



# CITTA' DI PALERMO

- SETTORE URBANISTICA -

## CENTRO POLIFUNZIONALE PER MINORI DA REALIZZARE IN LOCALITA' BONAGIA A PALERMO

### Progetto Esecutivo

#### *Progettisti incaricati*

Raggruppamento tecnico temporaneo tra  
Studio Tecnico degli Ingegneri  
Luigi Palizzolo e Ivan Torretta

e  
Ing. Salvo Mortellaro

*Responsabile Unico del Procedimento*

Ing. Luigi Di Lorenzo



### 4. PROGETTO - STRUTTURE

ELABORATO N.

4.3

SCALA

AGGIORNATO IL

Tabulato di Calcolo Struttura

Per il Raggruppamento

**Ing. Ivan Torretta**

Ordine degli Ingegneri della

Provincia di Palermo

n. 5091

## RELAZIONE ILLUSTRATIVA:

### 1. INDIVIDUAZIONE DEL MODELLO DI CALCOLO

#### 1.1 DESCRIZIONE GENERALE DELL'OPERA

Oggetto della presente relazione e' l'analisi delle sollecitazioni ed il calcolo della struttura in cemento armato ordinario da realizzarsi in:

Comune di Palermo  
Via del Segugio - Località Bonagia  
Proprietà Comune di Palermo

Destinazione dell'opera: Centro Polifunzionale per Minori

La struttura e' composta dai seguenti elementi, previsti in calcestruzzo gettato in opera:

FONDAZIONI: Travi rovesce e platea

TRAVI: Travi a sezione rettangolare 30x40 cm

PILASTRI: Pilastri a sezione rettangolare 30x50 cm

SOLAI: Solai latero-cementizi gettati in opera con travetti prefabbricati precompressi di altezza 16+4 cm

#### 1.2 NORMATIVE DI RIFERIMENTO

L'analisi della struttura in oggetto e' stata fatta utilizzando i metodi usuali della Scienza delle Costruzioni ed in conformita' alle normative e leggi vigenti:

- Legge 5/11/1971 n. 1086: Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso ed a struttura metallica.

- Legge 2/2/1974 n. 64: Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.

- D.M. 14/1/2008: Norme tecniche per le costruzioni.

#### 1.3 CRITERI DI ANALISI DELLA SICUREZZA

Con riferimento alle normative precedentemente citate, le strutture in oggetto sono verificate per quanto riguarda:

- verifica di resistenza;
- verifica a deformazione e fessurazione.

Calcestruzzo per le strutture in elevazione: classe 20/25 con  $R_{ck} > 25$  MPa

Acciaio in barre : B450A e B450C controllato in stabilimento

#### 1.4 SCHEMATIZZAZIONE DELLA STRUTTURA E DEI VINCOLI

La struttura e' stata schematizzata escludendo il contributo degli elementi aventi rigidità e resistenza trascurabili a fronte dei principali. E' quindi stata considerata l'orditura a telaio tridimensionale, i solai ed i setti verticali ad elevata rigidità (vano ascensore, setti in cls).

Le travi di fondazione sono schematizzate come poggianti su vincoli elastici distribuiti.

#### 1.5 MODELLAZIONE DELLA STRUTTURA E DEI VINCOLI

La struttura e' modellata con il metodo degli elementi finiti, applicato a sistemi tridimensionali. Gli elementi utilizzati sono sia monodimensionali (trave con eventuali sconnessioni interne), che bidimensionali (piastre e membrane triangolari e quadrangolari). I vincoli sono considerati puntuali ed inseriti tramite le sei costanti di rigidità elastica, oppure come elementi asta poggianti su suolo elastico. Le sezioni oggetto di verifica nelle travi sono stampate a passo costante; dei gusci si conoscono le sollecitazioni nel baricentro dell'elemento stesso.

#### 1.6 SCHEMATIZZAZIONE DELLE AZIONI

In accordo con le sopracitate normative, sono state considerate nei calcoli le seguenti azioni:

- pesi propri strutturali
- carichi permanenti portati dalla struttura
- carichi variabili sui solai, neve, vento.
- forze di piano simulanti il sisma, ricavate tramite analisi statica/dinamica
- distorsioni termiche

Le condizioni ed i casi di carico prese in conto nei calcoli sono specificate nella stampa dei dati di input.

## 1.7 MODELLAZIONE DELLE AZIONI

Sono stati adottati i seguenti valori di carico:

- peso proprio solette: 260 daN/m<sup>2</sup>
- carico permanente di piano: 240 daN/m<sup>2</sup>
- carico permanente di copertura: 160 daN/m<sup>2</sup>
- carico permanente scala: 160 daN/m<sup>2</sup>
- carico variabile di piano: 300 daN/m<sup>2</sup>
- carico variabile di copertura praticabile: 300 daN/m<sup>2</sup>
- carico variabile di copertura non praticabile: 50 daN/m<sup>2</sup>
- carico variabile scala: 400 daN/m<sup>2</sup>
- neve: 50 daN/m<sup>2</sup>
- vento massimo sulle pareti: 71 daN/m<sup>2</sup>

Le azioni sono state modellate tramite opportuni carichi concentrati e distribuiti su nodi ed aste.

## 1.8 MODELLAZIONE DEI MATERIALI

I materiali costituenti la struttura sono considerati elastici e con comportamento lineare. Le loro caratteristiche sono specificate nella stampa dei dati di input.

## 1.9 TIPO DI ANALISI

Le analisi strutturali condotte sono statiche in regime lineare. Il metodo di calcolo è ad elementi finiti. Il calcolo sismico è stato effettuato tramite analisi statica e dinamica. La verifica delle membrature in cemento armato viene eseguita considerando tutte le caratteristiche di sollecitazione.

## 2. INDIVIDUAZIONE DEL CODICE DI CALCOLO

### 2.1 CARATTERISTICHE DEL CODICE DI CALCOLO

Per il calcolo delle sollecitazioni e per la verifica di travi e pilastri in cemento armato si è fatto ricorso all'elaboratore elettronico utilizzando il seguente programma di calcolo: DOLMEN WIN (R), versione 10 del 2010 prodotto, distribuito ed assistito dalla CDM DOLMEN srl, con sede in Torino, Via Drovetti 9/F.

Questa procedura è sviluppata in ambiente windows, ed è stata scritta utilizzando i linguaggi Fortran e C. DOLMEN WIN permette l'analisi elastica lineare di strutture tridimensionali con nodi a sei gradi di libertà utilizzando un solutore ad elementi finiti. Gli elementi considerati sono la trave, con eventuali svincoli interni o rotazione attorno al proprio asse, ed il guscio, sia rettangolare che triangolare, avente comportamento di membrana e di piastra. I carichi possono essere applicati sia ai nodi, come forze o coppie concentrate, sia sulle travi, come forze distribuite, trapezie, concentrate, come coppie e come distorsioni termiche. I vincoli sono forniti tramite le sei costanti di rigidità elastica.

A supporto del programma è fornito un ampio manuale d'uso contenente fra l'altro una vasta serie di test di validazione sia su esempi classici di Scienza delle Costruzioni, sia su strutture particolarmente impegnative e reperibili nella bibliografia specializzata.

### 2.2 GRADO DI AFFIDABILITÀ DEL CODICE

L'affidabilità del codice di calcolo è garantita dall'esistenza di un'ampia documentazione di supporto, come indicato nel paragrafo precedente. La presenza di un modulo CAD per l'introduzione di dati permette la visualizzazione dettagliata degli elementi introdotti. È possibile inoltre ottenere rappresentazioni grafiche di deformate e sollecitazioni della struttura. Al termine dell'elaborazione viene inoltre valutata la qualità della soluzione, in base all'uguaglianza del lavoro esterno e dell'energia di deformazione.

### 2.3 MOTIVAZIONE DELLA SCELTA DEL CODICE

DOLMEN WIN permette in campo elastico lineare un'analisi dettagliata del comportamento dell'intera struttura, tenendo conto del comportamento irrigidente di setti anche complessi e solai considerati con la loro effettiva rigidità. È possibile inoltre scegliere il grado di affinamento dell'analisi di elementi complessi utilizzando mesh via via più dettagliate.

## 3. ESAME DEI RISULTATI E CONTROLLI

### 3.1 VALUTAZIONE DELLA CORRETTEZZA DEL MODELLO

Il modello di calcolo adottato è da ritenersi appropriato in quanto non sono state riscontrate labilità, le reazioni vincolari equilibrano i carichi applicati, la simmetria di carichi e struttura da origine a sollecitazioni simmetriche.

### 4. GIUDIZIO MOTIVATO DI ACCETTABILITÀ DEI RISULTATI

L'analisi critica dei risultati e dei parametri di controllo nonché il confronto con calcolazioni di massima eseguite manualmente porta ad confermare la validità dei risultati.

## DATI STRUTTURA:

Unita` di misura :  
 LUNGHEZZE : cm  
 SUPERFICI : cm2  
 DATI SEZIONALI : cm  
 ANGOLI : gradi  
 FORZE : daN  
 MOMENTI : daNcm  
 CARICHI LINEARI : daN/cm  
 CARICHI SUPERFIC.: daN/cm2  
 TENSIONI : daN/cm2  
 PESI DI VOLUME : daN/cm3  
 COEFF. DI WINKLER: daN/cm3  
 RIGIDENZE VINCOL.: daN/cm - daNcm/rad

NODI--	-----	-----	-----	-----	num.=
Nome	Coord. X	Coord. Y	Coord. Z		
1	870.000	-930.000	-230.000		
2	998.333	-930.000	-230.000		
3	1126.667	-930.000	-230.000		
4	1255.000	-930.000	-230.000		
5	1376.250	-930.000	-230.000		
6	1497.500	-930.000	-230.000		
7	1618.750	-930.000	-230.000		
8	1740.000	-930.000	-230.000		
9	870.000	-816.250	-230.000		
10	1740.000	-816.250	-230.000		
11	870.000	-702.500	-230.000		
12	1740.000	-702.500	-230.000		
13	870.000	-588.750	-230.000		
14	1740.000	-588.750	-230.000		
15	870.000	-475.000	-230.000		
16	1255.000	-475.000	-230.000		
17	1740.000	-475.000	-230.000		
18	870.000	-356.250	-230.000		
19	1740.000	-356.250	-230.000		
20	870.000	-237.500	-230.000		
21	1740.000	-237.500	-230.000		
22	870.000	-118.750	-230.000		
23	1740.000	-118.750	-230.000		
24	0.000	0.000	-230.000		
25	116.250	0.000	-230.000		
26	232.500	0.000	-230.000		
27	348.750	0.000	-230.000		
28	465.000	0.000	-230.000		
29	566.250	0.000	-230.000		
30	667.500	0.000	-230.000		
31	768.750	0.000	-230.000		
32	870.000	0.000	-230.000		
33	1255.000	0.000	-230.000		
34	1410.000	0.000	-230.000		
35	1740.000	0.000	-230.000		
36	1856.250	0.000	-230.000		
37	1972.500	0.000	-230.000		
38	2088.750	0.000	-230.000		
39	2205.000	0.000	-230.000		
40	2313.750	0.000	-230.000		
41	2422.500	0.000	-230.000		
42	2531.250	0.000	-230.000		
43	2640.000	0.000	-230.000		
44	2741.250	0.000	-230.000		
45	2842.500	0.000	-230.000		
46	2943.750	0.000	-230.000		
47	3045.000	0.000	-230.000		
48	3153.750	0.000	-230.000		
49	3262.500	0.000	-230.000		
50	3371.250	0.000	-230.000		
51	3480.000	0.000	-230.000		
52	3588.750	0.000	-230.000		
53	3697.500	0.000	-230.000		
54	3806.250	0.000	-230.000		
55	3915.000	0.000	-230.000		
56	4026.667	0.000	-230.000		
57	4138.333	0.000	-230.000		
58	4250.000	0.000	-230.000		
59	0.000	100.000	-230.000		
60	4250.000	100.000	-230.000		
61	1035.500	165.500	-230.000		
62	1140.500	165.500	-230.000		
63	1245.500	165.500	-230.000		
64	0.000	200.000	-230.000		
65	4250.000	200.000	-230.000		
66	1035.500	258.000	-230.000		
67	1245.500	258.000	-230.000		
68	0.000	300.000	-230.000		
69	4250.000	300.000	-230.000		

70	1035.500	350.500	-230.000
71	1140.500	350.500	-230.000
72	1245.500	350.500	-230.000
73	0.000	400.000	-230.000
74	465.000	400.000	-230.000
75	870.000	400.000	-230.000
76	1410.000	400.000	-230.000
77	1740.000	400.000	-230.000
78	2205.000	400.000	-230.000
79	2640.000	400.000	-230.000
80	3045.000	400.000	-230.000
81	3480.000	400.000	-230.000
82	3915.000	400.000	-230.000
83	4250.000	400.000	-230.000
84	0.000	499.167	-230.000
85	4250.000	499.167	-230.000
86	0.000	598.333	-230.000
87	4250.000	598.333	-230.000
88	0.000	697.500	-230.000
89	4250.000	697.500	-230.000
90	0.000	796.667	-230.000
91	4250.000	796.667	-230.000
92	0.000	895.833	-230.000
93	4250.000	895.833	-230.000
94	0.000	995.000	-230.000
95	116.250	995.000	-230.000
96	232.500	995.000	-230.000
97	348.750	995.000	-230.000
98	465.000	995.000	-230.000
99	566.250	995.000	-230.000
100	667.500	995.000	-230.000
101	768.750	995.000	-230.000
102	870.000	995.000	-230.000
103	976.250	995.000	-230.000
104	1082.500	995.000	-230.000
105	1188.750	995.000	-230.000
106	1295.000	995.000	-230.000
107	1304.559	995.000	-230.000
108	1410.000	995.000	-230.000
109	1740.000	995.000	-230.000
110	2175.000	995.000	-230.000
111	2205.000	995.000	-230.000
112	2222.351	995.000	-230.000
113	2225.000	995.000	-230.000
114	2328.750	995.000	-230.000
115	2432.500	995.000	-230.000
116	2536.250	995.000	-230.000
117	2640.000	995.000	-230.000
118	2741.250	995.000	-230.000
119	2842.500	995.000	-230.000
120	2943.750	995.000	-230.000
121	3045.000	995.000	-230.000
122	3153.750	995.000	-230.000
123	3262.500	995.000	-230.000
124	3371.250	995.000	-230.000
125	3480.000	995.000	-230.000
126	3588.750	995.000	-230.000
127	3697.500	995.000	-230.000
128	3806.250	995.000	-230.000
129	3915.000	995.000	-230.000
130	4026.667	995.000	-230.000
131	4138.333	995.000	-230.000
132	4250.000	995.000	-230.000
133	1325.639	1100.495	-230.000
134	2246.891	1117.815	-230.000
135	1346.719	1205.991	-230.000
136	2271.432	1240.630	-230.000
137	1367.799	1311.486	-230.000
138	2288.577	1326.433	-230.000
139	1807.601	1333.312	-230.000
140	2305.723	1412.237	-230.000
141	1388.879	1416.981	-230.000
142	2322.868	1498.041	-230.000
143	1406.024	1502.785	-230.000
144	2340.013	1583.845	-230.000
145	1423.170	1588.589	-230.000
146	2224.056	1607.015	-230.000
147	2108.098	1630.186	-230.000
148	1992.140	1653.357	-230.000
149	1440.315	1674.392	-230.000
150	1876.183	1676.527	-230.000
151	1771.502	1697.444	-230.000
152	1666.821	1718.362	-230.000
153	1562.141	1739.279	-230.000
154	1457.460	1760.196	-230.000
155	2175.000	995.000	-172.500
156	2205.000	995.000	-172.500
157	870.000	-930.000	-115.000

158	998.333	-930.000	-115.000
159	1126.667	-930.000	-115.000
160	1255.000	-930.000	-115.000
161	1376.250	-930.000	-115.000
162	1497.500	-930.000	-115.000
163	1618.750	-930.000	-115.000
164	1740.000	-930.000	-115.000
165	870.000	-816.250	-115.000
166	1740.000	-816.250	-115.000
167	870.000	-702.500	-115.000
168	1740.000	-702.500	-115.000
169	870.000	-588.750	-115.000
170	1740.000	-588.750	-115.000
171	870.000	-475.000	-115.000
172	1740.000	-475.000	-115.000
173	870.000	-356.250	-115.000
174	1740.000	-356.250	-115.000
175	870.000	-237.500	-115.000
176	1740.000	-237.500	-115.000
177	870.000	-118.750	-115.000
178	1740.000	-118.750	-115.000
179	0.000	0.000	-115.000
180	116.250	0.000	-115.000
181	232.500	0.000	-115.000
182	348.750	0.000	-115.000
183	465.000	0.000	-115.000
184	566.250	0.000	-115.000
185	667.500	0.000	-115.000
186	768.750	0.000	-115.000
187	870.000	0.000	-115.000
188	1255.000	0.000	-115.000
189	1410.000	0.000	-115.000
190	1740.000	0.000	-115.000
191	1856.250	0.000	-115.000
192	1972.500	0.000	-115.000
193	2088.750	0.000	-115.000
194	2205.000	0.000	-115.000
195	2313.750	0.000	-115.000
196	2422.500	0.000	-115.000
197	2531.250	0.000	-115.000
198	2640.000	0.000	-115.000
199	2741.250	0.000	-115.000
200	2842.500	0.000	-115.000
201	2943.750	0.000	-115.000
202	3045.000	0.000	-115.000
203	3153.750	0.000	-115.000
204	3262.500	0.000	-115.000
205	3371.250	0.000	-115.000
206	3480.000	0.000	-115.000
207	3588.750	0.000	-115.000
208	3697.500	0.000	-115.000
209	3806.250	0.000	-115.000
210	3915.000	0.000	-115.000
211	4026.667	0.000	-115.000
212	4138.333	0.000	-115.000
213	4250.000	0.000	-115.000
214	0.000	100.000	-115.000
215	4250.000	100.000	-115.000
216	1035.500	165.500	-115.000
217	1140.500	165.500	-115.000
218	1245.500	165.500	-115.000
219	0.000	200.000	-115.000
220	4250.000	200.000	-115.000
221	1035.500	258.000	-115.000
222	1245.500	258.000	-115.000
223	0.000	300.000	-115.000
224	4250.000	300.000	-115.000
225	1035.500	350.500	-115.000
226	1140.500	350.500	-115.000
227	1245.500	350.500	-115.000
228	0.000	400.000	-115.000
229	4250.000	400.000	-115.000
230	0.000	499.167	-115.000
231	4250.000	499.167	-115.000
232	0.000	598.333	-115.000
233	4250.000	598.333	-115.000
234	0.000	697.500	-115.000
235	4250.000	697.500	-115.000
236	0.000	796.667	-115.000
237	4250.000	796.667	-115.000
238	0.000	895.833	-115.000
239	4250.000	895.833	-115.000
240	0.000	995.000	-115.000
241	116.250	995.000	-115.000
242	232.500	995.000	-115.000
243	348.750	995.000	-115.000
244	465.000	995.000	-115.000
245	566.250	995.000	-115.000

246	667.500	995.000	-115.000
247	768.750	995.000	-115.000
248	870.000	995.000	-115.000
249	976.250	995.000	-115.000
250	1082.500	995.000	-115.000
251	1188.750	995.000	-115.000
252	1295.000	995.000	-115.000
253	1304.559	995.000	-115.000
254	1410.000	995.000	-115.000
255	2175.000	995.000	-115.000
256	2205.000	995.000	-115.000
257	2222.351	995.000	-115.000
258	2225.000	995.000	-115.000
259	2328.750	995.000	-115.000
260	2432.500	995.000	-115.000
261	2536.250	995.000	-115.000
262	2640.000	995.000	-115.000
263	2741.250	995.000	-115.000
264	2842.500	995.000	-115.000
265	2943.750	995.000	-115.000
266	3045.000	995.000	-115.000
267	3153.750	995.000	-115.000
268	3262.500	995.000	-115.000
269	3371.250	995.000	-115.000
270	3480.000	995.000	-115.000
271	3588.750	995.000	-115.000
272	3697.500	995.000	-115.000
273	3806.250	995.000	-115.000
274	3915.000	995.000	-115.000
275	4026.667	995.000	-115.000
276	4138.333	995.000	-115.000
277	4250.000	995.000	-115.000
278	1325.639	1100.495	-115.000
279	2246.891	1117.815	-115.000
280	1346.719	1205.991	-115.000
281	2271.432	1240.630	-115.000
282	1367.799	1311.486	-115.000
283	2288.577	1326.433	-115.000
284	2305.723	1412.237	-115.000
285	1388.879	1416.981	-115.000
286	2322.868	1498.041	-115.000
287	1406.024	1502.785	-115.000
288	2340.013	1583.845	-115.000
289	1423.170	1588.589	-115.000
290	2224.056	1607.015	-115.000
291	2108.098	1630.186	-115.000
292	1992.140	1653.357	-115.000
293	1440.315	1674.392	-115.000
294	1876.183	1676.527	-115.000
295	1771.502	1697.444	-115.000
296	1666.821	1718.362	-115.000
297	1562.141	1739.279	-115.000
298	1457.460	1760.196	-115.000
299	2175.000	995.000	-57.500
300	2205.000	995.000	-57.500
301	870.000	-930.000	0.000
302	998.333	-930.000	0.000
303	1126.667	-930.000	0.000
304	1255.000	-930.000	0.000
305	1376.250	-930.000	0.000
306	1497.500	-930.000	0.000
307	1618.750	-930.000	0.000
308	1740.000	-930.000	0.000
309	870.000	-816.250	0.000
310	1740.000	-816.250	0.000
311	870.000	-702.500	0.000
312	1740.000	-702.500	0.000
313	870.000	-588.750	0.000
314	1740.000	-588.750	0.000
315	870.000	-475.000	0.000
316	1255.000	-475.000	0.000
317	1740.000	-475.000	0.000
318	870.000	-356.250	0.000
319	1740.000	-356.250	0.000
320	870.000	-237.500	0.000
321	1740.000	-237.500	0.000
322	870.000	-118.750	0.000
323	1740.000	-118.750	0.000
324	0.000	0.000	0.000
325	116.250	0.000	0.000
326	232.500	0.000	0.000
327	348.750	0.000	0.000
328	465.000	0.000	0.000
329	566.250	0.000	0.000
330	667.500	0.000	0.000
331	768.750	0.000	0.000
332	870.000	0.000	0.000
333	1255.000	0.000	0.000

334	1410.000	0.000	0.000
335	1740.000	0.000	0.000
336	1856.250	0.000	0.000
337	1972.500	0.000	0.000
338	2088.750	0.000	0.000
339	2205.000	0.000	0.000
340	2313.750	0.000	0.000
341	2422.500	0.000	0.000
342	2531.250	0.000	0.000
343	2640.000	0.000	0.000
344	2741.250	0.000	0.000
345	2842.500	0.000	0.000
346	2943.750	0.000	0.000
347	3045.000	0.000	0.000
348	3153.750	0.000	0.000
349	3262.500	0.000	0.000
350	3371.250	0.000	0.000
351	3480.000	0.000	0.000
352	3588.750	0.000	0.000
353	3697.500	0.000	0.000
354	3806.250	0.000	0.000
355	3915.000	0.000	0.000
356	4026.667	0.000	0.000
357	4138.333	0.000	0.000
358	4250.000	0.000	0.000
359	0.000	100.000	0.000
360	4250.000	100.000	0.000
361	1035.500	165.500	0.000
362	1140.500	165.500	0.000
363	1245.500	165.500	0.000
364	0.000	200.000	0.000
365	4250.000	200.000	0.000
366	1035.500	258.000	0.000
367	1245.500	258.000	0.000
368	0.000	300.000	0.000
369	4250.000	300.000	0.000
370	1035.500	350.500	0.000
371	1140.500	350.500	0.000
372	1245.500	350.500	0.000
373	1410.000	350.500	0.000
374	0.000	400.000	0.000
375	465.000	400.000	0.000
376	870.000	400.000	0.000
377	1410.000	400.000	0.000
378	1740.000	400.000	0.000
379	2205.000	400.000	0.000
380	2640.000	400.000	0.000
381	3045.000	400.000	0.000
382	3480.000	400.000	0.000
383	3915.000	400.000	0.000
384	4095.000	400.000	0.000
385	4250.000	400.000	0.000
386	0.000	499.167	0.000
387	4250.000	499.167	0.000
388	0.000	598.333	0.000
389	4250.000	598.333	0.000
390	0.000	697.500	0.000
391	4250.000	697.500	0.000
392	0.000	796.667	0.000
393	4250.000	796.667	0.000
394	0.000	895.833	0.000
395	4250.000	895.833	0.000
396	0.000	995.000	0.000
397	116.250	995.000	0.000
398	232.500	995.000	0.000
399	348.750	995.000	0.000
400	465.000	995.000	0.000
401	566.250	995.000	0.000
402	667.500	995.000	0.000
403	768.750	995.000	0.000
404	870.000	995.000	0.000
405	976.250	995.000	0.000
406	1082.500	995.000	0.000
407	1188.750	995.000	0.000
408	1295.000	995.000	0.000
409	1304.559	995.000	0.000
410	1410.000	995.000	0.000
411	1740.000	995.000	0.000
412	2175.000	995.000	0.000
413	2205.000	995.000	0.000
414	2222.351	995.000	0.000
415	2225.000	995.000	0.000
416	2328.750	995.000	0.000
417	2432.500	995.000	0.000
418	2536.250	995.000	0.000
419	2640.000	995.000	0.000
420	2741.250	995.000	0.000
421	2842.500	995.000	0.000



422	2943.750	995.000	0.000
423	3045.000	995.000	0.000
424	3153.750	995.000	0.000
425	3262.500	995.000	0.000
426	3371.250	995.000	0.000
427	3480.000	995.000	0.000
428	3588.750	995.000	0.000
429	3697.500	995.000	0.000
430	3806.250	995.000	0.000
431	3915.000	995.000	0.000
432	4026.667	995.000	0.000
433	4138.333	995.000	0.000
434	4250.000	995.000	0.000
435	1325.639	1100.495	0.000
436	2246.891	1117.815	0.000
437	1346.719	1205.991	0.000
438	2271.432	1240.630	0.000
439	1367.799	1311.486	0.000
440	2288.577	1326.433	0.000
441	1807.601	1333.312	0.000
442	2305.723	1412.237	0.000
443	1388.879	1416.981	0.000
444	2322.868	1498.041	0.000
445	1406.024	1502.785	0.000
446	2340.013	1583.845	0.000
447	1423.170	1588.589	0.000
448	2224.056	1607.015	0.000
449	2108.098	1630.186	0.000
450	1992.140	1653.357	0.000
451	1440.315	1674.392	0.000
452	1876.183	1676.527	0.000
453	1771.502	1697.444	0.000
454	1666.821	1718.362	0.000
455	1562.141	1739.279	0.000
456	1457.460	1760.196	0.000
457	1245.500	258.000	69.000
458	2175.000	995.000	87.500
459	2205.000	995.000	87.500
460	2215.000	995.000	87.500
461	2225.000	995.000	87.500
462	1245.500	0.000	138.000
463	1255.000	0.000	138.000
464	1410.000	0.000	138.000
465	1245.500	165.500	138.000
466	1410.000	165.500	138.000
467	1255.000	0.000	175.000
468	1410.000	0.000	175.000
469	1035.500	165.500	175.000
470	1140.500	165.500	175.000
471	1187.079	165.500	175.000
472	1245.500	165.500	175.000
473	1035.500	258.000	175.000
474	1245.500	258.000	175.000
475	1035.500	350.500	175.000
476	1140.500	350.500	175.000
477	1245.500	350.500	175.000
478	1295.000	995.000	175.000
479	1304.559	995.000	175.000
480	1410.000	995.000	175.000
481	2175.000	995.000	175.000
482	2205.000	995.000	175.000
483	2222.351	995.000	175.000
484	2225.000	995.000	175.000
485	3915.000	815.000	180.000
486	4070.000	815.000	180.000
487	4095.000	815.000	180.000
488	4250.000	815.000	180.000
489	3915.000	995.000	180.000
490	4070.000	995.000	180.000
491	4095.000	995.000	180.000
492	4250.000	995.000	180.000
493	1140.500	165.500	204.500
494	2175.000	995.000	262.500
495	2205.000	995.000	262.500
496	2215.000	995.000	262.500
497	2225.000	995.000	262.500
498	870.000	0.000	271.000
499	1035.500	0.000	271.000
500	870.000	165.500	271.000
501	1035.500	165.500	271.000
502	1035.500	258.000	329.227
503	870.000	-930.000	350.000
504	1255.000	-930.000	350.000
505	1740.000	-930.000	350.000
506	870.000	-475.000	350.000
507	1255.000	-475.000	350.000
508	1740.000	-475.000	350.000
509	0.000	0.000	350.000

510	465.000	0.000	350.000
511	870.000	0.000	350.000
512	1255.000	0.000	350.000
513	1410.000	0.000	350.000
514	1740.000	0.000	350.000
515	2205.000	0.000	350.000
516	2640.000	0.000	350.000
517	3045.000	0.000	350.000
518	3480.000	0.000	350.000
519	3915.000	0.000	350.000
520	4250.000	0.000	350.000
521	1035.500	165.500	350.000
522	1140.500	165.500	350.000
523	1245.500	165.500	350.000
524	1035.500	258.000	350.000
525	1245.500	258.000	350.000
526	870.000	291.000	350.000
527	1035.500	291.000	350.000
528	1035.500	350.500	350.000
529	1140.500	350.500	350.000
530	1245.500	350.500	350.000
531	1410.000	350.500	350.000
532	0.000	400.000	350.000
533	465.000	400.000	350.000
534	870.000	400.000	350.000
535	1410.000	400.000	350.000
536	1740.000	400.000	350.000
537	2205.000	400.000	350.000
538	2640.000	400.000	350.000
539	3045.000	400.000	350.000
540	3480.000	400.000	350.000
541	3915.000	400.000	350.000
542	4070.000	400.000	350.000
543	4095.000	400.000	350.000
544	4250.000	400.000	350.000
545	0.000	995.000	350.000
546	465.000	995.000	350.000
547	870.000	995.000	350.000
548	1295.000	995.000	350.000
549	1304.559	995.000	350.000
550	1410.000	995.000	350.000
551	1740.000	995.000	350.000
552	2175.000	995.000	350.000
553	2205.000	995.000	350.000
554	2222.351	995.000	350.000
555	2225.000	995.000	350.000
556	2640.000	995.000	350.000
557	3045.000	995.000	350.000
558	3480.000	995.000	350.000
559	3915.000	995.000	350.000
560	4250.000	995.000	350.000
561	2271.432	1240.630	350.000
562	1807.601	1333.312	350.000
563	1388.879	1416.981	350.000
564	2340.013	1583.845	350.000
565	1876.183	1676.527	350.000
566	1457.460	1760.196	350.000
567	1245.500	258.000	419.000
568	2175.000	995.000	437.500
569	2205.000	995.000	437.500
570	2215.000	995.000	437.500
571	2225.000	995.000	437.500
572	1245.500	0.000	488.000
573	1410.000	0.000	488.000
574	1245.500	165.500	488.000
575	1410.000	165.500	488.000
576	1035.500	165.500	525.000
577	1140.500	165.500	525.000
578	1187.079	165.500	525.000
579	1245.500	165.500	525.000
580	1035.500	258.000	525.000
581	1245.500	258.000	525.000
582	1035.500	350.500	525.000
583	1140.500	350.500	525.000
584	1245.500	350.500	525.000
585	1295.000	995.000	525.000
586	1304.559	995.000	525.000
587	1410.000	995.000	525.000
588	2175.000	995.000	525.000
589	2205.000	995.000	525.000
590	2222.351	995.000	525.000
591	2225.000	995.000	525.000
592	3915.000	815.000	530.000
593	4070.000	815.000	530.000
594	4095.000	815.000	530.000
595	4250.000	815.000	530.000
596	3915.000	995.000	530.000
597	4070.000	995.000	530.000

598	4095.000	995.000	530.000
599	4250.000	995.000	530.000
600	1140.500	165.500	554.500
601	2175.000	995.000	612.500
602	2205.000	995.000	612.500
603	2215.000	995.000	612.500
604	2225.000	995.000	612.500
605	870.000	0.000	621.000
606	1035.500	0.000	621.000
607	870.000	165.500	621.000
608	1035.500	165.500	621.000
609	1035.500	258.000	679.227
610	0.000	0.000	700.000
611	465.000	0.000	700.000
612	870.000	0.000	700.000
613	1410.000	0.000	700.000
614	1740.000	0.000	700.000
615	2205.000	0.000	700.000
616	2640.000	0.000	700.000
617	3045.000	0.000	700.000
618	3480.000	0.000	700.000
619	3915.000	0.000	700.000
620	4250.000	0.000	700.000
621	1035.500	165.500	700.000
622	1140.500	165.500	700.000
623	1245.500	165.500	700.000
624	1035.500	258.000	700.000
625	1245.500	258.000	700.000
626	870.000	291.000	700.000
627	1035.500	291.000	700.000
628	1035.500	350.500	700.000
629	1140.500	350.500	700.000
630	1245.500	350.500	700.000
631	1410.000	350.500	700.000
632	0.000	400.000	700.000
633	465.000	400.000	700.000
634	870.000	400.000	700.000
635	1410.000	400.000	700.000
636	1740.000	400.000	700.000
637	2205.000	400.000	700.000
638	2640.000	400.000	700.000
639	3045.000	400.000	700.000
640	3480.000	400.000	700.000
641	3915.000	400.000	700.000
642	4070.000	400.000	700.000
643	4250.000	400.000	700.000
644	0.000	995.000	700.000
645	465.000	995.000	700.000
646	870.000	995.000	700.000
647	1295.000	995.000	700.000
648	1304.559	995.000	700.000
649	1410.000	995.000	700.000
650	1740.000	995.000	700.000
651	2175.000	995.000	700.000
652	2205.000	995.000	700.000
653	2222.351	995.000	700.000
654	2225.000	995.000	700.000
655	2640.000	995.000	700.000
656	3045.000	995.000	700.000
657	3480.000	995.000	700.000
658	3915.000	995.000	700.000
659	4250.000	995.000	700.000
660	2271.432	1240.630	700.000
661	1807.601	1333.312	700.000
662	1388.879	1416.981	700.000
663	2340.013	1583.845	700.000
664	1876.183	1676.527	700.000
665	1457.460	1760.196	700.000
666	1035.500	165.500	875.000
667	1140.500	165.500	875.000
668	1245.500	165.500	875.000
669	1035.500	258.000	875.000
670	1245.500	258.000	875.000
671	1035.500	350.500	875.000
672	1140.500	350.500	875.000
673	1245.500	350.500	875.000
674	0.000	0.000	1050.000
675	465.000	0.000	1050.000
676	870.000	0.000	1050.000
677	1410.000	0.000	1050.000
678	1740.000	0.000	1050.000
679	2205.000	0.000	1050.000
680	2640.000	0.000	1050.000
681	3045.000	0.000	1050.000
682	3480.000	0.000	1050.000
683	3915.000	0.000	1050.000
684	4250.000	0.000	1050.000
685	1035.500	165.500	1050.000

686	1140.500	165.500	1050.000
687	1245.500	165.500	1050.000
688	1035.500	258.000	1050.000
689	1245.500	258.000	1050.000
690	1035.500	350.500	1050.000
691	1140.500	350.500	1050.000
692	1245.500	350.500	1050.000
693	0.000	400.000	1050.000
694	465.000	400.000	1050.000
695	870.000	400.000	1050.000
696	1410.000	400.000	1050.000
697	1740.000	400.000	1050.000
698	2205.000	400.000	1050.000
699	2640.000	400.000	1050.000
700	3045.000	400.000	1050.000
701	3480.000	400.000	1050.000
702	3915.000	400.000	1050.000
703	4250.000	400.000	1050.000
704	0.000	995.000	1050.000
705	465.000	995.000	1050.000
706	870.000	995.000	1050.000
707	1410.000	995.000	1050.000
708	1740.000	995.000	1050.000
709	2205.000	995.000	1050.000
710	2640.000	995.000	1050.000
711	3045.000	995.000	1050.000
712	3480.000	995.000	1050.000
713	3915.000	995.000	1050.000
714	4250.000	995.000	1050.000
715	1035.500	165.500	1090.000
716	1140.500	165.500	1090.000
717	1245.500	165.500	1090.000
718	1035.500	258.000	1090.000
719	1245.500	258.000	1090.000
720	1035.500	350.500	1090.000
721	1140.500	350.500	1090.000
722	1245.500	350.500	1090.000

ASTE--	Proprieta'	Nodo iniz.	Nodo fin.	Rilasci in.	Rilasci fin.	num.=	Orient.
						809	
1	3	1	2				180.0
2	3	2	3				180.0
3	3	3	4				180.0
4	3	4	5				180.0
5	3	5	6				180.0
6	3	6	7				180.0
7	3	7	8				180.0
8	3	1	9				180.0
9	3	8	10				180.0
10	3	9	11				180.0
11	3	10	12				180.0
12	3	4	16				180.0
13	3	11	13				180.0
14	3	12	14				180.0
15	3	13	15				180.0
16	3	14	17				180.0
17	3	15	16				180.0
18	3	16	17				180.0
19	3	15	18				180.0
20	3	17	19				180.0
21	3	18	20				180.0
22	3	19	21				180.0
23	3	16	33				180.0
24	3	20	22				180.0
25	3	21	23				180.0
26	3	22	32				180.0
27	3	23	35				180.0
28	3	24	25				180.0
29	3	25	26				180.0
30	3	26	27				180.0
31	3	27	28				180.0
32	3	28	29				180.0
33	3	29	30				180.0
34	3	30	31				180.0
35	3	31	32				180.0
36	3	32	33				180.0
37	3	33	34				180.0
38	3	34	35				180.0
39	3	35	36				180.0
40	3	36	37				180.0
41	3	37	38				180.0
42	3	38	39				180.0
43	3	39	40				180.0
44	3	40	41				180.0
45	3	41	42				180.0
46	3	42	43				180.0
47	3	43	44				180.0
48	3	44	45				180.0

49	3	45	46	180.0
50	3	46	47	180.0
51	3	47	48	180.0
52	3	48	49	180.0
53	3	49	50	180.0
54	3	50	51	180.0
55	3	51	52	180.0
56	3	52	53	180.0
57	3	53	54	180.0
58	3	54	55	180.0
59	3	55	56	180.0
60	3	56	57	180.0
61	3	57	58	180.0
62	3	24	59	180.0
63	3	58	60	180.0
66	3	59	64	180.0
67	3	60	65	180.0
70	3	28	74	180.0
71	3	32	75	180.0
72	3	34	76	180.0
73	3	35	77	180.0
74	3	39	78	180.0
75	3	43	79	180.0
76	3	47	80	180.0
77	3	51	81	180.0
78	3	55	82	180.0
81	3	64	68	180.0
82	3	65	69	180.0
85	3	68	73	180.0
86	3	69	83	180.0
91	3	73	74	180.0
92	3	74	75	180.0
93	3	75	76	180.0
94	3	76	77	180.0
95	3	77	78	180.0
96	3	78	79	180.0
97	3	79	80	180.0
98	3	80	81	180.0
99	3	81	82	180.0
100	3	82	83	180.0
101	3	73	84	180.0
102	3	83	85	180.0
103	3	84	86	180.0
104	3	85	87	180.0
105	3	86	88	180.0
106	3	87	89	180.0
107	3	74	98	180.0
108	3	75	102	180.0
109	3	76	108	180.0
110	3	77	109	180.0
111	3	78	111	180.0
112	3	79	117	180.0
113	3	80	121	180.0
114	3	81	125	180.0
115	3	82	129	180.0
116	3	88	90	180.0
117	3	89	91	180.0
118	3	90	92	180.0
119	3	91	93	180.0
120	3	92	94	180.0
121	3	93	132	180.0
122	3	94	95	180.0
123	3	95	96	180.0
124	3	96	97	180.0
125	3	97	98	180.0
126	3	98	99	180.0
127	3	99	100	180.0
128	3	100	101	180.0
129	3	101	102	180.0
130	3	102	103	180.0
131	3	103	104	180.0
132	3	104	105	180.0
133	3	105	106	180.0
134	3	106	107	180.0
135	3	107	108	180.0
136	3	108	109	180.0
137	3	109	110	180.0
138	3	110	111	180.0
139	3	111	112	180.0
140	3	112	113	180.0
141	3	113	114	180.0
142	3	114	115	180.0
143	3	115	116	180.0
144	3	116	117	180.0
145	3	117	118	180.0
146	3	118	119	180.0
147	3	119	120	180.0
148	3	120	121	180.0

149	3	121	122	180.0
150	3	122	123	180.0
151	3	123	124	180.0
152	3	124	125	180.0
153	3	125	126	180.0
154	3	126	127	180.0
155	3	127	128	180.0
156	3	128	129	180.0
157	3	129	130	180.0
158	3	130	131	180.0
159	3	131	132	180.0
160	3	107	133	180.0
161	3	112	134	180.0
162	3	133	135	180.0
163	3	109	139	180.0
164	3	134	136	180.0
165	3	135	137	180.0
166	3	136	138	180.0
167	3	139	136	180.0
168	3	137	141	180.0
169	3	138	140	180.0
170	3	141	139	180.0
171	3	140	142	180.0
172	3	141	143	180.0
173	3	139	150	180.0
174	3	142	144	180.0
175	3	143	145	180.0
176	3	146	144	180.0
177	3	147	146	180.0
178	3	145	149	180.0
179	3	148	147	180.0
180	3	150	148	180.0
181	3	151	150	180.0
182	3	152	151	180.0
183	3	149	154	180.0
184	3	153	152	180.0
185	3	154	153	180.0
186	1	1	157	0.0
187	1	4	160	0.0
188	1	8	164	90.0
189	1	15	171	90.0
190	1	17	172	90.0
191	1	24	179	90.0
192	1	28	183	90.0
193	1	32	187	90.0
194	1	35	190	0.0
195	1	39	194	0.0
196	1	43	198	0.0
197	1	47	202	0.0
198	1	51	206	0.0
199	1	55	210	0.0
200	1	58	213	90.0
201	1	73	228	90.0
202	1	83	229	90.0
203	1	94	240	0.0
204	1	98	244	0.0
205	1	102	248	0.0
206	1	117	262	0.0
207	1	121	266	90.0
208	1	125	270	90.0
209	1	129	274	90.0
210	1	132	277	90.0
211	1	136	281	78.7
212	1	141	285	78.7
213	1	144	288	-11.3
214	1	150	294	-11.3
215	1	154	298	-11.3
216	1	16	316	0.0
217	1	74	375	90.0
218	1	75	376	90.0
219	1	76	377	90.0
220	1	77	378	90.0
221	1	78	379	90.0
222	1	79	380	90.0
223	1	80	381	90.0
224	1	81	382	90.0
225	1	82	383	90.0
226	1	109	411	0.0
227	1	139	441	78.7
228	1	157	301	0.0
229	1	160	304	0.0
230	1	164	308	90.0
231	1	171	315	90.0
232	1	172	317	90.0
233	1	179	324	90.0
234	1	183	328	90.0
235	1	187	332	90.0
236	1	190	335	0.0

237	1	194	339	0.0
238	1	198	343	0.0
239	1	202	347	0.0
240	1	206	351	0.0
241	1	210	355	0.0
242	1	213	358	90.0
243	1	228	374	90.0
244	1	229	385	90.0
245	1	240	396	0.0
246	1	244	400	0.0
247	1	248	404	0.0
248	1	262	419	0.0
249	1	266	423	90.0
250	1	270	427	90.0
251	1	274	431	90.0
252	1	277	434	90.0
253	1	281	438	78.7
254	1	285	443	78.7
255	1	288	446	-11.3
256	1	294	452	-11.3
257	1	298	456	-11.3
258	5	301	302	0.0
259	5	302	303	0.0
260	5	303	304	0.0
261	5	304	305	0.0
262	5	305	306	0.0
263	5	306	307	0.0
264	5	307	308	0.0
265	5	301	309	0.0
266	5	308	310	0.0
267	5	309	311	0.0
268	5	310	312	0.0
269	2	304	316	0.0
270	5	311	313	0.0
271	5	312	314	0.0
272	5	313	315	0.0
273	5	314	317	0.0
274	2	315	316	0.0
275	2	316	317	0.0
276	5	315	318	0.0
277	5	317	319	0.0
278	5	318	320	0.0
279	5	319	321	0.0
280	2	316	333	0.0
281	5	320	322	0.0
282	5	321	323	0.0
283	5	322	332	0.0
284	5	323	335	0.0
285	5	324	325	0.0
286	5	325	326	0.0
287	5	326	327	0.0
288	5	327	328	0.0
289	5	328	329	0.0
290	5	329	330	0.0
291	5	330	331	0.0
292	5	331	332	0.0
293	2	332	333	0.0
294	5	333	334	0.0
295	2	334	335	0.0
296	5	335	336	0.0
297	5	336	337	0.0
298	5	337	338	0.0
299	5	338	339	0.0
300	5	339	340	0.0
301	5	340	341	0.0
302	5	341	342	0.0
303	5	342	343	0.0
304	5	343	344	0.0
305	5	344	345	0.0
306	5	345	346	0.0
307	5	346	347	0.0
308	5	347	348	0.0
309	5	348	349	0.0
310	5	349	350	0.0
311	5	350	351	0.0
312	5	351	352	0.0
313	5	352	353	0.0
314	5	353	354	0.0
315	5	354	355	0.0
316	5	355	356	0.0
317	5	356	357	0.0
318	5	357	358	0.0
319	5	324	359	0.0
320	5	358	360	0.0
323	5	359	364	0.0
324	5	360	365	0.0
325	5	361	362	0.0
326	5	362	363	0.0

327	2	334	373	0.0
328	2	328	375	0.0
329	2	332	376	0.0
330	2	335	378	0.0
331	2	339	379	0.0
332	2	343	380	0.0
333	2	347	381	0.0
334	2	351	382	0.0
335	2	355	383	0.0
336	5	361	366	0.0
337	5	363	367	0.0
338	5	364	368	0.0
339	5	365	369	0.0
340	5	366	370	0.0
341	5	367	372	0.0
342	5	368	374	0.0
343	5	369	385	0.0
344	5	370	371	0.0
345	5	371	372	0.0
348	2	373	377	0.0
349	2	374	375	0.0
350	2	375	376	0.0
351	2	376	377	0.0
352	2	377	378	0.0
353	2	378	379	0.0
354	2	379	380	0.0
355	2	380	381	0.0
356	2	381	382	0.0
357	2	382	383	0.0
358	2	383	384	0.0
359	2	384	385	0.0
360	5	374	386	0.0
361	5	385	387	0.0
362	5	386	388	0.0
363	5	387	389	0.0
364	5	388	390	0.0
365	5	389	391	0.0
366	2	375	400	0.0
367	2	376	404	0.0
368	2	377	410	0.0
369	2	378	411	0.0
370	2	379	413	0.0
371	2	380	419	0.0
372	2	381	423	0.0
373	2	382	427	0.0
374	2	383	431	0.0
375	5	390	392	0.0
376	5	391	393	0.0
377	5	392	394	0.0
378	5	393	395	0.0
379	5	394	396	0.0
380	5	395	434	0.0
381	5	396	397	0.0
382	5	397	398	0.0
383	5	398	399	0.0
384	5	399	400	0.0
385	5	400	401	0.0
386	5	401	402	0.0
387	5	402	403	0.0
388	5	403	404	0.0
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390	5	405	406	0.0
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393	5	408	409	0.0
394	5	409	410	0.0
395	2	410	411	0.0
396	2	411	412	0.0
397	5	412	413	0.0
398	5	413	414	0.0
399	5	414	415	0.0
400	5	415	416	0.0
401	5	416	417	0.0
402	5	417	418	0.0
403	5	418	419	0.0
404	5	419	420	0.0
405	5	420	421	0.0
406	5	421	422	0.0
407	5	422	423	0.0
408	5	423	424	0.0
409	5	424	425	0.0
410	5	425	426	0.0
411	5	426	427	0.0
412	5	427	428	0.0
413	5	428	429	0.0
414	5	429	430	0.0
415	5	430	431	0.0
416	5	431	432	0.0



417	5	432	433	0.0
418	5	433	434	0.0
419	5	409	435	0.0
420	5	414	436	0.0
421	5	435	437	0.0
422	2	411	441	0.0
423	5	436	438	0.0
424	5	437	439	0.0
425	5	438	440	0.0
426	2	441	438	0.0
427	5	439	443	0.0
428	5	440	442	0.0
429	2	443	441	0.0
430	5	442	444	0.0
431	5	443	445	0.0
432	2	441	452	0.0
433	5	444	446	0.0
434	5	445	447	0.0
435	5	448	446	0.0
436	5	449	448	0.0
437	5	447	451	0.0
438	5	450	449	0.0
439	5	452	450	0.0
440	5	453	452	0.0
441	5	454	453	0.0
442	5	451	456	0.0
443	5	455	454	0.0
444	5	456	455	0.0
445	1	431	489	90.0
446	1	434	492	90.0
447	1	332	498	90.0
448	1	301	503	0.0
449	1	304	504	0.0
450	1	308	505	90.0
451	1	315	506	90.0
452	1	316	507	0.0
453	1	317	508	90.0
454	1	324	509	90.0
455	1	328	510	90.0
456	1	335	514	0.0
457	1	339	515	0.0
458	1	343	516	0.0
459	1	347	517	0.0
460	1	351	518	0.0
461	1	355	519	0.0
462	1	358	520	90.0
463	1	374	532	90.0
464	1	375	533	90.0
465	1	376	534	90.0
466	1	377	535	90.0
467	1	378	536	90.0
468	1	379	537	90.0
469	1	380	538	90.0
470	1	381	539	90.0
471	1	382	540	90.0
472	1	383	541	90.0
473	1	385	544	90.0
474	1	396	545	0.0
475	1	400	546	0.0
476	1	404	547	0.0
477	1	411	551	0.0
478	1	419	556	0.0
479	1	423	557	90.0
480	1	427	558	90.0
481	1	438	561	78.7
482	1	441	562	78.7
483	1	443	563	78.7
484	1	446	564	-11.3
485	1	452	565	-11.3
486	1	456	566	-11.3
487	2	489	490	0.0
488	2	490	491	0.0
489	2	491	492	0.0
490	1	489	559	90.0
491	1	492	560	90.0
492	1	498	511	90.0
493	2	503	504	0.0
494	2	504	505	0.0
495	2	503	506	0.0
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504	2	510	511	0.0

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525	2	519	541	0.0
526	2	520	544	0.0
527	5	521	524	0.0
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532	2	526	534	0.0
533	5	528	529	0.0
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537	2	533	534	0.0
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542	2	538	539	0.0
543	2	539	540	0.0
544	2	540	541	0.0
545	2	541	542	0.0
546	2	542	543	0.0
547	2	543	544	0.0
548	2	532	545	0.0
549	2	533	546	0.0
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553	2	537	553	0.0
554	2	538	556	0.0
555	2	539	557	0.0
556	2	540	558	0.0
557	2	541	559	0.0
558	2	544	560	0.0
559	2	545	546	0.0
560	2	546	547	0.0
561	2	547	548	0.0
562	5	548	549	0.0
563	5	549	550	0.0
564	2	550	551	0.0
565	2	551	552	0.0
566	5	552	553	0.0
567	5	553	554	0.0
568	5	554	555	0.0
569	2	555	556	0.0
570	2	556	557	0.0
571	2	557	558	0.0
572	2	558	559	0.0
573	2	554	561	0.0
574	2	551	562	0.0
575	2	549	563	0.0
576	2	562	561	0.0
577	2	563	562	0.0
578	2	561	564	0.0
579	2	562	565	0.0
580	2	563	566	0.0
581	2	565	564	0.0
582	2	566	565	0.0
583	1	513	573	0.0
584	1	559	596	90.0
585	1	560	599	90.0
586	1	511	605	90.0
587	1	509	610	90.0
588	1	510	611	90.0
589	1	514	614	0.0
590	1	515	615	0.0
591	1	516	616	0.0
592	1	517	617	0.0

593	1	518	618	0.0
594	1	519	619	0.0
595	1	520	620	90.0
596	1	532	632	90.0
597	1	533	633	90.0
598	1	534	634	90.0
599	1	535	635	90.0
600	1	536	636	90.0
601	1	537	637	90.0
602	1	538	638	90.0
603	1	539	639	90.0
604	1	540	640	90.0
605	1	541	641	90.0
606	1	544	643	90.0
607	1	545	644	0.0
608	1	546	645	0.0
609	1	547	646	0.0
610	1	551	650	0.0
611	1	556	655	0.0
612	1	557	656	90.0
613	1	558	657	90.0
614	1	561	660	78.7
615	1	562	661	78.7
616	1	563	662	78.7
617	1	564	663	-11.3
618	1	565	664	-11.3
619	1	566	665	-11.3
620	2	596	597	0.0
621	2	597	598	0.0
622	2	598	599	0.0
623	1	573	613	0.0
624	1	596	658	90.0
625	1	599	659	90.0
626	1	605	612	90.0
627	2	610	611	0.0
628	2	611	612	0.0
629	2	612	613	0.0
630	2	613	614	0.0
631	2	614	615	0.0
632	2	615	616	0.0
633	2	616	617	0.0
634	2	617	618	0.0
635	2	618	619	0.0
636	2	619	620	0.0
637	2	612	626	0.0
638	5	621	622	0.0
639	5	622	623	0.0
640	2	613	631	0.0
641	2	610	632	0.0
642	2	611	633	0.0
643	2	614	636	0.0
644	2	615	637	0.0
645	2	616	638	0.0
646	2	617	639	0.0
647	2	618	640	0.0
648	2	619	641	0.0
649	2	620	643	0.0
650	5	621	624	0.0
651	5	623	625	0.0
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653	5	625	630	0.0
654	5	627	628	0.0
655	2	626	634	0.0
656	5	628	629	0.0
657	5	629	630	0.0
658	2	631	635	0.0
659	2	632	633	0.0
660	2	633	634	0.0
661	2	634	635	0.0
662	2	635	636	0.0
663	2	636	637	0.0
664	2	637	638	0.0
665	2	638	639	0.0
666	2	639	640	0.0
667	2	640	641	0.0
668	2	641	642	0.0
669	2	642	643	0.0
670	2	632	644	0.0
671	2	633	645	0.0
672	2	634	646	0.0
673	2	635	649	0.0
674	2	636	650	0.0
675	2	637	652	0.0
676	2	638	655	0.0
677	2	639	656	0.0
678	2	640	657	0.0
679	2	641	658	0.0
680	2	643	659	0.0

681	2	644	645	0.0
682	2	645	646	0.0
683	2	646	647	0.0
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686	2	649	650	0.0
687	2	650	651	0.0
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693	2	656	657	0.0
694	2	657	658	0.0
695	2	653	660	0.0
696	2	650	661	0.0
697	2	648	662	0.0
698	2	661	660	0.0
699	2	662	661	0.0
700	2	660	663	0.0
701	2	661	664	0.0
702	2	662	665	0.0
703	2	664	663	0.0
704	2	665	664	0.0
705	1	610	674	90.0
706	1	611	675	90.0
707	1	612	676	90.0
708	1	613	677	0.0
709	1	614	678	0.0
710	1	615	679	0.0
711	1	616	680	0.0
712	1	617	681	0.0
713	1	618	682	0.0
714	1	619	683	0.0
715	1	620	684	90.0
716	1	632	693	90.0
717	1	633	694	90.0
718	1	634	695	90.0
719	1	635	696	90.0
720	1	636	697	90.0
721	1	637	698	90.0
722	1	638	699	90.0
723	1	639	700	90.0
724	1	640	701	90.0
725	1	641	702	90.0
726	1	643	703	90.0
727	1	644	704	0.0
728	1	645	705	0.0
729	1	646	706	0.0
730	1	649	707	0.0
731	1	650	708	0.0
732	1	652	709	0.0
733	1	655	710	0.0
734	1	656	711	90.0
735	1	657	712	90.0
736	1	658	713	90.0
737	1	659	714	90.0
738	2	674	675	0.0
739	2	675	676	0.0
740	2	676	677	0.0
741	2	677	678	0.0
742	2	678	679	0.0
743	2	679	680	0.0
744	2	680	681	0.0
745	2	681	682	0.0
746	2	682	683	0.0
747	2	683	684	0.0
750	5	685	686	0.0
751	5	686	687	0.0
752	2	674	693	0.0
753	2	675	694	0.0
754	2	676	695	0.0
755	2	677	696	0.0
756	2	678	697	0.0
757	2	679	698	0.0
758	2	680	699	0.0
759	2	681	700	0.0
760	2	682	701	0.0
761	2	683	702	0.0
762	2	684	703	0.0
763	5	685	688	0.0
764	5	687	689	0.0
765	5	688	690	0.0
766	5	689	692	0.0
767	5	690	691	0.0
768	5	691	692	0.0
771	2	693	694	0.0
772	2	694	695	0.0

773	2	695	696	0.0
774	2	696	697	0.0
775	2	697	698	0.0
776	2	698	699	0.0
777	2	699	700	0.0
778	2	700	701	0.0
779	2	701	702	0.0
780	2	702	703	0.0
781	2	693	704	0.0
782	2	694	705	0.0
783	2	695	706	0.0
784	2	696	707	0.0
785	2	697	708	0.0
786	2	698	709	0.0
787	2	699	710	0.0
788	2	700	711	0.0
789	2	701	712	0.0
790	2	702	713	0.0
791	2	703	714	0.0
792	2	704	705	0.0
793	2	705	706	0.0
794	2	706	707	0.0
795	2	707	708	0.0
796	2	708	709	0.0
797	2	709	710	0.0
798	2	710	711	0.0
799	2	711	712	0.0
800	2	712	713	0.0
801	2	713	714	0.0
802	5	715	716	0.0
803	5	716	717	0.0
804	5	715	718	0.0
805	5	717	719	0.0
806	5	718	720	0.0
807	5	719	722	0.0
808	5	720	721	0.0
809	5	721	722	0.0

GUSCI TRIANGOLARI--|-----|-----|-----|-----| num. = 130

Nome	Proprieta	Nodo 1	Nodo 2	Nodo 3
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3	3	32	61	62
4	3	62	63	33
5	3	32	61	66
6	3	63	67	34
7	3	66	62	61
8	3	67	63	62
9	3	75	66	32
10	3	34	76	67
11	3	66	71	62
12	3	62	67	71
13	3	66	71	70
14	3	71	67	72
15	3	70	66	75
16	3	67	76	72
17	3	75	71	70
18	3	72	76	71
19	3	71	76	75
20	2	111	156	110
21	2	156	112	111
22	2	156	113	112
23	2	110	156	155
121	2	113	156	258
163	2	155	156	256
164	2	256	255	155
165	2	256	257	156
166	2	257	258	156
167	2	256	300	255
168	2	300	257	256
169	2	257	258	300
170	2	255	300	299
268	2	258	300	415
310	2	299	300	413
311	2	413	412	299
312	2	413	414	300
313	2	300	415	414
314	4	367	372	457
315	6	372	373	457
319	4	362	363	465
320	4	465	367	363
321	4	361	362	470
323	4	367	457	465
324	6	457	466	373
325	4	457	372	477
333	4	465	471	362
334	6	466	465	457
335	4	469	470	361

336	4	362	471	470
337	4	465	457	472
341	6	465	463	462
342	6	463	464	466
343	6	463	466	465
344	4	457	474	472
345	4	474	477	457
346	6	462	465	471
348	4	472	465	471
352	4	470	493	469
353	4	470	471	493
355	4	501	469	473
356	4	469	493	501
360	4	473	502	475
361	4	471	472	523
362	4	493	523	471
363	6	501	493	499
364	4	501	502	473
374	4	522	493	501
375	4	527	502	475
376	6	502	501	500
377	4	475	528	527
378	4	522	523	493
382	4	501	502	521
383	6	500	502	526
384	4	501	521	522
385	4	521	524	502
386	4	502	527	524
387	6	526	502	527
389	6	529	530	535
390	6	535	531	530
392	4	525	530	567
393	6	530	531	567
397	4	522	523	574
398	4	574	525	523
399	4	521	522	577
400	4	524	527	582
401	4	582	528	527
402	4	525	567	574
403	6	567	575	531
404	4	567	530	584
411	4	574	578	522
412	6	575	574	567
413	4	576	577	521
414	4	522	578	577
415	4	580	582	524
416	4	574	567	579
421	4	567	581	579
422	4	581	584	567
423	6	572	574	578
424	4	579	574	578
428	4	577	600	576
429	4	577	578	600
431	4	608	576	580
432	4	576	600	608
436	4	580	609	582
437	4	578	579	623
438	4	600	623	578
439	6	608	600	606
440	4	608	609	580
449	4	622	600	608
450	4	627	609	582
451	6	609	608	607
452	4	582	628	627
453	4	622	623	600
457	4	608	609	621
458	6	607	609	626
459	4	608	621	622
460	4	621	624	609
461	4	609	627	624
462	6	626	609	627
464	6	629	630	635
465	6	635	631	630
467	4	624	627	671
468	4	671	628	627
476	4	669	671	624
493	4	718	716	715
494	4	716	717	719
495	4	716	721	718
496	4	721	719	716
497	4	720	721	718
498	4	719	722	721

GUSCI	RETTANGOLARI	----- ----- ----- ----- num.=				368
Nome	Proprieta	Nodo 1	Nodo 2	Nodo 3	Nodo 4	
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25	1	2	3	159	158	
26	1	3	4	160	159	

27	1	4	5	161	160
28	1	5	6	162	161
29	1	6	7	163	162
30	1	7	8	164	163
31	1	157	165	9	1
32	1	8	10	166	164
33	1	165	167	11	9
34	1	10	12	168	166
35	1	167	169	13	11
36	1	12	14	170	168
37	1	169	171	15	13
38	1	14	17	172	170
39	1	15	18	173	171
40	1	17	19	174	172
41	1	18	20	175	173
42	1	19	21	176	174
43	1	20	22	177	175
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45	1	22	32	187	177
46	1	23	35	190	178
47	1	24	25	180	179
48	1	25	26	181	180
49	1	26	27	182	181
50	1	27	28	183	182
51	1	28	29	184	183
52	1	29	30	185	184
53	1	30	31	186	185
54	1	31	32	187	186
55	2	33	34	189	188
56	1	35	36	191	190
57	1	36	37	192	191
58	1	37	38	193	192
59	1	38	39	194	193
60	1	39	40	195	194
61	1	40	41	196	195
62	1	41	42	197	196
63	1	42	43	198	197
64	1	43	44	199	198
65	1	44	45	200	199
66	1	45	46	201	200
67	1	46	47	202	201
68	1	47	48	203	202
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80	1	58	60	215	213
81	1	59	64	219	214
82	1	60	65	220	215
83	4	61	62	217	216
84	4	62	63	218	217
85	4	61	66	221	216
86	4	63	67	222	218
87	1	64	68	223	219
88	1	65	69	224	220
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91	1	68	73	228	223
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94	4	71	72	227	226
95	1	73	84	230	228
96	1	83	85	231	229
97	1	84	86	232	230
98	1	85	87	233	231
99	1	86	88	234	232
100	1	87	89	235	233
101	1	88	90	236	234
102	1	89	91	237	235
103	1	90	92	238	236
104	1	91	93	239	237
105	1	92	94	240	238
106	1	93	132	277	239
107	1	94	95	241	240
108	1	95	96	242	241
109	1	96	97	243	242
110	1	97	98	244	243
111	1	98	99	245	244
112	1	99	100	246	245
113	1	100	101	247	246
114	1	101	102	248	247

115	1	102	103	249	248
116	1	103	104	250	249
117	1	104	105	251	250
118	1	105	106	252	251
119	2	106	107	253	252
120	2	107	108	254	253
122	1	113	114	259	258
123	1	114	115	260	259
124	1	115	116	261	260
125	1	116	117	262	261
126	1	117	118	263	262
127	1	118	119	264	263
128	1	119	120	265	264
129	1	120	121	266	265
130	1	121	122	267	266
131	1	122	123	268	267
132	1	123	124	269	268
133	1	124	125	270	269
134	1	125	126	271	270
135	1	126	127	272	271
136	1	127	128	273	272
137	1	128	129	274	273
138	1	129	130	275	274
139	1	130	131	276	275
140	1	131	132	277	276
141	1	107	133	278	253
142	1	134	112	257	279
143	1	133	135	280	278
144	1	136	134	279	281
145	1	135	137	282	280
146	1	283	281	136	138
147	1	137	141	285	282
148	1	284	283	138	140
149	1	286	284	140	142
150	1	141	143	287	285
151	1	288	286	142	144
152	1	143	145	289	287
153	1	290	288	144	146
154	1	291	290	146	147
155	1	145	149	293	289
156	1	292	291	147	148
157	1	294	292	148	150
158	1	295	294	150	151
159	1	296	295	151	152
160	1	149	154	298	293
161	1	297	296	152	153
162	1	298	297	153	154
171	1	157	158	302	301
172	1	158	159	303	302
173	1	159	160	304	303
174	1	160	161	305	304
175	1	161	162	306	305
176	1	162	163	307	306
177	1	163	164	308	307
178	1	301	309	165	157
179	1	164	166	310	308
180	1	309	311	167	165
181	1	166	168	312	310
182	1	311	313	169	167
183	1	168	170	314	312
184	1	313	315	171	169
185	1	170	172	317	314
186	1	171	173	318	315
187	1	172	174	319	317
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189	1	174	176	321	319
190	1	175	177	322	320
191	1	176	178	323	321
192	1	177	187	332	322
193	1	178	190	335	323
194	1	179	180	325	324
195	1	180	181	326	325
196	1	181	182	327	326
197	1	182	183	328	327
198	1	183	184	329	328
199	1	184	185	330	329
200	1	185	186	331	330
201	1	186	187	332	331
202	2	188	189	334	333
203	1	190	191	336	335
204	1	191	192	337	336
205	1	192	193	338	337
206	1	193	194	339	338
207	1	194	195	340	339
208	1	195	196	341	340
209	1	196	197	342	341
210	1	197	198	343	342
211	1	198	199	344	343



212	1	199	200	345	344
213	1	200	201	346	345
214	1	201	202	347	346
215	1	202	203	348	347
216	1	203	204	349	348
217	1	204	205	350	349
218	1	205	206	351	350
219	1	206	207	352	351
220	1	207	208	353	352
221	1	208	209	354	353
222	1	209	210	355	354
223	1	210	211	356	355
224	1	211	212	357	356
225	1	212	213	358	357
226	1	179	214	359	324
227	1	213	215	360	358
228	1	214	219	364	359
229	1	215	220	365	360
230	4	216	217	362	361
231	4	217	218	363	362
232	4	216	221	366	361
233	4	218	222	367	363
234	1	219	223	368	364
235	1	220	224	369	365
236	4	221	225	370	366
237	4	222	227	372	367
238	1	223	228	374	368
239	1	224	229	385	369
240	4	225	226	371	370
241	4	226	227	372	371
242	1	228	230	386	374
243	1	229	231	387	385
244	1	230	232	388	386
245	1	231	233	389	387
246	1	232	234	390	388
247	1	233	235	391	389
248	1	234	236	392	390
249	1	235	237	393	391
250	1	236	238	394	392
251	1	237	239	395	393
252	1	238	240	396	394
253	1	239	277	434	395
254	1	240	241	397	396
255	1	241	242	398	397
256	1	242	243	399	398
257	1	243	244	400	399
258	1	244	245	401	400
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260	1	246	247	403	402
261	1	247	248	404	403
262	1	248	249	405	404
263	1	249	250	406	405
264	1	250	251	407	406
265	1	251	252	408	407
266	2	252	253	409	408
267	2	253	254	410	409
269	1	258	259	416	415
270	1	259	260	417	416
271	1	260	261	418	417
272	1	261	262	419	418
273	1	262	263	420	419
274	1	263	264	421	420
275	1	264	265	422	421
276	1	265	266	423	422
277	1	266	267	424	423
278	1	267	268	425	424
279	1	268	269	426	425
280	1	269	270	427	426
281	1	270	271	428	427
282	1	271	272	429	428
283	1	272	273	430	429
284	1	273	274	431	430
285	1	274	275	432	431
286	1	275	276	433	432
287	1	276	277	434	433
288	1	253	278	435	409
289	1	279	257	414	436
290	1	278	280	437	435
291	1	281	279	436	438
292	1	280	282	439	437
293	1	440	438	281	283
294	1	282	285	443	439
295	1	442	440	283	284
296	1	444	442	284	286
297	1	285	287	445	443
298	1	446	444	286	288
299	1	287	289	447	445
300	1	448	446	288	290

301	1	449	448	290	291
302	1	289	293	451	447
303	1	450	449	291	292
304	1	452	450	292	294
305	1	453	452	294	295
306	1	454	453	295	296
307	1	293	298	456	451
308	1	455	454	296	297
309	1	456	455	297	298
316	2	458	459	413	412
317	2	413	414	460	459
318	2	414	415	461	460
322	2	333	334	464	463
326	4	361	366	473	469
327	4	366	370	475	473
328	4	370	371	476	475
329	4	371	372	477	476
330	2	408	409	479	478
331	2	409	410	480	479
332	5	384	385	488	487
338	2	481	482	459	458
339	2	459	460	483	482
340	2	483	484	461	460
347	2	463	464	468	467
349	5	485	486	490	489
350	5	486	487	491	490
351	5	487	488	492	491
354	6	462	471	493	499
357	2	494	495	482	481
358	2	482	483	496	495
359	2	483	484	497	496
365	2	467	468	513	512
366	4	472	474	525	523
367	4	474	477	530	525
368	4	475	476	529	528
369	4	476	477	530	529
370	2	478	479	549	548
371	2	479	480	550	549
372	5	541	485	486	542
373	6	498	499	501	500
379	2	552	553	495	494
380	2	495	496	554	553
381	2	554	555	497	496
388	6	526	527	528	534
391	6	529	535	534	528
394	2	568	569	553	552
395	2	553	554	570	569
396	2	554	555	571	570
405	4	521	524	580	576
406	4	528	529	583	582
407	4	529	530	584	583
408	2	548	549	586	585
409	2	549	550	587	586
410	5	543	544	595	594
417	2	588	589	569	568
418	2	569	570	590	589
419	2	590	591	571	570
420	6	574	575	573	572
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426	5	593	594	598	597
427	5	594	595	599	598
430	6	572	578	600	606
433	2	601	602	589	588
434	2	589	590	603	602
435	2	590	591	604	603
441	4	579	581	625	623
442	4	581	584	630	625
443	4	582	583	629	628
444	4	583	584	630	629
445	2	585	586	648	647
446	2	586	587	649	648
447	5	641	592	593	642
448	6	605	606	608	607
454	2	651	652	602	601
455	2	602	603	653	652
456	2	653	654	604	603
463	6	626	627	628	634
466	6	629	635	628	628
469	4	621	622	667	666
470	4	622	623	668	667
471	4	621	624	669	666
472	4	623	625	670	668
473	4	625	630	673	670
474	4	628	629	672	671
475	4	629	630	673	672
477	4	666	667	686	685
478	4	667	668	687	686
479	4	666	669	688	685

480	4	668	670	689	687
481	4	669	671	690	688
482	4	670	673	692	689
483	4	671	672	691	690
484	4	672	673	692	691
485	4	685	715	716	686
486	4	686	687	717	716
487	4	685	715	718	688
488	4	687	689	719	717
489	4	688	690	720	718
490	4	689	692	722	719
491	4	690	691	721	720
492	4	691	692	722	721

PROPRIETA` ASTE		Base		Altezza		Area		Area tag.		num.=
Nome	Materiale	Kw vertic.	Kw orizz.	J tors.	J fless. Y	J fless. Y	J fless. Z	J fless. Y	J fless. Z	
1	1	30.00	50.00	1.50000E+03	1.25000E+03	1.25000E+03	1.25000E+03	1.25000E+03	1.25000E+03	5
2	1	0.000000	0.000000	2.81734E+05	1.12500E+05	1.12500E+05	3.12500E+05	1.00000E+03	1.00000E+03	5
3	1	30.00	40.00	1.20000E+03	1.00000E+03	1.00000E+03	1.00000E+03	1.00000E+03	1.00000E+03	5
4	1	0.000000	0.000000	1.94383E+05	9.00000E+04	9.00000E+04	1.60000E+05	1.60000E+05	1.60000E+05	5
5	1	120.00	120.00	7.20000E+03	4.80000E+03	4.80000E+03	3.60000E+03	3.60000E+03	3.60000E+03	5
		3.900000	3.900000	2.61328E+06	4.80000E+06	4.80000E+06	9.18000E+06	9.18000E+06	9.18000E+06	5
		40.00	120.00	4.80000E+03	4.00000E+03	4.00000E+03	4.00000E+03	4.00000E+03	4.00000E+03	5
		0.000000	0.000000	2.02294E+06	6.40000E+05	6.40000E+05	5.76000E+06	5.76000E+06	5.76000E+06	5
		5.00	5.00	2.50000E+01	2.08333E+01	2.08333E+01	2.08333E+01	2.08333E+01	2.08333E+01	5
		0.000000	0.000000	8.80195E+01	5.20833E+01	5.20833E+01	5.20833E+01	5.20833E+01	5.20833E+01	5

PROPRIETA` GUSCI		Sp.membr.		Sp. piastra		Kw		num.=
Nome	Materiale							
1	1	30.00	30.00	0.000000				6
2	1	30.00	30.00	0.000000				6
3	1	30.00	30.00	10.000000				6
4	1	25.00	25.00	0.000000				6
5	1	15.00	15.00	0.000000				6
6	1	15.00	15.00	0.000000				6

MATERIALI		Coeff. nu		Mod. tang.		Peso spec.		Dil. te.		num.=
Nome	Mod. elast.									
1	3.00000E+05	1.50000E-01	1.30000E+05	2.50000E-03	1.00000E-05					1

VINCOLI		Rigid. X		Rigid. Y		Rigid. Z		Rigid. RX		Rigid. RY		Rigid. RZ		num.=
Nodo														
1	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
2	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
3	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
4	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
5	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
6	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
7	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
8	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
9	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
10	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
11	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
12	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
13	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
14	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
15	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
16	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
17	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
18	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
19	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
20	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
21	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
22	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
23	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
24	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
25	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
26	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
27	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
28	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
29	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
30	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
31	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
32	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
33	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
34	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
35	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
36	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
37	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
38	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
39	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
40	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
41	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
42	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
43	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
44	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154
45	bloccato	bloccato	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	libero	154



134	bloccato	bloccato	libero	libero	libero	libero
135	bloccato	bloccato	libero	libero	libero	libero
136	bloccato	bloccato	libero	libero	libero	libero
137	bloccato	bloccato	libero	libero	libero	libero
138	bloccato	bloccato	libero	libero	libero	libero
139	bloccato	bloccato	libero	libero	libero	libero
140	bloccato	bloccato	libero	libero	libero	libero
141	bloccato	bloccato	libero	libero	libero	libero
142	bloccato	bloccato	libero	libero	libero	libero
143	bloccato	bloccato	libero	libero	libero	libero
144	bloccato	bloccato	libero	libero	libero	libero
145	bloccato	bloccato	libero	libero	libero	libero
146	bloccato	bloccato	libero	libero	libero	libero
147	bloccato	bloccato	libero	libero	libero	libero
148	bloccato	bloccato	libero	libero	libero	libero
149	bloccato	bloccato	libero	libero	libero	libero
150	bloccato	bloccato	libero	libero	libero	libero
151	bloccato	bloccato	libero	libero	libero	libero
152	bloccato	bloccato	libero	libero	libero	libero
153	bloccato	bloccato	libero	libero	libero	libero
154	bloccato	bloccato	libero	libero	libero	libero

CARICHI NODI-----|-----|-----|-----|num.= 2617  
 Nome Nodo Direzione Intensita`  
 1 - 1021 : Forze Dinamiche (Autovettori)  
 1022 - 1819 : Forze Sismiche (Analisi Semplificata)  
 1820 - 2617 : Momenti Torcenti Addizionali

AREE DI CARICO----	-----	-----	-----	-----	num.= 14
Nome	SupXY	SupXZ	SupYZ		
1	0.	304500.	0.		
2	0.	913500.	0.		
3	0.	609000.	0.		
4	0.	2635500.	0.		
5	0.	1480500.	0.		
6	0.	278250.	0.		
7	0.	2147250.	0.		
8	1044750.	0.	0.		
9	325500.	0.	0.		
10	535637.	107031.	0.		
11	325500.	0.	0.		
12	412191.	82364.	0.		
13	1044750.	0.	0.		
14	123446.	617787.	0.		

CARICHI DI SOLAIO-----	-----	-----	-----	-----	num.= 337	
Nome	Cos X	Cos Y	Cos Z	Cond. Rifer.	Intens.	Quota
1	0.0000	1.0000	0.0000	1 glob	-0.02600	0.00
2	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
3	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
4	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
5	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
6	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
7	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
8	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
9	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
10	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
11	0.0000	-1.0000	0.0000	1 glob	-0.02600	0.00
12	0.0000	-1.0000	0.0000	1 glob	-0.02600	0.00
13	0.0000	-1.0000	0.0000	1 glob	-0.02600	0.00
14	0.0000	-1.0000	0.0000	1 glob	-0.02600	0.00
15	0.0000	1.0000	0.0000	1 glob	-0.02600	0.00
16	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
17	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
18	0.0000	1.0000	0.0000	1 glob	-0.02600	0.00
19	0.0000	1.0000	0.0000	1 glob	-0.02600	0.00
20	0.0000	1.0000	0.0000	1 glob	-0.02600	0.00
21	0.0000	-1.0000	0.0000	1 glob	-0.02600	0.00
22	0.0000	-1.0000	0.0000	1 glob	-0.02600	0.00
23	0.0000	1.0000	0.0000	1 glob	-0.02600	0.00
24	0.0000	-1.0000	0.0000	1 glob	-0.02600	0.00
25	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
26	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
27	1.0000	0.0000	0.0000	1 glob	-0.02600	0.00
28	0.9806	-0.1959	0.0000	1 glob	-0.02600	0.00
29	0.9806	-0.1959	0.0000	1 glob	-0.02600	0.00
30	0.1959	0.9806	0.0000	1 glob	-0.02600	0.00
31	-0.1959	-0.9806	0.0000	1 glob	-0.02600	0.00
32	0.0000	1.0000	0.0000	1 glob	-0.02600	350.00
33	1.0000	0.0000	0.0000	1 glob	-0.02600	350.00
34	1.0000	0.0000	0.0000	1 glob	-0.02600	350.00
35	1.0000	0.0000	0.0000	1 glob	-0.02600	350.00
36	1.0000	0.0000	0.0000	1 glob	-0.02600	350.00
37	1.0000	0.0000	0.0000	1 glob	-0.02600	350.00
38	1.0000	0.0000	0.0000	1 glob	-0.02600	350.00
39	0.0000	-1.0000	0.0000	1 glob	-0.02600	350.00
40	0.0000	-1.0000	0.0000	1 glob	-0.02600	350.00
41	0.0000	-1.0000	0.0000	1 glob	-0.02600	350.00









306	1.0000	0.0000	0.0000	5	glob	-0.03000	350.00
307	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
308	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
309	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
310	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
311	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
312	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
313	0.0000	-1.0000	0.0000	10	glob	-0.00500	1050.00
314	0.0000	-1.0000	0.0000	10	glob	-0.00500	1050.00
315	0.0000	-1.0000	0.0000	10	glob	-0.00500	1050.00
316	0.0000	-1.0000	0.0000	10	glob	-0.00500	1050.00
317	0.0000	1.0000	0.0000	10	glob	-0.00500	1050.00
318	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
319	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
320	0.0000	1.0000	0.0000	10	glob	-0.00500	1050.00
321	0.0000	1.0000	0.0000	10	glob	-0.00500	1050.00
322	0.0000	1.0000	0.0000	10	glob	-0.00500	1050.00
323	0.0000	-1.0000	0.0000	10	glob	-0.00500	1050.00
324	0.0000	-1.0000	0.0000	10	glob	-0.00500	1050.00
325	0.0000	1.0000	0.0000	10	glob	-0.00500	1050.00
326	0.0000	-1.0000	0.0000	10	glob	-0.00500	1050.00
327	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
328	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
329	1.0000	0.0000	0.0000	10	glob	-0.00500	1050.00
330	-0.1959	-0.9806	0.0000	10	glob	-0.00500	700.00
331	0.9806	-0.1959	0.0000	10	glob	-0.00500	700.00
332	0.9806	-0.1959	0.0000	10	glob	-0.00500	700.00
333	0.1959	0.9806	0.0000	10	glob	-0.00500	700.00
334	1.0000	0.0000	0.0000	10	glob	-0.00500	350.00
335	1.0000	0.0000	0.0000	10	glob	-0.00500	350.00
336	1.0000	0.0000	0.0000	10	glob	-0.00500	350.00
337	0.0000	1.0000	0.0000	10	glob	-0.00500	350.00

CARICHI	ASTE-----	-----	-----	-----	-----	-----	num.=	2109		
Nome	Asta	Dir	Tip	RIF	Parametro 1	Parametro 2	Parametro 3	Parametro 4		
2618	S001-p_proprio	258	Z	FT glo	-5.915	-5.915	0.000	0.000		
2619	S001-p_proprio	259	Z	FT glo	-5.915	-5.915	0.000	0.000		
2620	S001-p_proprio	260	Z	FT glo	-5.915	-5.915	0.000	0.000		
2621	S001-p_proprio	274	Z	FT glo	-5.915	-5.915	0.000	0.000		
2622	S002-p_proprio	266	Z	FT glo	-6.305	-6.305	0.000	0.000		
2623	S002-p_proprio	268	Z	FT glo	-6.305	-6.305	0.000	0.000		
2624	S002-p_proprio	269	Z	FT glo	-6.305	-6.305	0.000	0.000		
2625	S002-p_proprio	271	Z	FT glo	-6.305	-6.305	0.000	0.000		
2626	S002-p_proprio	273	Z	FT glo	-6.305	-6.305	0.000	0.000		
2627	S003-p_proprio	276	Z	FT glo	-5.005	-5.005	0.000	0.000		
2628	S003-p_proprio	278	Z	FT glo	-5.005	-5.005	0.000	0.000		
2629	S003-p_proprio	280	Z	FT glo	-5.005	-5.005	0.000	0.000		
2630	S003-p_proprio	281	Z	FT glo	-5.005	-5.005	0.000	0.000		
2631	S003-p_proprio	283	Z	FT glo	-5.005	-5.005	0.000	0.000		
2632	S004-p_proprio	277	Z	FT glo	-6.305	-6.305	0.000	0.000		
2633	S004-p_proprio	279	Z	FT glo	-6.305	-6.305	0.000	0.000		
2634	S004-p_proprio	280	Z	FT glo	-6.305	-6.305	0.000	0.000		
2635	S004-p_proprio	282	Z	FT glo	-6.305	-6.305	0.000	0.000		
2636	S004-p_proprio	284	Z	FT glo	-6.305	-6.305	0.000	0.000		
2639	S006-p_proprio	319	Z	FT glo	-6.045	-6.045	0.000	0.000		
2640	S006-p_proprio	323	Z	FT glo	-6.045	-6.045	0.000	0.000		
2641	S006-p_proprio	328	Z	FT glo	-6.045	-6.045	0.000	0.000		
2642	S006-p_proprio	338	Z	FT glo	-6.045	-6.045	0.000	0.000		
2643	S006-p_proprio	342	Z	FT glo	-6.045	-6.045	0.000	0.000		
2644	S007-p_proprio	328	Z	FT glo	-5.265	-5.265	0.000	0.000		
2645	S007-p_proprio	329	Z	FT glo	-5.265	-5.265	0.000	0.000		
2646	S008-p_proprio	321	Z	FT glo	0.000	-1.521	0.000	0.000		
2647	S008-p_proprio	329	Z	FT glo	-0.973	-2.174	0.000	0.000		
2648	S008-p_proprio	336	Z	FT glo	-2.151	-2.151	0.000	0.000		
2649	S008-p_proprio	340	Z	FT glo	-2.151	-2.151	0.000	0.000		
2651	S009-p_proprio	322	Z	FT glo	0.000	-1.517	0.000	0.000		
2652	S009-p_proprio	327	Z	FT glo	-0.596	-2.671	0.000	0.000		
2653	S009-p_proprio	337	Z	FT glo	-2.139	-2.139	0.000	0.000		
2654	S009-p_proprio	341	Z	FT glo	-2.139	-2.139	0.000	0.000		
2656	S009-p_proprio	348	Z	FT glo	-2.139	0.000	0.000	0.000		
2657	S010-p_proprio	327	Z	FT glo	-4.290	-4.290	0.000	0.000		
2658	S010-p_proprio	330	Z	FT glo	-4.290	-4.290	0.000	0.000		
2659	S010-p_proprio	348	Z	FT glo	-4.290	-4.290	0.000	0.000		
2660	S011-p_proprio	296	Z	FT glo	-5.200	-5.200	0.000	0.000		
2661	S011-p_proprio	297	Z	FT glo	-5.200	-5.200	0.000	0.000		
2662	S011-p_proprio	298	Z	FT glo	-5.200	-5.200	0.000	0.000		
2663	S011-p_proprio	299	Z	FT glo	-5.200	-5.200	0.000	0.000		
2664	S011-p_proprio	353	Z	FT glo	-5.200	-5.200	0.000	0.000		
2665	S012-p_proprio	300	Z	FT glo	-5.200	-5.200	0.000	0.000		
2666	S012-p_proprio	301	Z	FT glo	-5.200	-5.200	0.000	0.000		
2667	S012-p_proprio	302	Z	FT glo	-5.200	-5.200	0.000	0.000		
2668	S012-p_proprio	303	Z	FT glo	-5.200	-5.200	0.000	0.000		
2669	S012-p_proprio	354	Z	FT glo	-5.200	-5.200	0.000	0.000		
2670	S013-p_proprio	304	Z	FT glo	-5.200	-5.200	0.000	0.000		
2671	S013-p_proprio	305	Z	FT glo	-5.200	-5.200	0.000	0.000		
2672	S013-p_proprio	306	Z	FT glo	-5.200	-5.200	0.000	0.000		
2673	S013-p_proprio	307	Z	FT glo	-5.200	-5.200	0.000	0.000		
2674	S013-p_proprio	355	Z	FT glo	-5.200	-5.200	0.000	0.000		

2675	S014-p_proprio	308	Z	FT	glo	-5.200	-5.200	0.000	0.000
2676	S014-p_proprio	309	Z	FT	glo	-5.200	-5.200	0.000	0.000
2677	S014-p_proprio	310	Z	FT	glo	-5.200	-5.200	0.000	0.000
2678	S014-p_proprio	311	Z	FT	glo	-5.200	-5.200	0.000	0.000
2679	S014-p_proprio	356	Z	FT	glo	-5.200	-5.200	0.000	0.000
2680	S015-p_proprio	312	Z	FT	glo	-5.200	-5.200	0.000	0.000
2681	S015-p_proprio	313	Z	FT	glo	-5.200	-5.200	0.000	0.000
2682	S015-p_proprio	314	Z	FT	glo	-5.200	-5.200	0.000	0.000
2683	S015-p_proprio	315	Z	FT	glo	-5.200	-5.200	0.000	0.000
2684	S015-p_proprio	357	Z	FT	glo	-5.200	-5.200	0.000	0.000
2685	S016-p_proprio	320	Z	FT	glo	-4.355	-4.355	0.000	0.000
2686	S016-p_proprio	324	Z	FT	glo	-4.355	-4.355	0.000	0.000
2687	S016-p_proprio	335	Z	FT	glo	-4.355	-4.355	0.000	0.000
2688	S016-p_proprio	339	Z	FT	glo	-4.355	-4.355	0.000	0.000
2689	S016-p_proprio	343	Z	FT	glo	-4.355	-4.355	0.000	0.000
2692	S018-p_proprio	349	Z	FT	glo	-7.735	-7.735	0.000	0.000
2693	S018-p_proprio	381	Z	FT	glo	-7.735	-7.735	0.000	0.000
2694	S018-p_proprio	382	Z	FT	glo	-7.735	-7.735	0.000	0.000
2695	S018-p_proprio	383	Z	FT	glo	-7.735	-7.735	0.000	0.000
2696	S018-p_proprio	384	Z	FT	glo	-7.735	-7.735	0.000	0.000
2697	S019-p_proprio	350	Z	FT	glo	-7.735	-7.735	0.000	0.000
2698	S019-p_proprio	385	Z	FT	glo	-7.735	-7.735	0.000	0.000
2699	S019-p_proprio	386	Z	FT	glo	-7.735	-7.735	0.000	0.000
2700	S019-p_proprio	387	Z	FT	glo	-7.735	-7.735	0.000	0.000
2701	S019-p_proprio	388	Z	FT	glo	-7.735	-7.735	0.000	0.000
2702	S020-p_proprio	351	Z	FT	glo	-7.735	-7.735	0.000	0.000
2703	S020-p_proprio	389	Z	FT	glo	-7.735	-7.735	0.000	0.000
2704	S020-p_proprio	390	Z	FT	glo	-7.735	-7.735	0.000	0.000
2705	S020-p_proprio	391	Z	FT	glo	-7.735	-7.735	0.000	0.000
2706	S020-p_proprio	392	Z	FT	glo	-7.735	-7.735	0.000	0.000
2707	S020-p_proprio	393	Z	FT	glo	-7.735	-7.735	0.000	0.000
2708	S020-p_proprio	394	Z	FT	glo	-7.735	-7.735	0.000	0.000
2709	S021-p_proprio	352	Z	FT	glo	-7.735	-7.735	0.000	0.000
2710	S021-p_proprio	395	Z	FT	glo	-7.735	-7.735	0.000	0.000
2711	S022-p_proprio	353	Z	FT	glo	-7.735	-7.735	0.000	0.000
2712	S022-p_proprio	396	Z	FT	glo	-7.735	-7.735	0.000	0.000
2713	S022-p_proprio	397	Z	FT	glo	-7.735	-7.735	0.000	0.000
2714	S023-p_proprio	354	Z	FT	glo	-7.735	-7.735	0.000	0.000
2715	S023-p_proprio	398	Z	FT	glo	-7.735	-7.735	0.000	0.000
2716	S023-p_proprio	399	Z	FT	glo	-7.735	-7.735	0.000	0.000
2717	S023-p_proprio	400	Z	FT	glo	-7.735	-7.735	0.000	0.000
2718	S023-p_proprio	401	Z	FT	glo	-7.735	-7.735	0.000	0.000
2719	S023-p_proprio	402	Z	FT	glo	-7.735	-7.735	0.000	0.000
2720	S023-p_proprio	403	Z	FT	glo	-7.735	-7.735	0.000	0.000
2721	S024-p_proprio	355	Z	FT	glo	-7.735	-7.735	0.000	0.000
2722	S024-p_proprio	404	Z	FT	glo	-7.735	-7.735	0.000	0.000
2723	S024-p_proprio	405	Z	FT	glo	-7.735	-7.735	0.000	0.000
2724	S024-p_proprio	406	Z	FT	glo	-7.735	-7.735	0.000	0.000
2725	S024-p_proprio	407	Z	FT	glo	-7.735	-7.735	0.000	0.000
2726	S025-p_proprio	372	Z	FT	glo	-5.655	-5.655	0.000	0.000
2727	S025-p_proprio	373	Z	FT	glo	-5.655	-5.655	0.000	0.000
2728	S026-p_proprio	373	Z	FT	glo	-5.655	-5.655	0.000	0.000
2729	S026-p_proprio	374	Z	FT	glo	-5.655	-5.655	0.000	0.000
2730	S027-p_proprio	361	Z	FT	glo	-4.355	-4.355	0.000	0.000
2731	S027-p_proprio	363	Z	FT	glo	-4.355	-4.355	0.000	0.000
2732	S027-p_proprio	365	Z	FT	glo	-4.355	-4.355	0.000	0.000
2733	S027-p_proprio	374	Z	FT	glo	-4.355	-4.355	0.000	0.000
2734	S027-p_proprio	376	Z	FT	glo	-4.355	-4.355	0.000	0.000
2735	S027-p_proprio	378	Z	FT	glo	-4.355	-4.355	0.000	0.000
2736	S027-p_proprio	380	Z	FT	glo	-4.355	-4.355	0.000	0.000
2737	S028-p_proprio	396	Z	FT	glo	0.000	-1.087	0.000	0.000
2738	S028-p_proprio	397	Z	FT	glo	-1.087	-1.162	0.000	0.000
2739	S028-p_proprio	398	Z	FT	glo	-1.162	-1.205	0.000	0.000
2740	S028-p_proprio	420	Z	FT	glo	-6.149	-6.149	0.000	0.000
2741	S028-p_proprio	422	Z	FT	glo	-3.241	-7.372	0.000	0.000
2742	S028-p_proprio	423	Z	FT	glo	-6.149	-6.149	0.000	0.000
2743	S029-p_proprio	394	Z	FT	glo	0.000	-0.263	0.000	0.000
2744	S029-p_proprio	395	Z	FT	glo	-0.263	-1.088	0.000	0.000
2745	S029-p_proprio	419	Z	FT	glo	-0.238	-6.462	0.000	0.000
2746	S029-p_proprio	421	Z	FT	glo	-5.551	-5.551	0.000	0.000
2747	S029-p_proprio	422	Z	FT	glo	-5.551	-5.551	0.000	0.000
2748	S029-p_proprio	424	Z	FT	glo	-5.551	-5.551	0.000	0.000
2749	S029-p_proprio	427	Z	FT	glo	-5.551	-5.551	0.000	0.000
2750	S030-p_proprio	426	Z	FT	glo	-4.550	-4.550	0.000	0.000
2751	S030-p_proprio	435	Z	FT	glo	-4.550	-4.550	0.000	0.000
2752	S030-p_proprio	436	Z	FT	glo	-4.550	-4.550	0.000	0.000
2753	S030-p_proprio	438	Z	FT	glo	-4.550	-4.550	0.000	0.000
2754	S030-p_proprio	439	Z	FT	glo	-4.550	-4.550	0.000	0.000
2755	S031-p_proprio	429	Z	FT	glo	-4.550	-4.550	0.000	0.000
2756	S031-p_proprio	440	Z	FT	glo	-4.550	-4.550	0.000	0.000
2757	S031-p_proprio	441	Z	FT	glo	-4.550	-4.550	0.000	0.000
2758	S031-p_proprio	443	Z	FT	glo	-4.550	-4.550	0.000	0.000
2759	S031-p_proprio	444	Z	FT	glo	-4.550	-4.550	0.000	0.000
2760	S032-p_proprio	493	Z	FT	glo	-5.915	-5.915	0.000	0.000
2761	S032-p_proprio	498	Z	FT	glo	-5.915	-5.915	0.000	0.000
2762	S033-p_proprio	496	Z	FT	glo	-6.305	-6.305	0.000	0.000
2763	S033-p_proprio	497	Z	FT	glo	-6.305	-6.305	0.000	0.000
2764	S034-p_proprio	500	Z	FT	glo	-5.005	-5.005	0.000	0.000

2765	S034-p_proprio	501	Z	FT	glo	-5.005	-5.005	0.000	0.000
2766	S035-p_proprio	501	Z	FT	glo	-6.305	-6.305	0.000	0.000
2767	S035-p_proprio	502	Z	FT	glo	-6.305	-6.305	0.000	0.000
2768	S036-p_proprio	518	Z	FT	glo	-6.045	-6.045	0.000	0.000
2769	S036-p_proprio	519	Z	FT	glo	-6.045	-6.045	0.000	0.000
2770	S037-p_proprio	514	Z	FT	glo	-5.265	-5.265	0.000	0.000
2771	S037-p_proprio	519	Z	FT	glo	-5.265	-5.265	0.000	0.000
2772	S037-p_proprio	532	Z	FT	glo	-5.265	-5.265	0.000	0.000
2773	S038-p_proprio	517	Z	FT	glo	-4.290	-4.290	0.000	0.000
2774	S038-p_proprio	520	Z	FT	glo	-4.290	-4.290	0.000	0.000
2775	S038-p_proprio	535	Z	FT	glo	-4.290	-4.290	0.000	0.000
2776	S039-p_proprio	508	Z	FT	glo	-5.200	-5.200	0.000	0.000
2777	S039-p_proprio	540	Z	FT	glo	-5.200	-5.200	0.000	0.000
2778	S040-p_proprio	509	Z	FT	glo	-5.200	-5.200	0.000	0.000
2779	S040-p_proprio	541	Z	FT	glo	-5.200	-5.200	0.000	0.000
2780	S041-p_proprio	510	Z	FT	glo	-5.200	-5.200	0.000	0.000
2781	S041-p_proprio	542	Z	FT	glo	-5.200	-5.200	0.000	0.000
2782	S042-p_proprio	511	Z	FT	glo	-5.200	-5.200	0.000	0.000
2783	S042-p_proprio	543	Z	FT	glo	-5.200	-5.200	0.000	0.000
2784	S043-p_proprio	512	Z	FT	glo	-5.200	-5.200	0.000	0.000
2785	S043-p_proprio	544	Z	FT	glo	-5.200	-5.200	0.000	0.000
2786	S044-p_proprio	525	Z	FT	glo	-4.355	-4.355	0.000	0.000
2787	S044-p_proprio	526	Z	FT	glo	-4.355	-4.355	0.000	0.000
2788	S045-p_proprio	536	Z	FT	glo	-7.735	-7.735	0.000	0.000
2789	S045-p_proprio	559	Z	FT	glo	-7.735	-7.735	0.000	0.000
2790	S046-p_proprio	537	Z	FT	glo	-7.735	-7.735	0.000	0.000
2791	S046-p_proprio	560	Z	FT	glo	-7.735	-7.735	0.000	0.000
2792	S047-p_proprio	538	Z	FT	glo	-7.735	-7.735	0.000	0.000
2793	S047-p_proprio	561	Z	FT	glo	-7.735	-7.735	0.000	0.000
2794	S047-p_proprio	562	Z	FT	glo	-7.735	-7.735	0.000	0.000
2795	S047-p_proprio	563	Z	FT	glo	-7.735	-7.735	0.000	0.000
2796	S048-p_proprio	539	Z	FT	glo	-7.735	-7.735	0.000	0.000
2797	S048-p_proprio	564	Z	FT	glo	-7.735	-7.735	0.000	0.000
2798	S049-p_proprio	540	Z	FT	glo	-7.735	-7.735	0.000	0.000
2799	S049-p_proprio	565	Z	FT	glo	-7.735	-7.735	0.000	0.000
2800	S049-p_proprio	566	Z	FT	glo	-7.735	-7.735	0.000	0.000
2801	S050-p_proprio	541	Z	FT	glo	-7.735	-7.735	0.000	0.000
2802	S050-p_proprio	567	Z	FT	glo	-7.735	-7.735	0.000	0.000
2803	S050-p_proprio	568	Z	FT	glo	-7.735	-7.735	0.000	0.000
2804	S050-p_proprio	569	Z	FT	glo	-7.735	-7.735	0.000	0.000
2805	S051-p_proprio	542	Z	FT	glo	-7.735	-7.735	0.000	0.000
2806	S051-p_proprio	570	Z	FT	glo	-7.735	-7.735	0.000	0.000
2807	S052-p_proprio	555	Z	FT	glo	-5.655	-5.655	0.000	0.000
2808	S052-p_proprio	556	Z	FT	glo	-5.655	-5.655	0.000	0.000
2809	S053-p_proprio	556	Z	FT	glo	-5.655	-5.655	0.000	0.000
2810	S053-p_proprio	557	Z	FT	glo	-5.655	-5.655	0.000	0.000
2811	S054-p_proprio	565	Z	FT	glo	0.000	-1.087	0.000	0.000
2812	S054-p_proprio	566	Z	FT	glo	-1.087	-1.162	0.000	0.000
2813	S054-p_proprio	567	Z	FT	glo	-1.162	-1.205	0.000	0.000
2814	S054-p_proprio	573	Z	FT	glo	-6.149	-6.149	0.000	0.000
2815	S054-p_proprio	574	Z	FT	glo	-3.241	-7.372	0.000	0.000
2816	S055-p_proprio	563	Z	FT	glo	0.000	-0.263	0.000	0.000
2817	S055-p_proprio	564	Z	FT	glo	-0.263	-1.088	0.000	0.000
2818	S055-p_proprio	574	Z	FT	glo	-5.551	-5.551	0.000	0.000
2819	S055-p_proprio	575	Z	FT	glo	-3.568	-6.433	0.000	0.000
2820	S056-p_proprio	576	Z	FT	glo	-4.550	-4.550	0.000	0.000
2821	S056-p_proprio	581	Z	FT	glo	-4.550	-4.550	0.000	0.000
2822	S057-p_proprio	577	Z	FT	glo	-4.550	-4.550	0.000	0.000
2823	S057-p_proprio	582	Z	FT	glo	-4.550	-4.550	0.000	0.000
2824	S058-p_proprio	641	Z	FT	glo	-6.045	-6.045	0.000	0.000
2825	S058-p_proprio	642	Z	FT	glo	-6.045	-6.045	0.000	0.000
2826	S059-p_proprio	637	Z	FT	glo	-5.265	-5.265	0.000	0.000
2827	S059-p_proprio	642	Z	FT	glo	-5.265	-5.265	0.000	0.000
2828	S059-p_proprio	655	Z	FT	glo	-5.265	-5.265	0.000	0.000
2829	S060-p_proprio	640	Z	FT	glo	-4.290	-4.290	0.000	0.000
2830	S060-p_proprio	643	Z	FT	glo	-4.290	-4.290	0.000	0.000
2831	S060-p_proprio	658	Z	FT	glo	-4.290	-4.290	0.000	0.000
2832	S061-p_proprio	631	Z	FT	glo	-5.200	-5.200	0.000	0.000
2833	S061-p_proprio	663	Z	FT	glo	-5.200	-5.200	0.000	0.000
2834	S062-p_proprio	632	Z	FT	glo	-5.200	-5.200	0.000	0.000
2835	S062-p_proprio	664	Z	FT	glo	-5.200	-5.200	0.000	0.000
2836	S063-p_proprio	633	Z	FT	glo	-5.200	-5.200	0.000	0.000
2837	S063-p_proprio	665	Z	FT	glo	-5.200	-5.200	0.000	0.000
2838	S064-p_proprio	634	Z	FT	glo	-5.200	-5.200	0.000	0.000
2839	S064-p_proprio	666	Z	FT	glo	-5.200	-5.200	0.000	0.000
2840	S065-p_proprio	635	Z	FT	glo	-5.200	-5.200	0.000	0.000
2841	S065-p_proprio	667	Z	FT	glo	-5.200	-5.200	0.000	0.000
2842	S066-p_proprio	648	Z	FT	glo	-4.355	-4.355	0.000	0.000
2843	S066-p_proprio	649	Z	FT	glo	-4.355	-4.355	0.000	0.000
2844	S067-p_proprio	659	Z	FT	glo	-7.735	-7.735	0.000	0.000
2845	S067-p_proprio	681	Z	FT	glo	-7.735	-7.735	0.000	0.000
2846	S068-p_proprio	660	Z	FT	glo	-7.735	-7.735	0.000	0.000
2847	S068-p_proprio	682	Z	FT	glo	-7.735	-7.735	0.000	0.000
2848	S069-p_proprio	661	Z	FT	glo	-7.735	-7.735	0.000	0.000
2849	S069-p_proprio	683	Z	FT	glo	-7.735	-7.735	0.000	0.000
2850	S069-p_proprio	684	Z	FT	glo	-7.735	-7.735	0.000	0.000
2851	S069-p_proprio	685	Z	FT	glo	-7.735	-7.735	0.000	0.000
2852	S070-p_proprio	662	Z	FT	glo	-7.735	-7.735	0.000	0.000

2853	S070-p_proprio	686	Z	FT	glo	-7.735	-7.735	0.000	0.000
2854	S071-p_proprio	663	Z	FT	glo	-7.735	-7.735	0.000	0.000
2855	S071-p_proprio	687	Z	FT	glo	-7.735	-7.735	0.000	0.000
2856	S071-p_proprio	688	Z	FT	glo	-7.735	-7.735	0.000	0.000
2857	S072-p_proprio	664	Z	FT	glo	-7.735	-7.735	0.000	0.000
2858	S072-p_proprio	689	Z	FT	glo	-7.735	-7.735	0.000	0.000
2859	S072-p_proprio	690	Z	FT	glo	-7.735	-7.735	0.000	0.000
2860	S072-p_proprio	691	Z	FT	glo	-7.735	-7.735	0.000	0.000
2861	S073-p_proprio	665	Z	FT	glo	-7.735	-7.735	0.000	0.000
2862	S073-p_proprio	692	Z	FT	glo	-7.735	-7.735	0.000	0.000
2863	S074-p_proprio	677	Z	FT	glo	-5.655	-5.655	0.000	0.000
2864	S074-p_proprio	678	Z	FT	glo	-5.655	-5.655	0.000	0.000
2865	S075-p_proprio	678	Z	FT	glo	-5.655	-5.655	0.000	0.000
2866	S075-p_proprio	679	Z	FT	glo	-5.655	-5.655	0.000	0.000
2867	S076-p_proprio	687	Z	FT	glo	0.000	-1.087	0.000	0.000
2868	S076-p_proprio	688	Z	FT	glo	-1.087	-1.162	0.000	0.000
2869	S076-p_proprio	689	Z	FT	glo	-1.162	-1.205	0.000	0.000
2870	S076-p_proprio	695	Z	FT	glo	-6.149	-6.149	0.000	0.000
2871	S076-p_proprio	696	Z	FT	glo	-3.241	-7.372	0.000	0.000
2872	S077-p_proprio	685	Z	FT	glo	0.000	-0.263	0.000	0.000
2873	S077-p_proprio	686	Z	FT	glo	-0.263	-1.088	0.000	0.000
2874	S077-p_proprio	696	Z	FT	glo	-5.551	-5.551	0.000	0.000
2875	S077-p_proprio	697	Z	FT	glo	-3.568	-6.433	0.000	0.000
2876	S078-p_proprio	698	Z	FT	glo	-4.550	-4.550	0.000	0.000
2877	S078-p_proprio	703	Z	FT	glo	-4.550	-4.550	0.000	0.000
2878	S079-p_proprio	699	Z	FT	glo	-4.550	-4.550	0.000	0.000
2879	S079-p_proprio	704	Z	FT	glo	-4.550	-4.550	0.000	0.000
2882	S081-p_proprio	752	Z	FT	glo	-6.045	-6.045	0.000	0.000
2883	S081-p_proprio	753	Z	FT	glo	-6.045	-6.045	0.000	0.000
2884	S082-p_proprio	753	Z	FT	glo	-5.265	-5.265	0.000	0.000
2885	S082-p_proprio	754	Z	FT	glo	-5.265	-5.265	0.000	0.000
2887	S083-p_proprio	754	Z	FT	glo	-0.973	-2.174	0.000	0.000
2888	S083-p_proprio	763	Z	FT	glo	-2.151	-2.151	0.000	0.000
2889	S083-p_proprio	765	Z	FT	glo	-2.151	-2.151	0.000	0.000
2892	S084-p_proprio	755	Z	FT	glo	-0.967	-2.161	0.000	0.000
2893	S084-p_proprio	764	Z	FT	glo	-2.139	-2.139	0.000	0.000
2894	S084-p_proprio	766	Z	FT	glo	-2.139	-2.139	0.000	0.000
2896	S085-p_proprio	755	Z	FT	glo	-4.290	-4.290	0.000	0.000
2897	S085-p_proprio	756	Z	FT	glo	-4.290	-4.290	0.000	0.000
2898	S086-p_proprio	742	Z	FT	glo	-5.200	-5.200	0.000	0.000
2899	S086-p_proprio	775	Z	FT	glo	-5.200	-5.200	0.000	0.000
2900	S087-p_proprio	743	Z	FT	glo	-5.200	-5.200	0.000	0.000
2901	S087-p_proprio	776	Z	FT	glo	-5.200	-5.200	0.000	0.000
2902	S088-p_proprio	744	Z	FT	glo	-5.200	-5.200	0.000	0.000
2903	S088-p_proprio	777	Z	FT	glo	-5.200	-5.200	0.000	0.000
2904	S089-p_proprio	745	Z	FT	glo	-5.200	-5.200	0.000	0.000
2905	S089-p_proprio	778	Z	FT	glo	-5.200	-5.200	0.000	0.000
2906	S090-p_proprio	746	Z	FT	glo	-5.200	-5.200	0.000	0.000
2907	S090-p_proprio	779	Z	FT	glo	-5.200	-5.200	0.000	0.000
2908	S091-p_proprio	761	Z	FT	glo	-4.355	-4.355	0.000	0.000
2909	S091-p_proprio	762	Z	FT	glo	-4.355	-4.355	0.000	0.000
2912	S093-p_proprio	771	Z	FT	glo	-7.735	-7.735	0.000	0.000
2913	S093-p_proprio	792	Z	FT	glo	-7.735	-7.735	0.000	0.000
2914	S094-p_proprio	772	Z	FT	glo	-7.735	-7.735	0.000	0.000
2915	S094-p_proprio	793	Z	FT	glo	-7.735	-7.735	0.000	0.000
2916	S095-p_proprio	773	Z	FT	glo	-7.735	-7.735	0.000	0.000
2917	S095-p_proprio	794	Z	FT	glo	-7.735	-7.735	0.000	0.000
2918	S096-p_proprio	774	Z	FT	glo	-7.735	-7.735	0.000	0.000
2919	S096-p_proprio	795	Z	FT	glo	-7.735	-7.735	0.000	0.000
2920	S097-p_proprio	775	Z	FT	glo	-7.735	-7.735	0.000	0.000
2921	S097-p_proprio	796	Z	FT	glo	-7.735	-7.735	0.000	0.000
2922	S098-p_proprio	776	Z	FT	glo	-7.735	-7.735	0.000	0.000
2923	S098-p_proprio	797	Z	FT	glo	-7.735	-7.735	0.000	0.000
2924	S099-p_proprio	777	Z	FT	glo	-7.735	-7.735	0.000	0.000
2925	S099-p_proprio	798	Z	FT	glo	-7.735	-7.735	0.000	0.000
2926	S100-p_proprio	788	Z	FT	glo	-5.655	-5.655	0.000	0.000
2927	S100-p_proprio	789	Z	FT	glo	-5.655	-5.655	0.000	0.000
2928	S101-p_proprio	789	Z	FT	glo	-5.655	-5.655	0.000	0.000
2929	S101-p_proprio	790	Z	FT	glo	-5.655	-5.655	0.000	0.000
2930	S102-p_proprio	790	Z	FT	glo	-4.355	-4.355	0.000	0.000
2931	S102-p_proprio	791	Z	FT	glo	-4.355	-4.355	0.000	0.000
2932	tompagni	487	Z	FD	glo	-5.400	-5.400	0.000	0.000
2933	tompagni	488	Z	FD	glo	-5.400	-5.400	0.000	0.000
2934	tompagni	489	Z	FD	glo	-5.400	-5.400	0.000	0.000
2935	parapetto	493	Z	FD	glo	-1.800	-1.800	0.000	0.000
2936	parapetto	494	Z	FD	glo	-1.800	-1.800	0.000	0.000
2937	parapetto	495	Z	FD	glo	-1.800	-1.800	0.000	0.000
2938	parapetto	497	Z	FD	glo	-1.800	-1.800	0.000	0.000
2939	parapetto	500	Z	FD	glo	-1.800	-1.800	0.000	0.000
2940	parapetto	502	Z	FD	glo	-1.800	-1.800	0.000	0.000
2941	tompagni	503	Z	FD	glo	-5.400	-5.400	0.000	0.000
2942	tompagni	504	Z	FD	glo	-5.400	-5.400	0.000	0.000
2943	tompagni	505	Z	FD	glo	-5.400	-5.400	0.000	0.000
2944	tompagni	506	Z	FD	glo	-5.400	-5.400	0.000	0.000
2945	tompagni	507	Z	FD	glo	-5.400	-5.400	0.000	0.000
2946	tompagni	508	Z	FD	glo	-5.400	-5.400	0.000	0.000
2947	tompagni	509	Z	FD	glo	-5.400	-5.400	0.000	0.000
2948	tompagni	510	Z	FD	glo	-5.400	-5.400	0.000	0.000

2949	tompagni	511	Z	FD	glo	-5.400			
2950	tompagni	512	Z	FD	glo	-5.400			
2951	tompagni	513	Z	FD	glo	-5.400			
2952	tompagni	518	Z	FD	glo	-5.400			
2953	tompagni	526	Z	FD	glo	-5.400			
2954	tompagni	548	Z	FD	glo	-5.400			
2955	tompagni	558	Z	FD	glo	-5.400			
2956	tompagni	559	Z	FD	glo	-5.400			
2957	tompagni	560	Z	FD	glo	-5.400			
2958	tompagni	561	Z	FD	glo	-5.400			
2959	tompagni	569	Z	FD	glo	-5.400			
2960	tompagni	570	Z	FD	glo	-5.400			
2961	tompagni	571	Z	FD	glo	-5.400			
2962	tompagni	572	Z	FD	glo	-5.400			
2963	tompagni	573	Z	FD	glo	-5.400			
2964	tompagni	575	Z	FD	glo	-5.400			
2965	tompagni	578	Z	FD	glo	-5.400			
2966	tompagni	580	Z	FD	glo	-5.400			
2967	tompagni	581	Z	FD	glo	-5.400			
2968	tompagni	582	Z	FD	glo	-5.400			
2969	tompagni	620	Z	FD	glo	-5.400			
2970	tompagni	621	Z	FD	glo	-5.400			
2971	tompagni	622	Z	FD	glo	-5.400			
2972	tompagni	627	Z	FD	glo	-5.400			
2973	tompagni	628	Z	FD	glo	-5.400			
2974	tompagni	629	Z	FD	glo	-5.400			
2975	tompagni	630	Z	FD	glo	-5.400			
2976	tompagni	631	Z	FD	glo	-5.400			
2977	tompagni	632	Z	FD	glo	-5.400			
2978	tompagni	633	Z	FD	glo	-5.400			
2979	tompagni	634	Z	FD	glo	-5.400			
2980	tompagni	635	Z	FD	glo	-5.400			
2981	tompagni	636	Z	FD	glo	-5.400			
2982	tompagni	641	Z	FD	glo	-5.400			
2983	tompagni	649	Z	FD	glo	-5.400			
2984	tompagni	670	Z	FD	glo	-5.400			
2985	tompagni	680	Z	FD	glo	-5.400			
2986	tompagni	681	Z	FD	glo	-5.400			
2987	tompagni	682	Z	FD	glo	-5.400			
2988	tompagni	683	Z	FD	glo	-5.400			
2989	tompagni	686	Z	FD	glo	-5.400			
2990	tompagni	687	Z	FD	glo	-5.400			
2991	tompagni	691	Z	FD	glo	-5.400			
2992	tompagni	692	Z	FD	glo	-5.400			
2993	tompagni	693	Z	FD	glo	-5.400			
2994	tompagni	694	Z	FD	glo	-5.400			
2995	parapetto	695	Z	FD	glo	-1.800			
2996	parapetto	697	Z	FD	glo	-1.800			
2997	parapetto	700	Z	FD	glo	-1.800			
2998	parapetto	702	Z	FD	glo	-1.800			
2999	parapetto	703	Z	FD	glo	-1.800			
3000	parapetto	704	Z	FD	glo	-1.800			
3001	parapetto	738	Z	FD	glo	-1.800			
3002	parapetto	739	Z	FD	glo	-1.800			
3003	parapetto	740	Z	FD	glo	-1.800			
3004	parapetto	741	Z	FD	glo	-1.800			
3005	parapetto	742	Z	FD	glo	-1.800			
3006	parapetto	743	Z	FD	glo	-1.800			
3007	parapetto	744	Z	FD	glo	-1.800			
3008	parapetto	745	Z	FD	glo	-1.800			
3009	parapetto	746	Z	FD	glo	-1.800			
3010	parapetto	747	Z	FD	glo	-1.800			
3011	parapetto	752	Z	FD	glo	-1.800			
3012	parapetto	762	Z	FD	glo	-1.800			
3013	parapetto	781	Z	FD	glo	-1.800			
3014	parapetto	791	Z	FD	glo	-1.800			
3015	parapetto	792	Z	FD	glo	-1.800			
3016	parapetto	793	Z	FD	glo	-1.800			
3017	parapetto	794	Z	FD	glo	-1.800			
3018	parapetto	795	Z	FD	glo	-1.800			
3019	parapetto	796	Z	FD	glo	-1.800			
3020	parapetto	797	Z	FD	glo	-1.800			
3021	parapetto	798	Z	FD	glo	-1.800			
3022	parapetto	799	Z	FD	glo	-1.800			
3023	parapetto	800	Z	FD	glo	-1.800			
3024	parapetto	801	Z	FD	glo	-1.800			
3025	S001-permanente_di_p	258	Z	FT	glo	-5.460	-5.460	0.000	0.000
3026	S001-permanente_di_p	259	Z	FT	glo	-5.460	-5.460	0.000	0.000
3027	S001-permanente_di_p	260	Z	FT	glo	-5.460	-5.460	0.000	0.000
3028	S001-permanente_di_p	274	Z	FT	glo	-5.460	-5.460	0.000	0.000
3029	S002-permanente_di_p	266	Z	FT	glo	-5.820	-5.820	0.000	0.000
3030	S002-permanente_di_p	268	Z	FT	glo	-5.820	-5.820	0.000	0.000
3031	S002-permanente_di_p	269	Z	FT	glo	-5.820	-5.820	0.000	0.000
3032	S002-permanente_di_p	271	Z	FT	glo	-5.820	-5.820	0.000	0.000
3033	S002-permanente_di_p	273	Z	FT	glo	-5.820	-5.820	0.000	0.000
3034	S003-permanente_di_p	276	Z	FT	glo	-4.620	-4.620	0.000	0.000
3035	S003-permanente_di_p	278	Z	FT	glo	-4.620	-4.620	0.000	0.000
3036	S003-permanente_di_p	280	Z	FT	glo	-4.620	-4.620	0.000	0.000



3133	S025-permanente_di_p	372	Z	FT	glo	-5.220	-5.220	0.000	0.000
3134	S025-permanente_di_p	373	Z	FT	glo	-5.220	-5.220	0.000	0.000
3135	S026-permanente_di_p	373	Z	FT	glo	-5.220	-5.220	0.000	0.000
3136	S026-permanente_di_p	374	Z	FT	glo	-5.220	-5.220	0.000	0.000
3137	S027-permanente_di_p	361	Z	FT	glo	-4.020	-4.020	0.000	0.000
3138	S027-permanente_di_p	363	Z	FT	glo	-4.020	-4.020	0.000	0.000
3139	S027-permanente_di_p	365	Z	FT	glo	-4.020	-4.020	0.000	0.000
3140	S027-permanente_di_p	374	Z	FT	glo	-4.020	-4.020	0.000	0.000
3141	S027-permanente_di_p	376	Z	FT	glo	-4.020	-4.020	0.000	0.000
3142	S027-permanente_di_p	378	Z	FT	glo	-4.020	-4.020	0.000	0.000
3143	S027-permanente_di_p	380	Z	FT	glo	-4.020	-4.020	0.000	0.000
3144	S028-permanente_di_p	396	Z	FT	glo	0.000	-1.003	0.000	0.000
3145	S028-permanente_di_p	397	Z	FT	glo	-1.003	-1.072	0.000	0.000
3146	S028-permanente_di_p	398	Z	FT	glo	-1.072	-1.112	0.000	0.000
3147	S028-permanente_di_p	420	Z	FT	glo	-5.676	-5.676	0.000	0.000
3148	S028-permanente_di_p	422	Z	FT	glo	-2.992	-6.805	0.000	0.000
3149	S028-permanente_di_p	423	Z	FT	glo	-5.676	-5.676	0.000	0.000
3150	S029-permanente_di_p	394	Z	FT	glo	0.000	-0.243	0.000	0.000
3151	S029-permanente_di_p	395	Z	FT	glo	-0.243	-1.004	0.000	0.000
3152	S029-permanente_di_p	419	Z	FT	glo	-0.219	-5.965	0.000	0.000
3153	S029-permanente_di_p	421	Z	FT	glo	-5.124	-5.124	0.000	0.000
3154	S029-permanente_di_p	422	Z	FT	glo	-5.124	-5.124	0.000	0.000
3155	S029-permanente_di_p	424	Z	FT	glo	-5.124	-5.124	0.000	0.000
3156	S029-permanente_di_p	427	Z	FT	glo	-5.124	-5.124	0.000	0.000
3157	S030-permanente_di_p	426	Z	FT	glo	-4.200	-4.200	0.000	0.000
3158	S030-permanente_di_p	435	Z	FT	glo	-4.200	-4.200	0.000	0.000
3159	S030-permanente_di_p	436	Z	FT	glo	-4.200	-4.200	0.000	0.000
3160	S030-permanente_di_p	438	Z	FT	glo	-4.200	-4.200	0.000	0.000
3161	S030-permanente_di_p	439	Z	FT	glo	-4.200	-4.200	0.000	0.000
3162	S031-permanente_di_p	429	Z	FT	glo	-4.200	-4.200	0.000	0.000
3163	S031-permanente_di_p	440	Z	FT	glo	-4.200	-4.200	0.000	0.000
3164	S031-permanente_di_p	441	Z	FT	glo	-4.200	-4.200	0.000	0.000
3165	S031-permanente_di_p	443	Z	FT	glo	-4.200	-4.200	0.000	0.000
3166	S031-permanente_di_p	444	Z	FT	glo	-4.200	-4.200	0.000	0.000
3167	S036-permanente_di_p	518	Z	FT	glo	-5.580	-5.580	0.000	0.000
3168	S036-permanente_di_p	519	Z	FT	glo	-5.580	-5.580	0.000	0.000
3169	S037-permanente_di_p	514	Z	FT	glo	-4.860	-4.860	0.000	0.000
3170	S037-permanente_di_p	519	Z	FT	glo	-4.860	-4.860	0.000	0.000
3171	S037-permanente_di_p	532	Z	FT	glo	-4.860	-4.860	0.000	0.000
3172	S038-permanente_di_p	517	Z	FT	glo	-3.960	-3.960	0.000	0.000
3173	S038-permanente_di_p	520	Z	FT	glo	-3.960	-3.960	0.000	0.000
3174	S038-permanente_di_p	535	Z	FT	glo	-3.960	-3.960	0.000	0.000
3175	S039-permanente_di_p	508	Z	FT	glo	-4.800	-4.800	0.000	0.000
3176	S039-permanente_di_p	540	Z	FT	glo	-4.800	-4.800	0.000	0.000
3177	S040-permanente_di_p	509	Z	FT	glo	-4.800	-4.800	0.000	0.000
3178	S040-permanente_di_p	541	Z	FT	glo	-4.800	-4.800	0.000	0.000
3179	S041-permanente_di_p	510	Z	FT	glo	-4.800	-4.800	0.000	0.000
3180	S041-permanente_di_p	542	Z	FT	glo	-4.800	-4.800	0.000	0.000
3181	S042-permanente_di_p	511	Z	FT	glo	-4.800	-4.800	0.000	0.000
3182	S042-permanente_di_p	543	Z	FT	glo	-4.800	-4.800	0.000	0.000
3183	S043-permanente_di_p	512	Z	FT	glo	-4.800	-4.800	0.000	0.000
3184	S043-permanente_di_p	544	Z	FT	glo	-4.800	-4.800	0.000	0.000
3185	S044-permanente_di_p	525	Z	FT	glo	-4.020	-4.020	0.000	0.000
3186	S044-permanente_di_p	526	Z	FT	glo	-4.020	-4.020	0.000	0.000
3187	S045-permanente_di_p	536	Z	FT	glo	-7.140	-7.140	0.000	0.000
3188	S045-permanente_di_p	559	Z	FT	glo	-7.140	-7.140	0.000	0.000
3189	S046-permanente_di_p	537	Z	FT	glo	-7.140	-7.140	0.000	0.000
3190	S046-permanente_di_p	560	Z	FT	glo	-7.140	-7.140	0.000	0.000
3191	S047-permanente_di_p	538	Z	FT	glo	-7.140	-7.140	0.000	0.000
3192	S047-permanente_di_p	561	Z	FT	glo	-7.140	-7.140	0.000	0.000
3193	S047-permanente_di_p	562	Z	FT	glo	-7.140	-7.140	0.000	0.000
3194	S047-permanente_di_p	563	Z	FT	glo	-7.140	-7.140	0.000	0.000
3195	S048-permanente_di_p	539	Z	FT	glo	-7.140	-7.140	0.000	0.000
3196	S048-permanente_di_p	564	Z	FT	glo	-7.140	-7.140	0.000	0.000
3197	S049-permanente_di_p	540	Z	FT	glo	-7.140	-7.140	0.000	0.000
3198	S049-permanente_di_p	565	Z	FT	glo	-7.140	-7.140	0.000	0.000
3199	S049-permanente_di_p	566	Z	FT	glo	-7.140	-7.140	0.000	0.000
3200	S050-permanente_di_p	541	Z	FT	glo	-7.140	-7.140	0.000	0.000
3201	S050-permanente_di_p	567	Z	FT	glo	-7.140	-7.140	0.000	0.000
3202	S050-permanente_di_p	568	Z	FT	glo	-7.140	-7.140	0.000	0.000
3203	S050-permanente_di_p	569	Z	FT	glo	-7.140	-7.140	0.000	0.000
3204	S051-permanente_di_p	542	Z	FT	glo	-7.140	-7.140	0.000	0.000
3205	S051-permanente_di_p	570	Z	FT	glo	-7.140	-7.140	0.000	0.000
3206	S052-permanente_di_p	555	Z	FT	glo	-5.220	-5.220	0.000	0.000
3207	S052-permanente_di_p	556	Z	FT	glo	-5.220	-5.220	0.000	0.000
3208	S053-permanente_di_p	556	Z	FT	glo	-5.220	-5.220	0.000	0.000
3209	S053-permanente_di_p	557	Z	FT	glo	-5.220	-5.220	0.000	0.000
3210	S054-permanente_di_p	565	Z	FT	glo	0.000	-1.003	0.000	0.000
3211	S054-permanente_di_p	566	Z	FT	glo	-1.003	-1.072	0.000	0.000
3212	S054-permanente_di_p	567	Z	FT	glo	-1.072	-1.112	0.000	0.000
3213	S054-permanente_di_p	573	Z	FT	glo	-5.676	-5.676	0.000	0.000
3214	S054-permanente_di_p	574	Z	FT	glo	-2.992	-6.805	0.000	0.000
3215	S055-permanente_di_p	563	Z	FT	glo	0.000	-0.243	0.000	0.000
3216	S055-permanente_di_p	564	Z	FT	glo	-0.243	-1.004	0.000	0.000
3217	S055-permanente_di_p	574	Z	FT	glo	-5.124	-5.124	0.000	0.000
3218	S055-permanente_di_p	575	Z	FT	glo	-3.294	-5.939	0.000	0.000
3219	S056-permanente_di_p	576	Z	FT	glo	-4.200	-4.200	0.000	0.000
3220	S056-permanente_di_p	581	Z	FT	glo	-4.200	-4.200	0.000	0.000

3221	S057-permanente_di_p	577	Z	FT glo	-4.200	-4.200	0.000	0.000
3222	S057-permanente_di_p	582	Z	FT glo	-4.200	-4.200	0.000	0.000
3223	S058-permanente_di_p	641	Z	FT glo	-5.580	-5.580	0.000	0.000
3224	S058-permanente_di_p	642	Z	FT glo	-5.580	-5.580	0.000	0.000
3225	S059-permanente_di_p	637	Z	FT glo	-4.860	-4.860	0.000	0.000
3226	S059-permanente_di_p	642	Z	FT glo	-4.860	-4.860	0.000	0.000
3227	S059-permanente_di_p	655	Z	FT glo	-4.860	-4.860	0.000	0.000
3228	S060-permanente_di_p	640	Z	FT glo	-3.960	-3.960	0.000	0.000
3229	S060-permanente_di_p	643	Z	FT glo	-3.960	-3.960	0.000	0.000
3230	S060-permanente_di_p	658	Z	FT glo	-3.960	-3.960	0.000	0.000
3231	S061-permanente_di_p	631	Z	FT glo	-4.800	-4.800	0.000	0.000
3232	S061-permanente_di_p	663	Z	FT glo	-4.800	-4.800	0.000	0.000
3233	S062-permanente_di_p	632	Z	FT glo	-4.800	-4.800	0.000	0.000
3234	S062-permanente_di_p	664	Z	FT glo	-4.800	-4.800	0.000	0.000
3235	S063-permanente_di_p	633	Z	FT glo	-4.800	-4.800	0.000	0.000
3236	S063-permanente_di_p	665	Z	FT glo	-4.800	-4.800	0.000	0.000
3237	S064-permanente_di_p	634	Z	FT glo	-4.800	-4.800	0.000	0.000
3238	S064-permanente_di_p	666	Z	FT glo	-4.800	-4.800	0.000	0.000
3239	S065-permanente_di_p	635	Z	FT glo	-4.800	-4.800	0.000	0.000
3240	S065-permanente_di_p	667	Z	FT glo	-4.800	-4.800	0.000	0.000
3241	S066-permanente_di_p	648	Z	FT glo	-4.020	-4.020	0.000	0.000
3242	S066-permanente_di_p	649	Z	FT glo	-4.020	-4.020	0.000	0.000
3243	S067-permanente_di_p	659	Z	FT glo	-7.140	-7.140	0.000	0.000
3244	S067-permanente_di_p	681	Z	FT glo	-7.140	-7.140	0.000	0.000
3245	S068-permanente_di_p	660	Z	FT glo	-7.140	-7.140	0.000	0.000
3246	S068-permanente_di_p	682	Z	FT glo	-7.140	-7.140	0.000	0.000
3247	S069-permanente_di_p	661	Z	FT glo	-7.140	-7.140	0.000	0.000
3248	S069-permanente_di_p	683	Z	FT glo	-7.140	-7.140	0.000	0.000
3249	S069-permanente_di_p	684	Z	FT glo	-7.140	-7.140	0.000	0.000
3250	S069-permanente_di_p	685	Z	FT glo	-7.140	-7.140	0.000	0.000
3251	S070-permanente_di_p	662	Z	FT glo	-7.140	-7.140	0.000	0.000
3252	S070-permanente_di_p	686	Z	FT glo	-7.140	-7.140	0.000	0.000
3253	S071-permanente_di_p	663	Z	FT glo	-7.140	-7.140	0.000	0.000
3254	S071-permanente_di_p	687	Z	FT glo	-7.140	-7.140	0.000	0.000
3255	S071-permanente_di_p	688	Z	FT glo	-7.140	-7.140	0.000	0.000
3256	S072-permanente_di_p	664	Z	FT glo	-7.140	-7.140	0.000	0.000
3257	S072-permanente_di_p	689	Z	FT glo	-7.140	-7.140	0.000	0.000
3258	S072-permanente_di_p	690	Z	FT glo	-7.140	-7.140	0.000	0.000
3259	S072-permanente_di_p	691	Z	FT glo	-7.140	-7.140	0.000	0.000
3260	S073-permanente_di_p	665	Z	FT glo	-7.140	-7.140	0.000	0.000
3261	S073-permanente_di_p	692	Z	FT glo	-7.140	-7.140	0.000	0.000
3262	S074-permanente_di_p	677	Z	FT glo	-5.220	-5.220	0.000	0.000
3263	S074-permanente_di_p	678	Z	FT glo	-5.220	-5.220	0.000	0.000
3264	S075-permanente_di_p	678	Z	FT glo	-5.220	-5.220	0.000	0.000
3265	S075-permanente_di_p	679	Z	FT glo	-5.220	-5.220	0.000	0.000
3268	S081-Permanente_cope	752	Z	FT glo	-3.720	-3.720	0.000	0.000
3269	S081-Permanente_cope	753	Z	FT glo	-3.720	-3.720	0.000	0.000
3270	S082-Permanente_cope	753	Z	FT glo	-3.240	-3.240	0.000	0.000
3271	S082-Permanente_cope	754	Z	FT glo	-3.240	-3.240	0.000	0.000
3273	S083-Permanente_cope	754	Z	FT glo	-0.599	-1.338	0.000	0.000
3274	S083-Permanente_cope	763	Z	FT glo	-1.324	-1.324	0.000	0.000
3275	S083-Permanente_cope	765	Z	FT glo	-1.324	-1.324	0.000	0.000
3278	S084-Permanente_cope	755	Z	FT glo	-0.595	-1.330	0.000	0.000
3279	S084-Permanente_cope	764	Z	FT glo	-1.316	-1.316	0.000	0.000
3280	S084-Permanente_cope	766	Z	FT glo	-1.316	-1.316	0.000	0.000
3282	S085-Permanente_cope	755	Z	FT glo	-2.640	-2.640	0.000	0.000
3283	S085-Permanente_cope	756	Z	FT glo	-2.640	-2.640	0.000	0.000
3284	S086-Permanente_cope	742	Z	FT glo	-3.200	-3.200	0.000	0.000
3285	S086-Permanente_cope	775	Z	FT glo	-3.200	-3.200	0.000	0.000
3286	S087-Permanente_cope	743	Z	FT glo	-3.200	-3.200	0.000	0.000
3287	S087-Permanente_cope	776	Z	FT glo	-3.200	-3.200	0.000	0.000
3288	S088-Permanente_cope	744	Z	FT glo	-3.200	-3.200	0.000	0.000
3289	S088-Permanente_cope	777	Z	FT glo	-3.200	-3.200	0.000	0.000
3290	S089-Permanente_cope	745	Z	FT glo	-3.200	-3.200	0.000	0.000
3291	S089-Permanente_cope	778	Z	FT glo	-3.200	-3.200	0.000	0.000
3292	S090-Permanente_cope	746	Z	FT glo	-3.200	-3.200	0.000	0.000
3293	S090-Permanente_cope	779	Z	FT glo	-3.200	-3.200	0.000	0.000
3294	S091-Permanente_cope	761	Z	FT glo	-2.680	-2.680	0.000	0.000
3295	S091-Permanente_cope	762	Z	FT glo	-2.680	-2.680	0.000	0.000
3298	S093-Permanente_cope	771	Z	FT glo	-4.760	-4.760	0.000	0.000
3299	S093-Permanente_cope	792	Z	FT glo	-4.760	-4.760	0.000	0.000
3300	S094-Permanente_cope	772	Z	FT glo	-4.760	-4.760	0.000	0.000
3301	S094-Permanente_cope	793	Z	FT glo	-4.760	-4.760	0.000	0.000
3302	S095-Permanente_cope	773	Z	FT glo	-4.760	-4.760	0.000	0.000
3303	S095-Permanente_cope	794	Z	FT glo	-4.760	-4.760	0.000	0.000
3304	S096-Permanente_cope	774	Z	FT glo	-4.760	-4.760	0.000	0.000
3305	S096-Permanente_cope	795	Z	FT glo	-4.760	-4.760	0.000	0.000
3306	S097-Permanente_cope	775	Z	FT glo	-4.760	-4.760	0.000	0.000
3307	S097-Permanente_cope	796	Z	FT glo	-4.760	-4.760	0.000	0.000
3308	S098-Permanente_cope	776	Z	FT glo	-4.760	-4.760	0.000	0.000
3309	S098-Permanente_cope	797	Z	FT glo	-4.760	-4.760	0.000	0.000
3310	S099-Permanente_cope	777	Z	FT glo	-4.760	-4.760	0.000	0.000
3311	S099-Permanente_cope	798	Z	FT glo	-4.760	-4.760	0.000	0.000
3312	S100-Permanente_cope	788	Z	FT glo	-3.480	-3.480	0.000	0.000
3313	S100-Permanente_cope	789	Z	FT glo	-3.480	-3.480	0.000	0.000
3314	S101-Permanente_cope	789	Z	FT glo	-3.480	-3.480	0.000	0.000
3315	S101-Permanente_cope	790	Z	FT glo	-3.480	-3.480	0.000	0.000
3316	S102-Permanente_cope	790	Z	FT glo	-2.680	-2.680	0.000	0.000



3317	S102-Permanente_cope	791	Z	FT	glo	-2.680	-2.680	0.000	0.000
3318	S077-Permanente_cope	685	Z	FT	glo	0.000	-0.162	0.000	0.000
3319	S077-Permanente_cope	686	Z	FT	glo	-0.162	-0.669	0.000	0.000
3320	S077-Permanente_cope	696	Z	FT	glo	-3.416	-3.416	0.000	0.000
3321	S077-Permanente_cope	697	Z	FT	glo	-2.196	-3.959	0.000	0.000
3322	S079-Permanente_cope	699	Z	FT	glo	-2.800	-2.800	0.000	0.000
3323	S079-Permanente_cope	704	Z	FT	glo	-2.800	-2.800	0.000	0.000
3324	S078-Permanente_cope	698	Z	FT	glo	-2.800	-2.800	0.000	0.000
3325	S078-Permanente_cope	703	Z	FT	glo	-2.800	-2.800	0.000	0.000
3326	S076-Permanente_cope	687	Z	FT	glo	0.000	-0.669	0.000	0.000
3327	S076-Permanente_cope	688	Z	FT	glo	-0.669	-0.715	0.000	0.000
3328	S076-Permanente_cope	689	Z	FT	glo	-0.715	-0.741	0.000	0.000
3329	S076-Permanente_cope	695	Z	FT	glo	-3.784	-3.784	0.000	0.000
3330	S076-Permanente_cope	696	Z	FT	glo	-1.995	-4.537	0.000	0.000
3331	S034-Permanente_cope	500	Z	FT	glo	-3.080	-3.080	0.000	0.000
3332	S034-Permanente_cope	501	Z	FT	glo	-3.080	-3.080	0.000	0.000
3333	S035-Permanente_cope	501	Z	FT	glo	-3.880	-3.880	0.000	0.000
3334	S035-Permanente_cope	502	Z	FT	glo	-3.880	-3.880	0.000	0.000
3335	S032-Permanente_cope	493	Z	FT	glo	-3.640	-3.640	0.000	0.000
3336	S032-Permanente_cope	498	Z	FT	glo	-3.640	-3.640	0.000	0.000
3337	S033-Permanente_cope	496	Z	FT	glo	-3.880	-3.880	0.000	0.000
3338	S033-Permanente_cope	497	Z	FT	glo	-3.880	-3.880	0.000	0.000
3339	S001-variabile_di_pia	258	Z	FT	glo	-6.825	-6.825	0.000	0.000
3340	S001-variabile_di_pia	259	Z	FT	glo	-6.825	-6.825	0.000	0.000
3341	S001-variabile_di_pia	260	Z	FT	glo	-6.825	-6.825	0.000	0.000
3342	S001-variabile_di_pia	274	Z	FT	glo	-6.825	-6.825	0.000	0.000
3343	S002-variabile_di_pia	266	Z	FT	glo	-7.275	-7.275	0.000	0.000
3344	S002-variabile_di_pia	268	Z	FT	glo	-7.275	-7.275	0.000	0.000
3345	S002-variabile_di_pia	269	Z	FT	glo	-7.275	-7.275	0.000	0.000
3346	S002-variabile_di_pia	271	Z	FT	glo	-7.275	-7.275	0.000	0.000
3347	S002-variabile_di_pia	273	Z	FT	glo	-7.275	-7.275	0.000	0.000
3348	S003-variabile_di_pia	276	Z	FT	glo	-5.775	-5.775	0.000	0.000
3349	S003-variabile_di_pia	278	Z	FT	glo	-5.775	-5.775	0.000	0.000
3350	S003-variabile_di_pia	280	Z	FT	glo	-5.775	-5.775	0.000	0.000
3351	S003-variabile_di_pia	281	Z	FT	glo	-5.775	-5.775	0.000	0.000
3352	S003-variabile_di_pia	283	Z	FT	glo	-5.775	-5.775	0.000	0.000
3353	S004-variabile_di_pia	277	Z	FT	glo	-7.275	-7.275	0.000	0.000
3354	S004-variabile_di_pia	279	Z	FT	glo	-7.275	-7.275	0.000	0.000
3355	S004-variabile_di_pia	280	Z	FT	glo	-7.275	-7.275	0.000	0.000
3356	S004-variabile_di_pia	282	Z	FT	glo	-7.275	-7.275	0.000	0.000
3357	S004-variabile_di_pia	284	Z	FT	glo	-7.275	-7.275	0.000	0.000
3360	S006-variabile_di_pia	319	Z	FT	glo	-6.975	-6.975	0.000	0.000
3361	S006-variabile_di_pia	323	Z	FT	glo	-6.975	-6.975	0.000	0.000
3362	S006-variabile_di_pia	328	Z	FT	glo	-6.975	-6.975	0.000	0.000
3363	S006-variabile_di_pia	338	Z	FT	glo	-6.975	-6.975	0.000	0.000
3364	S006-variabile_di_pia	342	Z	FT	glo	-6.975	-6.975	0.000	0.000
3365	S007-variabile_di_pia	328	Z	FT	glo	-6.075	-6.075	0.000	0.000
3366	S007-variabile_di_pia	329	Z	FT	glo	-6.075	-6.075	0.000	0.000
3368	S008-variabile_di_pia	329	Z	FT	glo	-1.122	-2.508	0.000	0.000
3369	S008-variabile_di_pia	336	Z	FT	glo	-2.482	-2.482	0.000	0.000
3370	S008-variabile_di_pia	340	Z	FT	glo	-2.482	-2.482	0.000	0.000
3373	S009-variabile_di_pia	327	Z	FT	glo	-0.687	-3.082	0.000	0.000
3374	S009-variabile_di_pia	337	Z	FT	glo	-2.467	-2.467	0.000	0.000
3375	S009-variabile_di_pia	341	Z	FT	glo	-2.467	-2.467	0.000	0.000
3377	S009-variabile_di_pia	348	Z	FT	glo	-2.467	0.000	0.000	0.000
3378	S010-variabile_di_pia	327	Z	FT	glo	-4.950	-4.950	0.000	0.000
3379	S010-variabile_di_pia	330	Z	FT	glo	-4.950	-4.950	0.000	0.000
3380	S010-variabile_di_pia	348	Z	FT	glo	-4.950	-4.950	0.000	0.000
3381	S011-variabile_di_pia	296	Z	FT	glo	-6.000	-6.000	0.000	0.000
3382	S011-variabile_di_pia	297	Z	FT	glo	-6.000	-6.000	0.000	0.000
3383	S011-variabile_di_pia	298	Z	FT	glo	-6.000	-6.000	0.000	0.000
3384	S011-variabile_di_pia	299	Z	FT	glo	-6.000	-6.000	0.000	0.000
3385	S011-variabile_di_pia	353	Z	FT	glo	-6.000	-6.000	0.000	0.000
3386	S012-variabile_di_pia	300	Z	FT	glo	-6.000	-6.000	0.000	0.000
3387	S012-variabile_di_pia	301	Z	FT	glo	-6.000	-6.000	0.000	0.000
3388	S012-variabile_di_pia	302	Z	FT	glo	-6.000	-6.000	0.000	0.000
3389	S012-variabile_di_pia	303	Z	FT	glo	-6.000	-6.000	0.000	0.000
3390	S012-variabile_di_pia	354	Z	FT	glo	-6.000	-6.000	0.000	0.000
3391	S013-variabile_di_pia	304	Z	FT	glo	-6.000	-6.000	0.000	0.000
3392	S013-variabile_di_pia	305	Z	FT	glo	-6.000	-6.000	0.000	0.000
3393	S013-variabile_di_pia	306	Z	FT	glo	-6.000	-6.000	0.000	0.000
3394	S013-variabile_di_pia	307	Z	FT	glo	-6.000	-6.000	0.000	0.000
3395	S013-variabile_di_pia	355	Z	FT	glo	-6.000	-6.000	0.000	0.000
3396	S014-variabile_di_pia	308	Z	FT	glo	-6.000	-6.000	0.000	0.000
3397	S014-variabile_di_pia	309	Z	FT	glo	-6.000	-6.000	0.000	0.000
3398	S014-variabile_di_pia	310	Z	FT	glo	-6.000	-6.000	0.000	0.000
3399	S014-variabile_di_pia	311	Z	FT	glo	-6.000	-6.000	0.000	0.000
3400	S014-variabile_di_pia	356	Z	FT	glo	-6.000	-6.000	0.000	0.000
3401	S015-variabile_di_pia	312	Z	FT	glo	-6.000	-6.000	0.000	0.000
3402	S015-variabile_di_pia	313	Z	FT	glo	-6.000	-6.000	0.000	0.000
3403	S015-variabile_di_pia	314	Z	FT	glo	-6.000	-6.000	0.000	0.000
3404	S015-variabile_di_pia	315	Z	FT	glo	-6.000	-6.000	0.000	0.000
3405	S015-variabile_di_pia	357	Z	FT	glo	-6.000	-6.000	0.000	0.000
3406	S016-variabile_di_pia	320	Z	FT	glo	-5.025	-5.025	0.000	0.000
3407	S016-variabile_di_pia	324	Z	FT	glo	-5.025	-5.025	0.000	0.000
3408	S016-variabile_di_pia	335	Z	FT	glo	-5.025	-5.025	0.000	0.000
3409	S016-variabile_di_pia	339	Z	FT	glo	-5.025	-5.025	0.000	0.000
3410	S016-variabile_di_pia	343	Z	FT	glo	-5.025	-5.025	0.000	0.000



3501	S045-variabile_di_pia	536	Z	FT glo	-8.925	-8.925	0.000	0.000
3502	S045-variabile_di_pia	559	Z	FT glo	-8.925	-8.925	0.000	0.000
3503	S046-variabile_di_pia	537	Z	FT glo	-8.925	-8.925	0.000	0.000
3504	S046-variabile_di_pia	560	Z	FT glo	-8.925	-8.925	0.000	0.000
3505	S047-variabile_di_pia	538	Z	FT glo	-8.925	-8.925	0.000	0.000
3506	S047-variabile_di_pia	561	Z	FT glo	-8.925	-8.925	0.000	0.000
3507	S047-variabile_di_pia	562	Z	FT glo	-8.925	-8.925	0.000	0.000
3508	S047-variabile_di_pia	563	Z	FT glo	-8.925	-8.925	0.000	0.000
3509	S048-variabile_di_pia	539	Z	FT glo	-8.925	-8.925	0.000	0.000
3510	S048-variabile_di_pia	564	Z	FT glo	-8.925	-8.925	0.000	0.000
3511	S049-variabile_di_pia	540	Z	FT glo	-8.925	-8.925	0.000	0.000
3512	S049-variabile_di_pia	565	Z	FT glo	-8.925	-8.925	0.000	0.000
3513	S049-variabile_di_pia	566	Z	FT glo	-8.925	-8.925	0.000	0.000
3514	S050-variabile_di_pia	541	Z	FT glo	-8.925	-8.925	0.000	0.000
3515	S050-variabile_di_pia	567	Z	FT glo	-8.925	-8.925	0.000	0.000
3516	S050-variabile_di_pia	568	Z	FT glo	-8.925	-8.925	0.000	0.000
3517	S050-variabile_di_pia	569	Z	FT glo	-8.925	-8.925	0.000	0.000
3518	S051-variabile_di_pia	542	Z	FT glo	-8.925	-8.925	0.000	0.000
3519	S051-variabile_di_pia	570	Z	FT glo	-8.925	-8.925	0.000	0.000
3520	S052-variabile_di_pia	555	Z	FT glo	-6.525	-6.525	0.000	0.000
3521	S052-variabile_di_pia	556	Z	FT glo	-6.525	-6.525	0.000	0.000
3522	S053-variabile_di_pia	556	Z	FT glo	-6.525	-6.525	0.000	0.000
3523	S053-variabile_di_pia	557	Z	FT glo	-6.525	-6.525	0.000	0.000
3524	S054-variabile_di_pia	565	Z	FT glo	0.000	-1.254	0.000	0.000
3525	S054-variabile_di_pia	566	Z	FT glo	-1.254	-1.340	0.000	0.000
3526	S054-variabile_di_pia	567	Z	FT glo	-1.340	-1.390	0.000	0.000
3527	S054-variabile_di_pia	573	Z	FT glo	-7.095	-7.095	0.000	0.000
3528	S054-variabile_di_pia	574	Z	FT glo	-3.740	-8.506	0.000	0.000
3529	S055-variabile_di_pia	563	Z	FT glo	0.000	-0.304	0.000	0.000
3530	S055-variabile_di_pia	564	Z	FT glo	-0.304	-1.255	0.000	0.000
3531	S055-variabile_di_pia	574	Z	FT glo	-6.405	-6.405	0.000	0.000
3532	S055-variabile_di_pia	575	Z	FT glo	-4.117	-7.423	0.000	0.000
3533	S056-variabile_di_pia	576	Z	FT glo	-5.250	-5.250	0.000	0.000
3534	S056-variabile_di_pia	581	Z	FT glo	-5.250	-5.250	0.000	0.000
3535	S057-variabile_di_pia	577	Z	FT glo	-5.250	-5.250	0.000	0.000
3536	S057-variabile_di_pia	582	Z	FT glo	-5.250	-5.250	0.000	0.000
3537	S058-variabile_di_pia	641	Z	FT glo	-6.975	-6.975	0.000	0.000
3538	S058-variabile_di_pia	642	Z	FT glo	-6.975	-6.975	0.000	0.000
3539	S059-variabile_di_pia	637	Z	FT glo	-6.075	-6.075	0.000	0.000
3540	S059-variabile_di_pia	642	Z	FT glo	-6.075	-6.075	0.000	0.000
3541	S059-variabile_di_pia	655	Z	FT glo	-6.075	-6.075	0.000	0.000
3542	S060-variabile_di_pia	640	Z	FT glo	-4.950	-4.950	0.000	0.000
3543	S060-variabile_di_pia	643	Z	FT glo	-4.950	-4.950	0.000	0.000
3544	S060-variabile_di_pia	658	Z	FT glo	-4.950	-4.950	0.000	0.000
3545	S061-variabile_di_pia	631	Z	FT glo	-6.000	-6.000	0.000	0.000
3546	S061-variabile_di_pia	663	Z	FT glo	-6.000	-6.000	0.000	0.000
3547	S062-variabile_di_pia	632	Z	FT glo	-6.000	-6.000	0.000	0.000
3548	S062-variabile_di_pia	664	Z	FT glo	-6.000	-6.000	0.000	0.000
3549	S063-variabile_di_pia	633	Z	FT glo	-6.000	-6.000	0.000	0.000
3550	S063-variabile_di_pia	665	Z	FT glo	-6.000	-6.000	0.000	0.000
3551	S064-variabile_di_pia	634	Z	FT glo	-6.000	-6.000	0.000	0.000
3552	S064-variabile_di_pia	666	Z	FT glo	-6.000	-6.000	0.000	0.000
3553	S065-variabile_di_pia	635	Z	FT glo	-6.000	-6.000	0.000	0.000
3554	S065-variabile_di_pia	667	Z	FT glo	-6.000	-6.000	0.000	0.000
3555	S066-variabile_di_pia	648	Z	FT glo	-5.025	-5.025	0.000	0.000
3556	S066-variabile_di_pia	649	Z	FT glo	-5.025	-5.025	0.000	0.000
3557	S067-variabile_di_pia	659	Z	FT glo	-8.925	-8.925	0.000	0.000
3558	S067-variabile_di_pia	681	Z	FT glo	-8.925	-8.925	0.000	0.000
3559	S068-variabile_di_pia	660	Z	FT glo	-8.925	-8.925	0.000	0.000
3560	S068-variabile_di_pia	682	Z	FT glo	-8.925	-8.925	0.000	0.000
3561	S069-variabile_di_pia	661	Z	FT glo	-8.925	-8.925	0.000	0.000
3562	S069-variabile_di_pia	683	Z	FT glo	-8.925	-8.925	0.000	0.000
3563	S069-variabile_di_pia	684	Z	FT glo	-8.925	-8.925	0.000	0.000
3564	S069-variabile_di_pia	685	Z	FT glo	-8.925	-8.925	0.000	0.000
3565	S070-variabile_di_pia	662	Z	FT glo	-8.925	-8.925	0.000	0.000
3566	S070-variabile_di_pia	686	Z	FT glo	-8.925	-8.925	0.000	0.000
3567	S071-variabile_di_pia	663	Z	FT glo	-8.925	-8.925	0.000	0.000
3568	S071-variabile_di_pia	687	Z	FT glo	-8.925	-8.925	0.000	0.000
3569	S071-variabile_di_pia	688	Z	FT glo	-8.925	-8.925	0.000	0.000
3570	S072-variabile_di_pia	664	Z	FT glo	-8.925	-8.925	0.000	0.000
3571	S072-variabile_di_pia	689	Z	FT glo	-8.925	-8.925	0.000	0.000
3572	S072-variabile_di_pia	690	Z	FT glo	-8.925	-8.925	0.000	0.000
3573	S072-variabile_di_pia	691	Z	FT glo	-8.925	-8.925	0.000	0.000
3574	S073-variabile_di_pia	665	Z	FT glo	-8.925	-8.925	0.000	0.000
3575	S073-variabile_di_pia	692	Z	FT glo	-8.925	-8.925	0.000	0.000
3576	S074-variabile_di_pia	677	Z	FT glo	-6.525	-6.525	0.000	0.000
3577	S074-variabile_di_pia	678	Z	FT glo	-6.525	-6.525	0.000	0.000
3578	S075-variabile_di_pia	678	Z	FT glo	-6.525	-6.525	0.000	0.000
3579	S075-variabile_di_pia	679	Z	FT glo	-6.525	-6.525	0.000	0.000
3580	S032-var_cop_pratic	493	Z	FT glo	-6.825	-6.825	0.000	0.000
3581	S032-var_cop_pratic	498	Z	FT glo	-6.825	-6.825	0.000	0.000
3582	S034-var_cop_pratic	500	Z	FT glo	-5.775	-5.775	0.000	0.000
3583	S034-var_cop_pratic	501	Z	FT glo	-5.775	-5.775	0.000	0.000
3584	S035-var_cop_pratic	501	Z	FT glo	-7.275	-7.275	0.000	0.000
3585	S035-var_cop_pratic	502	Z	FT glo	-7.275	-7.275	0.000	0.000
3586	S033-var_cop_pratic	496	Z	FT glo	-7.275	-7.275	0.000	0.000
3587	S033-var_cop_pratic	497	Z	FT glo	-7.275	-7.275	0.000	0.000
3590	S081-var_cop_non_pra	752	Z	FT glo	-1.163	-1.163	0.000	0.000

3591	S081-var_cop_non_pra	753	Z	FT glo	-1.163	-1.163	0.000	0.000
3592	S082-var_cop_non_pra	753	Z	FT glo	-1.012	-1.012	0.000	0.000
3593	S082-var_cop_non_pra	754	Z	FT glo	-1.012	-1.012	0.000	0.000
3595	S083-var_cop_non_pra	754	Z	FT glo	-0.187	-0.418	0.000	0.000
3596	S083-var_cop_non_pra	763	Z	FT glo	-0.414	-0.414	0.000	0.000
3597	S083-var_cop_non_pra	765	Z	FT glo	-0.414	-0.414	0.000	0.000
3600	S084-var_cop_non_pra	755	Z	FT glo	-0.186	-0.416	0.000	0.000
3601	S084-var_cop_non_pra	764	Z	FT glo	-0.411	-0.411	0.000	0.000
3602	S084-var_cop_non_pra	766	Z	FT glo	-0.411	-0.411	0.000	0.000
3604	S085-var_cop_non_pra	755	Z	FT glo	-0.825	-0.825	0.000	0.000
3605	S085-var_cop_non_pra	756	Z	FT glo	-0.825	-0.825	0.000	0.000
3606	S086-var_cop_non_pra	742	Z	FT glo	-1.000	-1.000	0.000	0.000
3607	S086-var_cop_non_pra	775	Z	FT glo	-1.000	-1.000	0.000	0.000
3608	S087-var_cop_non_pra	743	Z	FT glo	-1.000	-1.000	0.000	0.000
3609	S087-var_cop_non_pra	776	Z	FT glo	-1.000	-1.000	0.000	0.000
3610	S088-var_cop_non_pra	744	Z	FT glo	-1.000	-1.000	0.000	0.000
3611	S088-var_cop_non_pra	777	Z	FT glo	-1.000	-1.000	0.000	0.000
3612	S089-var_cop_non_pra	745	Z	FT glo	-1.000	-1.000	0.000	0.000
3613	S089-var_cop_non_pra	778	Z	FT glo	-1.000	-1.000	0.000	0.000
3614	S090-var_cop_non_pra	746	Z	FT glo	-1.000	-1.000	0.000	0.000
3615	S090-var_cop_non_pra	779	Z	FT glo	-1.000	-1.000	0.000	0.000
3616	S091-var_cop_non_pra	761	Z	FT glo	-0.838	-0.838	0.000	0.000
3617	S091-var_cop_non_pra	762	Z	FT glo	-0.838	-0.838	0.000	0.000
3618	S092-var_cop_non_pra	769	Z	FT glo	-0.387	-0.150	0.000	0.000
3619	S092-var_cop_non_pra	770	Z	FT glo	-0.151	-0.389	0.000	0.000
3620	S093-var_cop_non_pra	771	Z	FT glo	-1.488	-1.488	0.000	0.000
3621	S093-var_cop_non_pra	792	Z	FT glo	-1.488	-1.488	0.000	0.000
3622	S094-var_cop_non_pra	772	Z	FT glo	-1.488	-1.488	0.000	0.000
3623	S094-var_cop_non_pra	793	Z	FT glo	-1.488	-1.488	0.000	0.000
3624	S095-var_cop_non_pra	773	Z	FT glo	-1.488	-1.488	0.000	0.000
3625	S095-var_cop_non_pra	794	Z	FT glo	-1.488	-1.488	0.000	0.000
3626	S096-var_cop_non_pra	774	Z	FT glo	-1.488	-1.488	0.000	0.000
3627	S096-var_cop_non_pra	795	Z	FT glo	-1.488	-1.488	0.000	0.000
3628	S097-var_cop_non_pra	775	Z	FT glo	-1.488	-1.488	0.000	0.000
3629	S097-var_cop_non_pra	796	Z	FT glo	-1.488	-1.488	0.000	0.000
3630	S098-var_cop_non_pra	776	Z	FT glo	-1.488	-1.488	0.000	0.000
3631	S098-var_cop_non_pra	797	Z	FT glo	-1.488	-1.488	0.000	0.000
3632	S099-var_cop_non_pra	777	Z	FT glo	-1.488	-1.488	0.000	0.000
3633	S099-var_cop_non_pra	798	Z	FT glo	-1.488	-1.488	0.000	0.000
3634	S100-var_cop_non_pra	788	Z	FT glo	-1.087	-1.087	0.000	0.000
3635	S100-var_cop_non_pra	789	Z	FT glo	-1.087	-1.087	0.000	0.000
3636	S101-var_cop_non_pra	789	Z	FT glo	-1.087	-1.087	0.000	0.000
3637	S101-var_cop_non_pra	790	Z	FT glo	-1.087	-1.087	0.000	0.000
3638	S102-var_cop_non_pra	790	Z	FT glo	-0.838	-0.838	0.000	0.000
3639	S102-var_cop_non_pra	791	Z	FT glo	-0.838	-0.838	0.000	0.000
3640	S077-var_cop_non_pra	685	Z	FT glo	0.000	-0.051	0.000	0.000
3641	S077-var_cop_non_pra	686	Z	FT glo	-0.051	-0.209	0.000	0.000
3642	S077-var_cop_non_pra	696	Z	FT glo	-1.067	-1.067	0.000	0.000
3643	S077-var_cop_non_pra	697	Z	FT glo	-0.686	-1.237	0.000	0.000
3644	S076-var_cop_non_pra	687	Z	FT glo	0.000	-0.209	0.000	0.000
3645	S076-var_cop_non_pra	688	Z	FT glo	-0.209	-0.223	0.000	0.000
3646	S076-var_cop_non_pra	689	Z	FT glo	-0.223	-0.232	0.000	0.000
3647	S076-var_cop_non_pra	695	Z	FT glo	-1.183	-1.183	0.000	0.000
3648	S076-var_cop_non_pra	696	Z	FT glo	-0.623	-1.418	0.000	0.000
3649	S078-var_cop_non_pra	698	Z	FT glo	-0.875	-0.875	0.000	0.000
3650	S078-var_cop_non_pra	703	Z	FT glo	-0.875	-0.875	0.000	0.000
3651	S079-var_cop_non_pra	699	Z	FT glo	-0.875	-0.875	0.000	0.000
3652	S079-var_cop_non_pra	704	Z	FT glo	-0.875	-0.875	0.000	0.000
3653	VENTO_Ya8	446	Y	A14	-0.00360			
3654	VENTO_Ya8	448	Y	A14	-0.00360			
3655	VENTO_Ya8	450	Y	A14	-0.00360			
3656	VENTO_Ya8	451	Y	A14	-0.00360			
3657	VENTO_Ya8	453	Y	A14	-0.00360			
3658	VENTO_Ya8	454	Y	A14	-0.00360			
3659	VENTO_Ya8	462	Y	A14	-0.00360			
3660	VENTO_Ya8	463	Y	A14	-0.00360			
3661	VENTO_Ya8	473	Y	A14	-0.00360			
3662	VENTO_Ya8	474	Y	A14	-0.00360			
3663	VENTO_Ya8	481	Y	A14	-0.00360			
3664	VENTO_Ya8	483	Y	A14	-0.00360			
3665	VENTO_Ya8	484	Y	A14	-0.00360			
3666	VENTO_Ya8	486	Y	A14	-0.00360			
3667	VENTO_Ya8	491	Y	A14	-0.00360			
3668	VENTO_Ya8	495	Y	A14	-0.00360			
3669	VENTO_Ya8	497	Y	A14	-0.00360			
3670	VENTO_Ya8	500	Y	A14	-0.00360			
3671	VENTO_Ya8	502	Y	A14	-0.00360			
3672	VENTO_Ya8	518	Y	A14	-0.00360			
3673	VENTO_Ya8	526	Y	A14	-0.00360			
3674	VENTO_Ya8	548	Y	A14	-0.00360			
3675	VENTO_Ya8	558	Y	A14	-0.00360			
3676	VENTO_Ya8	573	Y	A14	-0.00360			
3677	VENTO_Ya8	575	Y	A14	-0.00360			
3678	VENTO_Ya8	578	Y	A14	-0.00360			
3679	VENTO_Ya8	580	Y	A14	-0.00360			
3680	VENTO_Ya8	585	Y	A14	-0.00360			
3681	VENTO_Ya8	587	Y	A14	-0.00360			
3682	VENTO_Ya8	595	Y	A14	-0.00360			

3683	VENTO_Ya8	596	Y	A14	-0.00360
3684	VENTO_Ya8	606	Y	A14	-0.00360
3685	VENTO_Ya8	607	Y	A14	-0.00360
3686	VENTO_Ya8	614	Y	A14	-0.00360
3687	VENTO_Ya8	616	Y	A14	-0.00360
3688	VENTO_Ya8	617	Y	A14	-0.00360
3689	VENTO_Ya8	619	Y	A14	-0.00360
3690	VENTO_Ya8	625	Y	A14	-0.00360
3691	VENTO_Ya8	641	Y	A14	-0.00360
3692	VENTO_Ya8	649	Y	A14	-0.00360
3693	VENTO_Ya8	670	Y	A14	-0.00360
3694	VENTO_Ya8	680	Y	A14	-0.00360
3695	VENTO_Ya8	695	Y	A14	-0.00360
3696	VENTO_Ya8	697	Y	A14	-0.00360
3697	VENTO_Ya8	700	Y	A14	-0.00360
3698	VENTO_Ya8	702	Y	A14	-0.00360
3699	VENTO_Ya8	705	Y	A14	-0.00360
3700	VENTO_Ya8	715	Y	A14	-0.00360
3701	VENTO_Ya8	716	Y	A14	-0.00360
3702	VENTO_Ya8	726	Y	A14	-0.00360
3703	VENTO_Ya8	727	Y	A14	-0.00360
3704	VENTO_Ya8	737	Y	A14	-0.00360
3705	VENTO_Ya8	752	Y	A14	-0.00360
3706	VENTO_Ya8	762	Y	A14	-0.00360
3707	VENTO_Ya8	781	Y	A14	-0.00360
3708	VENTO_Ya8	791	Y	A14	-0.00360
3709	VENTO_Ya7	445	Y	A 7	-0.00360
3710	VENTO_Ya7	446	Y	A 7	-0.00360
3711	VENTO_Ya1	448	Y	A 1	0.00710
3712	VENTO_Ya1	449	Y	A 1	0.00710
3713	VENTO_Ya1	450	Y	A 1	0.00710
3714	VENTO_Ya2	454	Y	A 2	0.00710
3715	VENTO_Ya2	455	Y	A 2	0.00710
3716	VENTO_Ya4	457	Y	A 4	0.00710
3717	VENTO_Ya4	458	Y	A 4	0.00710
3718	VENTO_Ya4	459	Y	A 4	0.00710
3719	VENTO_Ya4	460	Y	A 4	0.00710
3720	VENTO_Ya4	461	Y	A 4	0.00710
3721	VENTO_Ya4	462	Y	A 4	0.00710
3722	VENTO_Ya5	474	Y	A 5	-0.00360
3723	VENTO_Ya5	475	Y	A 5	-0.00360
3724	VENTO_Ya5	476	Y	A 5	-0.00360
3725	VENTO_Ya7	478	Y	A 7	-0.00360
3726	VENTO_Ya7	479	Y	A 7	-0.00360
3727	VENTO_Ya7	480	Y	A 7	-0.00360
3728	VENTO_Ya8	484	Y	A14	-0.00360
3729	VENTO_Ya8	485	Y	A14	-0.00360
3730	VENTO_Ya8	486	Y	A14	-0.00360
3731	VENTO_Ya7	487	Y	A 7	-0.00360
3732	VENTO_Ya7	488	Y	A 7	-0.00360
3733	VENTO_Ya7	489	Y	A 7	-0.00360
3734	VENTO_Ya7	490	Y	A 7	-0.00360
3735	VENTO_Ya7	491	Y	A 7	-0.00360
3736	VENTO_Ya1	493	Y	A 1	0.00710
3737	VENTO_Ya1	494	Y	A 1	0.00710
3738	VENTO_Ya2	503	Y	A 2	0.00710
3739	VENTO_Ya2	504	Y	A 2	0.00710
3740	VENTO_Ya4	508	Y	A 4	0.00710
3741	VENTO_Ya4	509	Y	A 4	0.00710
3742	VENTO_Ya4	510	Y	A 4	0.00710
3743	VENTO_Ya4	511	Y	A 4	0.00710
3744	VENTO_Ya4	512	Y	A 4	0.00710
3745	VENTO_Ya4	513	Y	A 4	0.00710
3746	VENTO_Ya5	559	Y	A 5	-0.00360
3747	VENTO_Ya5	560	Y	A 5	-0.00360
3748	VENTO_Ya5	561	Y	A 5	-0.00360
3749	VENTO_Ya7	569	Y	A 7	-0.00360
3750	VENTO_Ya7	570	Y	A 7	-0.00360
3751	VENTO_Ya7	571	Y	A 7	-0.00360
3752	VENTO_Ya7	572	Y	A 7	-0.00360
3753	VENTO_Ya8	581	Y	A14	-0.00360
3754	VENTO_Ya8	582	Y	A14	-0.00360
3755	VENTO_Ya3	583	Y	A 3	0.00710
3756	VENTO_Ya7	584	Y	A 7	-0.00360
3757	VENTO_Ya7	585	Y	A 7	-0.00360
3758	VENTO_Ya2	586	Y	A 2	0.00710
3759	VENTO_Ya2	587	Y	A 2	0.00710
3760	VENTO_Ya2	588	Y	A 2	0.00710
3761	VENTO_Ya4	589	Y	A 4	0.00710
3762	VENTO_Ya4	590	Y	A 4	0.00710
3763	VENTO_Ya4	591	Y	A 4	0.00710
3764	VENTO_Ya4	592	Y	A 4	0.00710
3765	VENTO_Ya4	593	Y	A 4	0.00710
3766	VENTO_Ya4	594	Y	A 4	0.00710
3767	VENTO_Ya4	595	Y	A 4	0.00710
3768	VENTO_Ya5	607	Y	A 5	-0.00360
3769	VENTO_Ya5	608	Y	A 5	-0.00360
3770	VENTO_Ya5	609	Y	A 5	-0.00360

3771	VENTO_Ya7	611	Y	A	7	-0.00360			
3772	VENTO_Ya7	612	Y	A	7	-0.00360			
3773	VENTO_Ya7	613	Y	A	7	-0.00360			
3774	VENTO_Ya8	617	Y	A14		-0.00360			
3775	VENTO_Ya8	618	Y	A14		-0.00360			
3776	VENTO_Ya8	619	Y	A14		-0.00360			
3777	VENTO_Ya7	620	Y	A	7	-0.00360			
3778	VENTO_Ya7	621	Y	A	7	-0.00360			
3779	VENTO_Ya7	622	Y	A	7	-0.00360			
3780	VENTO_Ya3	623	Y	A	3	0.00710			
3781	VENTO_Ya7	624	Y	A	7	-0.00360			
3782	VENTO_Ya7	625	Y	A	7	-0.00360			
3783	VENTO_Ya2	626	Y	A	2	0.00710			
3784	VENTO_Ya2	627	Y	A	2	0.00710			
3785	VENTO_Ya2	628	Y	A	2	0.00710			
3786	VENTO_Ya3	629	Y	A	3	0.00710			
3787	VENTO_Ya3	630	Y	A	3	0.00710			
3788	VENTO_Ya4	631	Y	A	4	0.00710			
3789	VENTO_Ya4	632	Y	A	4	0.00710			
3790	VENTO_Ya4	633	Y	A	4	0.00710			
3791	VENTO_Ya4	634	Y	A	4	0.00710			
3792	VENTO_Ya4	635	Y	A	4	0.00710			
3793	VENTO_Ya4	636	Y	A	4	0.00710			
3794	VENTO_Ya5	681	Y	A	5	-0.00360			
3795	VENTO_Ya5	682	Y	A	5	-0.00360			
3796	VENTO_Ya5	683	Y	A	5	-0.00360			
3797	VENTO_Ya7	691	Y	A	7	-0.00360			
3798	VENTO_Ya7	692	Y	A	7	-0.00360			
3799	VENTO_Ya7	693	Y	A	7	-0.00360			
3800	VENTO_Ya7	694	Y	A	7	-0.00360			
3801	VENTO_Ya8	703	Y	A14		-0.00360			
3802	VENTO_Ya8	704	Y	A14		-0.00360			
3803	VENTO_Ya2	705	Y	A	2	0.00710			
3804	VENTO_Ya2	706	Y	A	2	0.00710			
3805	VENTO_Ya2	707	Y	A	2	0.00710			
3806	VENTO_Ya3	708	Y	A	3	0.00710			
3807	VENTO_Ya4	709	Y	A	4	0.00710			
3808	VENTO_Ya4	710	Y	A	4	0.00710			
3809	VENTO_Ya4	711	Y	A	4	0.00710			
3810	VENTO_Ya4	712	Y	A	4	0.00710			
3811	VENTO_Ya4	713	Y	A	4	0.00710			
3812	VENTO_Ya4	714	Y	A	4	0.00710			
3813	VENTO_Ya4	715	Y	A	4	0.00710			
3814	VENTO_Ya5	727	Y	A	5	-0.00360			
3815	VENTO_Ya5	728	Y	A	5	-0.00360			
3816	VENTO_Ya5	729	Y	A	5	-0.00360			
3817	VENTO_Ya6	730	Y	A	6	-0.00360			
3818	VENTO_Ya6	731	Y	A	6	-0.00360			
3819	VENTO_Ya6	732	Y	A	6	-0.00360			
3820	VENTO_Ya7	733	Y	A	7	-0.00360			
3821	VENTO_Ya7	734	Y	A	7	-0.00360			
3822	VENTO_Ya7	735	Y	A	7	-0.00360			
3823	VENTO_Ya7	736	Y	A	7	-0.00360			
3824	VENTO_Ya7	737	Y	A	7	-0.00360			
3825	VENTO_Ya2	738	Y	A	2	0.00710			
3826	VENTO_Ya2	739	Y	A	2	0.00710			
3827	VENTO_Ya3	740	Y	A	3	0.00710			
3828	VENTO_Ya3	741	Y	A	3	0.00710			
3829	VENTO_Ya4	742	Y	A	4	0.00710			
3830	VENTO_Ya4	743	Y	A	4	0.00710			
3831	VENTO_Ya4	744	Y	A	4	0.00710			
3832	VENTO_Ya4	745	Y	A	4	0.00710			
3833	VENTO_Ya4	746	Y	A	4	0.00710			
3834	VENTO_Ya4	747	Y	A	4	0.00710			
3835	VENTO_Ya5	792	Y	A	5	-0.00360			
3836	VENTO_Ya5	793	Y	A	5	-0.00360			
3837	VENTO_Ya5	794	Y	A	5	-0.00360			
3838	VENTO_Ya6	795	Y	A	6	-0.00360			
3839	VENTO_Ya6	796	Y	A	6	-0.00360			
3840	VENTO_Ya7	797	Y	A	7	-0.00360			
3841	VENTO_Ya7	798	Y	A	7	-0.00360			
3842	VENTO_Ya7	799	Y	A	7	-0.00360			
3843	VENTO_Ya7	800	Y	A	7	-0.00360			
3844	VENTO_Ya7	801	Y	A	7	-0.00360			
3847	S081-neve	752	Z	FT	glo	-1.163	-1.163	0.000	0.000
3848	S081-neve	753	Z	FT	glo	-1.163	-1.163	0.000	0.000
3849	S082-neve	753	Z	FT	glo	-1.012	-1.012	0.000	0.000
3850	S082-neve	754	Z	FT	glo	-1.012	-1.012	0.000	0.000
3852	S083-neve	754	Z	FT	glo	-0.187	-0.418	0.000	0.000
3853	S083-neve	763	Z	FT	glo	-0.414	-0.414	0.000	0.000
3854	S083-neve	765	Z	FT	glo	-0.414	-0.414	0.000	0.000
3857	S084-neve	755	Z	FT	glo	-0.186	-0.416	0.000	0.000
3858	S084-neve	764	Z	FT	glo	-0.411	-0.411	0.000	0.000
3859	S084-neve	766	Z	FT	glo	-0.411	-0.411	0.000	0.000
3861	S085-neve	755	Z	FT	glo	-0.825	-0.825	0.000	0.000
3862	S085-neve	756	Z	FT	glo	-0.825	-0.825	0.000	0.000
3863	S086-neve	742	Z	FT	glo	-1.000	-1.000	0.000	0.000
3864	S086-neve	775	Z	FT	glo	-1.000	-1.000	0.000	0.000

3865	S087-neve	743	Z	FT	glo	-1.000	-1.000	0.000	0.000
3866	S087-neve	776	Z	FT	glo	-1.000	-1.000	0.000	0.000
3867	S088-neve	744	Z	FT	glo	-1.000	-1.000	0.000	0.000
3868	S088-neve	777	Z	FT	glo	-1.000	-1.000	0.000	0.000
3869	S089-neve	745	Z	FT	glo	-1.000	-1.000	0.000	0.000
3870	S089-neve	778	Z	FT	glo	-1.000	-1.000	0.000	0.000
3871	S090-neve	746	Z	FT	glo	-1.000	-1.000	0.000	0.000
3872	S090-neve	779	Z	FT	glo	-1.000	-1.000	0.000	0.000
3873	S091-neve	761	Z	FT	glo	-0.838	-0.838	0.000	0.000
3874	S091-neve	762	Z	FT	glo	-0.838	-0.838	0.000	0.000
3877	S093-neve	771	Z	FT	glo	-1.488	-1.488	0.000	0.000
3878	S093-neve	792	Z	FT	glo	-1.488	-1.488	0.000	0.000
3879	S094-neve	772	Z	FT	glo	-1.488	-1.488	0.000	0.000
3880	S094-neve	793	Z	FT	glo	-1.488	-1.488	0.000	0.000
3881	S095-neve	773	Z	FT	glo	-1.488	-1.488	0.000	0.000
3882	S095-neve	794	Z	FT	glo	-1.488	-1.488	0.000	0.000
3883	S096-neve	774	Z	FT	glo	-1.488	-1.488	0.000	0.000
3884	S096-neve	795	Z	FT	glo	-1.488	-1.488	0.000	0.000
3885	S097-neve	775	Z	FT	glo	-1.488	-1.488	0.000	0.000
3886	S097-neve	796	Z	FT	glo	-1.488	-1.488	0.000	0.000
3887	S098-neve	776	Z	FT	glo	-1.488	-1.488	0.000	0.000
3888	S098-neve	797	Z	FT	glo	-1.488	-1.488	0.000	0.000
3889	S099-neve	777	Z	FT	glo	-1.488	-1.488	0.000	0.000
3890	S099-neve	798	Z	FT	glo	-1.488	-1.488	0.000	0.000
3891	S100-neve	788	Z	FT	glo	-1.087	-1.087	0.000	0.000
3892	S100-neve	789	Z	FT	glo	-1.087	-1.087	0.000	0.000
3893	S101-neve	789	Z	FT	glo	-1.087	-1.087	0.000	0.000
3894	S101-neve	790	Z	FT	glo	-1.087	-1.087	0.000	0.000
3895	S102-neve	790	Z	FT	glo	-0.838	-0.838	0.000	0.000
3896	S102-neve	791	Z	FT	glo	-0.838	-0.838	0.000	0.000
3897	S079-neve	699	Z	FT	glo	-0.875	-0.875	0.000	0.000
3898	S079-neve	704	Z	FT	glo	-0.875	-0.875	0.000	0.000
3899	S077-neve	685	Z	FT	glo	0.000	-0.051	0.000	0.000
3900	S077-neve	686	Z	FT	glo	-0.051	-0.209	0.000	0.000
3901	S077-neve	696	Z	FT	glo	-1.067	-1.067	0.000	0.000
3902	S077-neve	697	Z	FT	glo	-0.686	-1.237	0.000	0.000
3903	S076-neve	687	Z	FT	glo	0.000	-0.209	0.000	0.000
3904	S076-neve	688	Z	FT	glo	-0.209	-0.223	0.000	0.000
3905	S076-neve	689	Z	FT	glo	-0.223	-0.232	0.000	0.000
3906	S076-neve	695	Z	FT	glo	-1.183	-1.183	0.000	0.000
3907	S076-neve	696	Z	FT	glo	-0.623	-1.418	0.000	0.000
3908	S078-neve	698	Z	FT	glo	-0.875	-0.875	0.000	0.000
3909	S078-neve	703	Z	FT	glo	-0.875	-0.875	0.000	0.000
3910	S034-neve	500	Z	FT	glo	-0.963	-0.963	0.000	0.000
3911	S034-neve	501	Z	FT	glo	-0.963	-0.963	0.000	0.000
3912	S035-neve	501	Z	FT	glo	-1.212	-1.212	0.000	0.000
3913	S035-neve	502	Z	FT	glo	-1.212	-1.212	0.000	0.000
3914	S033-neve	496	Z	FT	glo	-1.212	-1.212	0.000	0.000
3915	S033-neve	497	Z	FT	glo	-1.212	-1.212	0.000	0.000
3916	S032-neve	493	Z	FT	glo	-1.137	-1.137	0.000	0.000
3917	S032-neve	498	Z	FT	glo	-1.137	-1.137	0.000	0.000

PESI PROPRI ASTE--|-----|-----|-----|-----|-----|  
Cond. Nome Carichi Aste  
1 3918-4349 216-227, 269, 274-275, 280, 293-295, 321-322,  
325-337, 340-341, 344-359, 366-374, 395-396,  
422, 426, 429, 432, 445-809  
2 4350-4726 1-215, 228-268, 270-273, 276-279, 281-292, 296-320,  
323-324, 338-339, 342-343, 360-365, 375-394,  
397-421, 423-425, 427-428, 430-431, 433-444

Nome	GUSCI	Dir	Tip	RIF	Intensita`	num.=
4727	Fossaascensore	7	Z	FD glo	-0.40000	844
4728	Fossaascensore	8	Z	FD glo	-0.40000	
4729	Fossaascensore	11	Z	FD glo	-0.40000	
4730	Fossaascensore	12	Z	FD glo	-0.40000	
4731	Fossaascensore	13	Z	FD glo	-0.40000	
4732	Fossaascensore	14	Z	FD glo	-0.40000	
4733	Permanentescala	315	Z	FD glo	-0.01600	
4734	Permanentescala	324	Z	FD glo	-0.01600	
4735	Permanentescala	332	Z	FD glo	-0.01600	
4736	Permanentescala	334	Z	FD glo	-0.01600	
4737	Permanentescala	341	Z	FD glo	-0.01600	
4738	Permanentescala	342	Z	FD glo	-0.01600	
4739	Permanentescala	343	Z	FD glo	-0.01600	
4740	Permanentescala	346	Z	FD glo	-0.01600	
4741	Permanentescala	349	Z	FD glo	-0.01600	
4742	Permanentescala	350	Z	FD glo	-0.01600	
4743	Permanentescala	351	Z	FD glo	-0.01600	
4744	Permanentescala	354	Z	FD glo	-0.01600	
4745	Permanentescala	363	Z	FD glo	-0.01600	
4746	Permanentescala	372	Z	FD glo	-0.01600	
4747	Permanentescala	373	Z	FD glo	-0.01600	
4748	Permanentescala	376	Z	FD glo	-0.01600	
4749	Permanentescala	383	Z	FD glo	-0.01600	
4750	Permanentescala	387	Z	FD glo	-0.01600	
4751	Permanentedipiano	388	Z	FD glo	-0.02400	

4752	Permanentedipiano	389	Z	FD glo	-0.02400
4753	Permanentedipiano	390	Z	FD glo	-0.02400
4754	Permanentedipiano	391	Z	FD glo	-0.02400
4755	Permanentescala	393	Z	FD glo	-0.01600
4756	Permanentescala	403	Z	FD glo	-0.01600
4757	Permanentescala	410	Z	FD glo	-0.01600
4758	Permanentescala	412	Z	FD glo	-0.01600
4759	Permanentescala	420	Z	FD glo	-0.01600
4760	Permanentescala	423	Z	FD glo	-0.01600
4761	Permanentescala	425	Z	FD glo	-0.01600
4762	Permanentescala	426	Z	FD glo	-0.01600
4763	Permanentescala	427	Z	FD glo	-0.01600
4764	Permanentescala	430	Z	FD glo	-0.01600
4765	Permanentescala	439	Z	FD glo	-0.01600
4766	Permanentescala	447	Z	FD glo	-0.01600
4767	Permanentescala	448	Z	FD glo	-0.01600
4768	Permanentescala	451	Z	FD glo	-0.01600
4769	Permanentescala	458	Z	FD glo	-0.01600
4770	Permanentescala	462	Z	FD glo	-0.01600
4771	Permanentedipiano	463	Z	FD glo	-0.02400
4772	Permanentedipiano	464	Z	FD glo	-0.02400
4773	Permanentedipiano	465	Z	FD glo	-0.02400
4774	Permanentedipiano	466	Z	FD glo	-0.02400
4775	Permanentecopertur	493	Z	FD glo	-0.01600
4776	Permanentecopertur	494	Z	FD glo	-0.01600
4777	Permanentecopertur	495	Z	FD glo	-0.01600
4778	Permanentecopertur	496	Z	FD glo	-0.01600
4779	Permanentecopertur	497	Z	FD glo	-0.01600
4780	Permanentecopertur	498	Z	FD glo	-0.01600
4781	Variabiledipiano	388	Z	FD glo	-0.03000
4782	Variabiledipiano	389	Z	FD glo	-0.03000
4783	Variabiledipiano	390	Z	FD glo	-0.03000
4784	Variabiledipiano	391	Z	FD glo	-0.03000
4785	Variabiledipiano	463	Z	FD glo	-0.03000
4786	Variabiledipiano	464	Z	FD glo	-0.03000
4787	Variabiledipiano	465	Z	FD glo	-0.03000
4788	Variabiledipiano	466	Z	FD glo	-0.03000
4789	Variabilecopnonpr	493	Z	FD glo	-0.00500
4790	Variabilecopnonpr	494	Z	FD glo	-0.00500
4791	Variabilecopnonpr	495	Z	FD glo	-0.00500
4792	Variabilecopnonpr	496	Z	FD glo	-0.00500
4793	Variabilecopnonpr	497	Z	FD glo	-0.00500
4794	Variabilecopnonpr	498	Z	FD glo	-0.00500
4795	Variabilescala	315	Z	FD glo	-0.04000
4796	Variabilescala	324	Z	FD glo	-0.04000
4797	Variabilescala	334	Z	FD glo	-0.04000
4798	Variabilescala	341	Z	FD glo	-0.04000
4799	Variabilescala	342	Z	FD glo	-0.04000
4800	Variabilescala	343	Z	FD glo	-0.04000
4801	Variabilescala	346	Z	FD glo	-0.04000
4802	Variabilescala	354	Z	FD glo	-0.04000
4803	Variabilescala	363	Z	FD glo	-0.04000
4804	Variabilescala	373	Z	FD glo	-0.04000
4805	Variabilescala	376	Z	FD glo	-0.04000
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4807	Variabilescala	387	Z	FD glo	-0.04000
4808	Variabilescala	393	Z	FD glo	-0.04000
4809	Variabilescala	403	Z	FD glo	-0.04000
4810	Variabilescala	412	Z	FD glo	-0.04000
4811	Variabilescala	420	Z	FD glo	-0.04000
4812	Variabilescala	423	Z	FD glo	-0.04000
4813	Variabilescala	430	Z	FD glo	-0.04000
4814	Variabilescala	439	Z	FD glo	-0.04000
4815	Variabilescala	448	Z	FD glo	-0.04000
4816	Variabilescala	451	Z	FD glo	-0.04000
4817	Variabilescala	458	Z	FD glo	-0.04000
4818	Variabilescala	462	Z	FD glo	-0.04000
4819	Terrey	24	Y	FD glo	0.32500
4820	Terrey	25	Y	FD glo	0.32500
4821	Terrey	26	Y	FD glo	0.32500
4822	Terrey	27	Y	FD glo	0.32500
4823	Terrey	28	Y	FD glo	0.32500
4824	Terrey	29	Y	FD glo	0.32500
4825	Terrey	30	Y	FD glo	0.32500
4826	Terrex	31	X	FD glo	0.32500
4827	Terre-X	32	X	FD glo	-0.32500
4828	Terrex	33	X	FD glo	0.32500
4829	Terre-X	34	X	FD glo	-0.32500
4830	Terrex	35	X	FD glo	0.32500
4831	Terre-X	36	X	FD glo	-0.32500
4832	Terrex	37	X	FD glo	0.32500
4833	Terre-X	38	X	FD glo	-0.32500
4834	Terrex	39	X	FD glo	0.32500
4835	Terre-X	40	X	FD glo	-0.32500
4836	Terrex	41	X	FD glo	0.32500
4837	Terre-X	42	X	FD glo	-0.32500
4838	Terrex	43	X	FD glo	0.32500
4839	Terre-X	44	X	FD glo	-0.32500



4840	TerreX	45	X	FD g o	0.32500
4841	Terre-X	46	X	FD g o	-0.32500
4842	TerreY	47	Y	FD g o	0.32500
4843	TerreY	48	Y	FD g o	0.32500
4844	TerreY	49	Y	FD g o	0.32500
4845	TerreY	50	Y	FD g o	0.32500
4846	TerreY	51	Y	FD g o	0.32500
4847	TerreY	52	Y	FD g o	0.32500
4848	TerreY	53	Y	FD g o	0.32500
4849	TerreY	54	Y	FD g o	0.32500
4850	TerreY	56	Y	FD g o	0.32500
4851	TerreY	57	Y	FD g o	0.32500
4852	TerreY	58	Y	FD g o	0.32500
4853	TerreY	59	Y	FD g o	0.32500
4854	TerreY	60	Y	FD g o	0.32500
4855	TerreY	61	Y	FD g o	0.32500
4856	TerreY	62	Y	FD g o	0.32500
4857	TerreY	63	Y	FD g o	0.32500
4858	TerreY	64	Y	FD g o	0.32500
4859	TerreY	65	Y	FD g o	0.32500
4860	TerreY	66	Y	FD g o	0.32500
4861	TerreY	67	Y	FD g o	0.32500
4862	TerreY	68	Y	FD g o	0.32500
4863	TerreY	69	Y	FD g o	0.32500
4864	TerreY	70	Y	FD g o	0.32500
4865	TerreY	71	Y	FD g o	0.32500
4866	TerreY	72	Y	FD g o	0.32500
4867	TerreY	73	Y	FD g o	0.32500
4868	TerreY	74	Y	FD g o	0.32500
4869	TerreY	75	Y	FD g o	0.32500
4870	TerreY	76	Y	FD g o	0.32500
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4873	TerreX	79	X	FD g o	0.32500
4874	Terre-X	80	X	FD g o	-0.32500
4875	TerreX	81	X	FD g o	0.32500
4876	Terre-X	82	X	FD g o	-0.32500
4877	TerreX	87	X	FD g o	0.32500
4878	Terre-X	88	X	FD g o	-0.32500
4879	TerreX	91	X	FD g o	0.32500
4880	Terre-X	92	X	FD g o	-0.32500
4881	TerreX	95	X	FD g o	0.32500
4882	Terre-X	96	X	FD g o	-0.32500
4883	TerreX	97	X	FD g o	0.32500
4884	Terre-X	98	X	FD g o	-0.32500
4885	TerreX	99	X	FD g o	0.32500
4886	Terre-X	100	X	FD g o	-0.32500
4887	TerreX	101	X	FD g o	0.32500
4888	Terre-X	102	X	FD g o	-0.32500
4889	TerreX	103	X	FD g o	0.32500
4890	Terre-X	104	X	FD g o	-0.32500
4891	TerreX	105	X	FD g o	0.32500
4892	Terre-X	106	X	FD g o	-0.32500
4893	Terre-Y	107	Y	FD g o	-0.32500
4894	Terre-Y	108	Y	FD g o	-0.32500
4895	Terre-Y	109	Y	FD g o	-0.32500
4896	Terre-Y	110	Y	FD g o	-0.32500
4897	Terre-Y	111	Y	FD g o	-0.32500
4898	Terre-Y	112	Y	FD g o	-0.32500
4899	Terre-Y	113	Y	FD g o	-0.32500
4900	Terre-Y	114	Y	FD g o	-0.32500
4901	Terre-Y	115	Y	FD g o	-0.32500
4902	Terre-Y	116	Y	FD g o	-0.32500
4903	Terre-Y	117	Y	FD g o	-0.32500
4904	Terre-Y	118	Y	FD g o	-0.32500
4905	Terre-Y	122	Y	FD g o	-0.32500
4906	Terre-Y	123	Y	FD g o	-0.32500
4907	Terre-Y	124	Y	FD g o	-0.32500
4908	Terre-Y	125	Y	FD g o	-0.32500
4909	Terre-Y	126	Y	FD g o	-0.32500
4910	Terre-Y	127	Y	FD g o	-0.32500
4911	Terre-Y	128	Y	FD g o	-0.32500
4912	Terre-Y	129	Y	FD g o	-0.32500
4913	Terre-Y	130	Y	FD g o	-0.32500
4914	Terre-Y	131	Y	FD g o	-0.32500
4915	Terre-Y	132	Y	FD g o	-0.32500
4916	Terre-Y	133	Y	FD g o	-0.32500
4917	Terre-Y	134	Y	FD g o	-0.32500
4918	Terre-Y	135	Y	FD g o	-0.32500
4919	Terre-Y	136	Y	FD g o	-0.32500
4920	Terre-Y	137	Y	FD g o	-0.32500
4921	Terre-Y	138	Y	FD g o	-0.32500
4922	Terre-Y	139	Y	FD g o	-0.32500
4923	Terre-Y	140	Y	FD g o	-0.32500
4924	TerreX	141	X	FD g o	0.32500
4925	Terre-X	142	X	FD g o	-0.32500
4926	TerreX	143	X	FD g o	0.32500
4927	Terre-X	144	X	FD g o	-0.32500

4928	TerreX	145	X	FD g o	0.32500
4929	Terre-X	146	X	FD g o	-0.32500
4930	Terrex	147	X	FD g o	0.32500
4931	Terre-X	148	X	FD g o	-0.32500
4932	Terre-X	149	X	FD g o	-0.32500
4933	Terrex	150	X	FD g o	0.32500
4934	Terre-X	151	X	FD g o	-0.32500
4935	Terrex	152	X	FD g o	0.32500
4936	Terre-Y	153	Y	FD g o	-0.32500
4937	Terre-Y	154	Y	FD g o	-0.32500
4938	Terrex	155	X	FD g o	0.32500
4939	Terre-Y	156	Y	FD g o	-0.32500
4940	Terre-Y	157	Y	FD g o	-0.32500
4941	Terre-Y	158	Y	FD g o	-0.32500
4942	Terre-Y	159	Y	FD g o	-0.32500
4943	Terrex	160	X	FD g o	0.32500
4944	Terre-Y	161	Y	FD g o	-0.32500
4945	Terre-Y	162	Y	FD g o	-0.32500
4946	TerreY	171	Y	FD g o	0.17500
4947	TerreY	172	Y	FD g o	0.17500
4948	TerreY	173	Y	FD g o	0.17500
4949	TerreY	174	Y	FD g o	0.17500
4950	TerreY	175	Y	FD g o	0.17500
4951	TerreY	176	Y	FD g o	0.17500
4952	TerreY	177	Y	FD g o	0.17500
4953	Terrex	178	X	FD g o	0.17500
4954	Terre-X	179	X	FD g o	-0.17500
4955	Terrex	180	X	FD g o	0.17500
4956	Terre-X	181	X	FD g o	-0.17500
4957	Terrex	182	X	FD g o	0.17500
4958	Terre-X	183	X	FD g o	-0.17500
4959	Terrex	184	X	FD g o	0.17500
4960	Terre-X	185	X	FD g o	-0.17500
4961	Terrex	186	X	FD g o	0.17500
4962	Terre-X	187	X	FD g o	-0.17500
4963	Terrex	188	X	FD g o	0.17500
4964	Terre-X	189	X	FD g o	-0.17500
4965	TerreX	190	X	FD g o	0.17500
4966	Terre-X	191	X	FD g o	-0.17500
4967	Terrex	192	X	FD g o	0.17500
4968	Terre-X	193	X	FD g o	-0.17500
4969	TerreY	194	Y	FD g o	0.17500
4970	TerreY	195	Y	FD g o	0.17500
4971	TerreY	196	Y	FD g o	0.17500
4972	TerreY	197	Y	FD g o	0.17500
4973	TerreY	198	Y	FD g o	0.17500
4974	TerreY	199	Y	FD g o	0.17500
4975	TerreY	200	Y	FD g o	0.17500
4976	TerreY	201	Y	FD g o	0.17500
4977	TerreY	203	Y	FD g o	0.17500
4978	TerreY	204	Y	FD g o	0.17500
4979	TerreY	205	Y	FD g o	0.17500
4980	TerreY	206	Y	FD g o	0.17500
4981	TerreY	207	Y	FD g o	0.17500
4982	TerreY	208	Y	FD g o	0.17500
4983	TerreY	209	Y	FD g o	0.17500
4984	TerreY	210	Y	FD g o	0.17500
4985	TerreY	211	Y	FD g o	0.17500
4986	TerreY	212	Y	FD g o	0.17500
4987	TerreY	213	Y	FD g o	0.17500
4988	TerreY	214	Y	FD g o	0.17500
4989	TerreY	215	Y	FD g o	0.17500
4990	TerreY	216	Y	FD g o	0.17500
4991	TerreY	217	Y	FD g o	0.17500
4992	TerreY	218	Y	FD g o	0.17500
4993	TerreY	219	Y	FD g o	0.17500
4994	TerreY	220	Y	FD g o	0.17500
4995	TerreY	221	Y	FD g o	0.17500
4996	TerreY	222	Y	FD g o	0.17500
4997	TerreY	223	Y	FD g o	0.17500
4998	TerreY	224	Y	FD g o	0.17500
4999	TerreY	225	Y	FD g o	0.17500
5000	Terrex	226	X	FD g o	0.17500
5001	Terre-X	227	X	FD g o	-0.17500
5002	Terrex	228	X	FD g o	0.17500
5003	Terre-X	229	X	FD g o	-0.17500
5004	Terrex	234	X	FD g o	0.17500
5005	Terre-X	235	X	FD g o	-0.17500
5006	Terrex	238	X	FD g o	0.17500
5007	Terre-X	239	X	FD g o	-0.17500
5008	Terrex	242	X	FD g o	0.17500
5009	Terre-X	243	X	FD g o	-0.17500
5010	Terrex	244	X	FD g o	0.17500
5011	Terre-X	245	X	FD g o	-0.17500
5012	Terrex	246	X	FD g o	0.17500
5013	Terre-X	247	X	FD g o	-0.17500
5014	Terrex	248	X	FD g o	0.17500
5015	Terre-X	249	X	FD g o	-0.17500

5016	TerreX	250	X	FD glo	0.17500
5017	Terre-X	251	X	FD glo	-0.17500
5018	Terrex	252	X	FD glo	0.17500
5019	Terre-X	253	X	FD glo	-0.17500
5020	Terre-Y	254	Y	FD glo	-0.17500
5021	Terre-Y	255	Y	FD glo	-0.17500
5022	Terre-Y	256	Y	FD glo	-0.17500
5023	Terre-Y	257	Y	FD glo	-0.17500
5024	Terre-Y	258	Y	FD glo	-0.17500
5025	Terre-Y	259	Y	FD glo	-0.17500
5026	Terre-Y	260	Y	FD glo	-0.17500
5027	Terre-Y	261	Y	FD glo	-0.17500
5028	Terre-Y	262	Y	FD glo	-0.17500
5029	Terre-Y	263	Y	FD glo	-0.17500
5030	Terre-Y	264	Y	FD glo	-0.17500
5031	Terre-Y	265	Y	FD glo	-0.17500
5032	Terre-Y	269	Y	FD glo	-0.17500
5033	Terre-Y	270	Y	FD glo	-0.17500
5034	Terre-Y	271	Y	FD glo	-0.17500
5035	Terre-Y	272	Y	FD glo	-0.17500
5036	Terre-Y	273	Y	FD glo	-0.17500
5037	Terre-Y	274	Y	FD glo	-0.17500
5038	Terre-Y	275	Y	FD glo	-0.17500
5039	Terre-Y	276	Y	FD glo	-0.17500
5040	Terre-Y	277	Y	FD glo	-0.17500
5041	Terre-Y	278	Y	FD glo	-0.17500
5042	Terre-Y	279	Y	FD glo	-0.17500
5043	Terre-Y	280	Y	FD glo	-0.17500
5044	Terre-Y	281	Y	FD glo	-0.17500
5045	Terre-Y	282	Y	FD glo	-0.17500
5046	Terre-Y	283	Y	FD glo	-0.17500
5047	Terre-Y	284	Y	FD glo	-0.17500
5048	Terre-Y	285	Y	FD glo	-0.17500
5049	Terre-Y	286	Y	FD glo	-0.17500
5050	Terre-Y	287	Y	FD glo	-0.17500
5051	Terrex	288	X	FD glo	0.17500
5052	Terre-X	289	X	FD glo	-0.17500
5053	TerreX	290	X	FD glo	0.17500
5054	Terre-X	291	X	FD glo	-0.17500
5055	Terrex	292	X	FD glo	0.17500
5056	Terre-X	293	X	FD glo	-0.17500
5057	Terrex	294	X	FD glo	0.17500
5058	Terre-X	295	X	FD glo	-0.17500
5059	Terre-X	296	X	FD glo	-0.17500
5060	Terrex	297	X	FD glo	0.17500
5061	Terre-X	298	X	FD glo	-0.17500
5062	Terrex	299	X	FD glo	0.17500
5063	Terre-Y	300	Y	FD glo	-0.17500
5064	Terre-Y	301	Y	FD glo	-0.17500
5065	Terrex	302	X	FD glo	0.17500
5066	Terre-Y	303	Y	FD glo	-0.17500
5067	Terre-Y	304	Y	FD glo	-0.17500
5068	Terre-Y	305	Y	FD glo	-0.17500
5069	Terre-Y	306	Y	FD glo	-0.17500
5070	Terrex	307	X	FD glo	0.17500
5071	Terre-Y	308	Y	FD glo	-0.17500
5072	Terre-Y	309	Y	FD glo	-0.17500

PESI PROPRI GUSCI-|-----|-----|-----|-----|-----|  
 Cond. Nome Carichi Gusci  
 1 5073-5275 55, 83-86, 89-90, 93-94, 202, 230-233, 236-237,  
 240-241, 314-498  
 2 5276-5570 1-54, 56-82, 87-88, 91-92, 95-201, 203-229, 234-235,  
 238-239, 242-313

CONDIZIONI DI CARICO-----|-----|-----|-----|num.= 21  
 Nome  
 1 Peso\_proprio N. carichi: 949  
 Lista carichi: 2618-2931, 3918-4349, 5073-5275  
 2 Peso\_proprio\_Fondaz N. carichi: 672  
 Lista carichi: 4350-4726, 5276-5570  
 3 Permanente N. carichi: 461  
 Lista carichi: 2932-3338, 4727-4780  
 4 Variabile N. carichi: 249  
 Lista carichi: 3339-3579, 4781-4788  
 5 Var\_cop\_praticabile N. carichi: 8  
 Lista carichi: 3580-3587  
 6 Var\_cop\_non\_pratica N. carichi: 71  
 Lista carichi: 3588-3652, 4789-4794  
 7 variabile\_Scale N. carichi: 24  
 Lista carichi: 4795-4818

- 8 Vento\_X N. carichi: 56  
Lista carichi: 3653-3708
- 9 Vento\_Y N. carichi: 136  
Lista carichi: 3709-3844
- 10 Neve N. carichi: 73  
Lista carichi: 3845-3917
- 11 Spinta\_terre N. carichi: 254  
Lista carichi: 4819-5072
- 12 Sisma\_X N. carichi: 399  
Lista carichi: 1022-1420
- 13 Sisma\_Y N. carichi: 399  
Lista carichi: 1421-1819
- 14 Torcente\_add.\_X N. carichi: 399  
Lista carichi: 1820-2218
- 15 Torcente\_add.\_Y N. carichi: 399  
Lista carichi: 2219-2617
- 16 Autovett\_001\_(X) N. carichi: 171  
Lista carichi: 1-171
- 17 Autovett\_001\_(Y) N. carichi: 166  
Lista carichi: 172-337
- 18 Autovett\_002\_(X) N. carichi: 171  
Lista carichi: 338-508
- 19 Autovett\_002\_(Y) N. carichi: 171  
Lista carichi: 509-679
- 20 Autovett\_003\_(X) N. carichi: 171  
Lista carichi: 680-850
- 21 Autovett\_003\_(Y) N. carichi: 171  
Lista carichi: 851-1021

RISULTANTI DEI CARICHI (punto di applicazione nell'origine degli assi):

cond.	FX	FY	FZ	MX	MY	MZ
1	0.000000E+00	0.000000E+00	-1.084722E+06	-5.236024E+08	2.161980E+09	0.000000E+00
2	0.000000E+00	0.000000E+00	-8.791645E+05	-3.828976E+08	1.719982E+09	0.000000E+00
3	0.000000E+00	0.000000E+00	-5.997479E+05	-3.050626E+08	1.211656E+09	0.000000E+00
4	0.000000E+00	0.000000E+00	-4.182520E+05	-2.173993E+08	8.454257E+08	0.000000E+00
5	0.000000E+00	0.000000E+00	-2.427300E+04	1.128695E+07	3.167627E+07	0.000000E+00
6	0.000000E+00	0.000000E+00	-2.425057E+04	-1.466793E+07	5.055864E+07	0.000000E+00
7	0.000000E+00	0.000000E+00	-1.266108E+04	-1.865675E+06	1.463649E+07	0.000000E+00
8	0.000000E+00	-2.268003E+03	0.000000E+00	1.162663E+06	0.000000E+00	-4.348919E+06
9	0.000000E+00	1.535412E+04	0.000000E+00	-9.903028E+06	0.000000E+00	3.331801E+07
10	0.000000E+00	0.000000E+00	-2.810182E+04	-1.273666E+07	5.561648E+07	0.000000E+00
11	1.034065E+04	1.725017E+03	0.000000E+00	2.281335E+05	-1.367550E+06	-2.143335E+07
12	1.822969E+05	0.000000E+00	0.000000E+00	0.000000E+00	1.184506E+08	-9.292271E+07
13	0.000000E+00	1.822969E+05	0.000000E+00	-1.184506E+08	0.000000E+00	3.709230E+08
14	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	-2.143460E+03	-1.637776E+07
15	0.000000E+00	0.000000E+00	0.000000E+00	2.936050E+03	0.000000E+00	3.789637E+07
16	4.148140E+03	0.000000E+00	0.000000E+00	0.000000E+00	2.978595E+06	-5.132364E+06
17	0.000000E+00	5.124804E+04	0.000000E+00	-3.778189E+07	0.000000E+00	1.787625E+08
18	1.163334E+05	0.000000E+00	0.000000E+00	0.000000E+00	8.144894E+07	-6.469976E+07
19	0.000000E+00	3.828329E+04	0.000000E+00	-2.590107E+07	0.000000E+00	6.181096E+07
20	3.85532E+04	0.000000E+00	0.000000E+00	0.000000E+00	2.654569E+07	-1.218596E+07
21	0.000000E+00	6.906069E+04	0.000000E+00	-4.482894E+07	0.000000E+00	6.985181E+07

## CONTROLLO RIGIDENZE STRUTTURALI

Quota del piano	350.0	700.0	1050.0	[cm]
Rigidizza KX (/1000)	731.685	581.199	283.646	[daN/cm]
Rigidizza KY (/1000)	484.670	405.488	195.994	[daN/cm]
Rigidizza Ktors (/1e6)	1045035	779357	392871	[daNcm]
xk (centro rigidzze)	1812.3	1809.5	1850.9	[cm]
Yk (centro rigidzze)	387.1	386.0	394.5	[cm]
Xg (baricentro)	1978.5	2050.1	2102.0	[cm]
Yg (baricentro)	494.9	562.1	482.4	[cm]
dimensione X	4139	4108	4250	[cm]
dimensione Y	2582	1686	995	[cm]
raggio rigidzza (rx)	1468	1386	1416	[cm]
raggio rigidzza (ry)	1195	1158	1177	[cm]
raggio giratorio (Is)	1408	1282	1260	[cm]

MIN(rx , ry) / ls	0.8487	0.9033	0.9340	ok (> 0.8)
(Xg - Xk) / rx	0.1132	0.1736	0.1774	ok (< 0.3)
(Yg - Yk) / ry	0.0903	0.1520	0.0747	ok (< 0.3)
2° ordine (theta X)	1.41	1.61	1.18	[%] ok (< 10%)
2° ordine (theta Y)	2.13	2.31	1.71	[%] ok (< 10%)
Percentuale dinamica X	25.02	40.95	34.03	[%]
Percentuale dinamica Y	25.52	40.78	33.70	[%]

## DATI ANALISI SISMICA: Statica Lineare

### DATI PROGETTO

Edificio sito in località PALERMO ( long. 13.353 lat. 38.120900 )

Categoria del suolo di fondazione = B

Coeff. di amplificazione stratigrafica Ss = 1.200

Coeff. di amplificazione topografica ST = 1.000

S = 1.200

Vita nominale dell'opera VN = 50 anni

Coefficiente d'uso CU = 1.0

Periodo di riferimento VR = 50.0

PVR : probabilità di superamento in VR = 10 %

Tempo di ritorno = 475

Coeff. di smorzamento viscoso = 5.0

Valori risultanti per :

ag 1.754 [g/10]

Fo 2.375

TC\* 0.290

Edificio con struttura in cem. armato :

Fattore di struttura q = 4.14

q = q0 \* KR \* KW dove :

Edificio: (A telaio con più piani e più campate) (Classe di duttilità "A" ( alta )) (Non regolare in pianta)

q0 = 4.50 \* 1.15 = 5.175

KR = 0.8

KW = 1.00

Rapporto spettro di esercizio / spettro di progetto = 1.003

Coeff. lambda = 1.0000

Sd = 0.095 per T1 = 0.52

Numero condizioni generanti carichi sismici : 4

Cond. 001 :	Peso_proprio	con coeff.	1.000
Cond. 003 :	Permanente	con coeff.	1.000
Cond. 004 :	Variabile	con coeff.	0.600
Cond. 007 :	Variabile_Scale	con coeff.	0.600

Condizioni di carico sismico generate:

Cond. 012 : Sisma X

Cond. 013 : Sisma Y

Cond. 014 : Torcente add. X

Cond. 015 : Torcente add. Y

Carichi sismici :

Piani	Pesi	C. distr.	Forze di piano	Torc. di piano X	Torc. di piano Y	Baric. X	Baric. Y
cm	daN		daN	daNcm	daNcm	cm	cm
115.0	7015	0.0161	113	1977	2112	1177.1	208.8
230.0	482836	0.0322	15528	2088649	3299670	1972.1	446.7

299.0	1850	0.0418	77	2851	3789	1414.6	388.7
368.0	5424	0.0515	279	2309	2295	1316.1	82.9
434.5	23290	0.0608	1415	70395	227423	2580.3	609.2
492.5	5578	0.0689	384	19108	26022	1036.7	141.0
559.2	565867	0.0782	44247	5951696	9402552	1970.7	497.7
649.0	1850	0.0907	168	6188	8224	1414.6	388.7
718.0	5063	0.1004	508	4206	4180	1325.0	88.8
784.5	22058	0.1097	2420	100354	388893	2650.1	643.5
842.5	5578	0.1178	657	32688	44515	1036.7	141.0
909.2	484267	0.1271	61566	5418421	13082798	2050.7	568.6
1105.0	8641	0.1545	1335	12349	14018	1140.5	258.9
1280.0	299479	0.1790	53599	2666571	11389876	2102.0	482.4

## DATI ANALISI SISMICA: Analisi Dinamica

ANALISI DINAMICA

lavoro : \BONA01

PARAMETRI DI CALCOLO:

Calcolo secondo Ordinanza P.C.M. 3274  
Modello a pilastri flessibili  
Assi di vibrazione: X Y  
Combinazione quadratica completa (CQC)

Accelerazione di picco al suolo = 1.00g

coefficiente di fondazione = 1.000  
coefficiente di struttura = 1.000

DATI PROGETTO

Edificio sito in località PALERMO ( long. 13.353 lat. 38.120900 )

Categoria del suolo di fondazione = B

Coeff. di amplificazione stratigrafica  $S_s$  = 1.200

Coeff. di amplificazione topografica  $S_T$  = 1.000

$S$  = 1.200

Vita nominale dell'opera  $V_N$  = 50 anni

Coefficiente d'uso  $C_U$  = 1.0

Periodo di riferimento  $V_R$  = 50.0

PVR : probabilità di superamento in  $V_R$  = 10 %

Tempo di ritorno = 475

Coeff. di smorzamento viscoso = 5.0

Valori risultanti per :

$a_g$  1.754 [g/10]

$F_0$  2.375

$TC^*$  0.290

Edificio con struttura in cem. armato :

Fattore di struttura  $q$  = 4.14

$q = q_0 * K_R * K_W$  dove :

Edificio: (A telaio con più piani e più campate) (Classe di duttilità "A" ( alta )) (Non regolare in pianta)

$q_0 = 4.50 * 1.15 = 5.175$

$K_R = 0.8$

$K_W = 1.00$

Rapporto spettro di esercizio / spettro di progetto = 1.003

CONDIZIONI DI RIFERIMENTO	COEFFICIENTE	PESO RISULTANTE [daN]
1.	1.000	1084721.5
3.	1.000	599747.9
4.	0.600	250951.2
7.	0.600	7596.6

\*\*\* TABELLA AUTOVETTORI \*\*\*

n	PERIODO [sec]	MASSA ATTIVATA			COEFFICIENTI DI CORRELAZIONE						
		%X	%Y	%Z	n+1	n+2	n+3	n+4	n+5	n+6	n+7
1	0.451713	2.604	32.171	0.000	0.028	0.017					

2 | 0.255253 | 67.765 22.300 0.000 | 0.315  
 3 | 0.220362 | 22.459 40.228 0.000 |

-----  
MASSA TOTALE 92.828 94.700 0.000

\*\*\*\*\* AUTOVETTORE N. 1 - periodo: 0.4517130

percentuale di massa attivata :  
           X          Y  
 2.60402  32.17138

PIANO	SX	SY	PHI
1	0.20876	-0.17562	-0.00018
2	0.41535	-0.36661	-0.00036
3	0.58660	-0.52398	-0.00051

\*\*\*\*\* AUTOVETTORE N. 2 - periodo: 0.2552534

percentuale di massa attivata :  
           X          Y  
 67.76522  22.30035

PIANO	SX	SY	PHI
1	-0.23788	-0.29047	-0.00005
2	-0.37186	-0.44577	-0.00008
3	-0.46936	-0.54932	-0.00011

\*\*\*\*\* AUTOVETTORE N. 3 - periodo: 0.2203624

percentuale di massa attivata :  
           X          Y  
 22.45880  40.22845

PIANO	SX	SY	PHI
1	0.22292	-0.32555	-0.00009
2	0.34092	-0.46695	-0.00013
3	0.43326	-0.56776	-0.00018

## DESCRIZIONE CASI DI CARICO:

NOME	DESCRIZIONE	VERIFICA	TIPO	CONDIZ. INSERITE			CASI INSERITI					
				Num.	Coeff.	Segno	Num.	Coeff.				
1	SLU	S.L.U.	somma	1	1.300	+						
				2	1.300	+						
				3	1.500	+						
				4	1.500	+						
				5	1.500	+						
				6	1.500	+						
				7	1.500	+						
				10	1.500	+						
				11	1.500	+						
				2	SLU VENTOX	S.L.U.	somma	1	1.300	+		
								2	1.300	+		
				3	1.500	+						
				4	1.500	+						
				5	1.500	+						
				6	1.500	+						
				7	1.500	+						
				8	1.500	±						
				10	1.500	+						
				11	1.500	+						
3	SLU VENTOY	S.L.U.	somma	1	1.300	+						
				2	1.300	+						
				3	1.500	+						
				4	1.500	+						
				5	1.500	+						
				6	1.500	+						
				7	1.500	+						
				9	1.500	±						
				10	1.500	+						
				11	1.500	+						
				4	SISMAX SLU	nessuna	somma	14	1.000	±		
16	1.000	quadr.										
18	1.000	quadr.										
20	1.000	quadr.										
5	SISMAY SLU	nessuna	somma	15	1.000	±						
				17	1.000	quadr.						

				19	1.000	quadr.		
				21	1.000	quadr.		
6	SLU con SISMAX PRINC	S.L.U.	somma	1	1.000	+	4	1.000
				2	1.000	+	5	0.300
				3	1.000	+		
				4	0.300	+		
				7	0.600	+		
				11	1.000	+		
7	SLU con SISMAX PRINC	S.L.U.	somma	1	1.000	+	5	1.000
				2	1.000	+	4	0.300
				3	1.000	+		
				4	0.300	+		
				7	0.600	+		
				11	1.000	+		
8	SLD con SISMAX PRINC	S.L.Danno	somma	1	1.000	+	4	0.581
				2	1.000	+	5	0.174
				3	1.000	+		
				4	0.300	+		
				7	0.600	+		
				11	1.000	+		
9	SLD con SISMAX PRINC	S.L.Danno	somma	1	1.000	+	5	0.581
				2	1.000	+	4	0.174
				3	1.000	+		
				4	0.300	+		
				7	0.600	+		
				11	1.000	+		
10	SLU FON con SISMAX P	SLU_FON	somma	1	1.000	+	4	1.300
				2	1.000	+	5	0.300
				3	1.000	+		
				4	0.300	+		
				7	0.600	+		
				11	1.000	+		
11	SLU FON con SISMAX P	SLU_FON	somma	1	1.000	+	5	1.300
				2	1.000	+	4	0.300
				3	1.000	+		
				4	0.300	+		
				7	0.600	+		
				11	1.000	+		
12	SLUGeo	SLU_GEO	somma	1	1.000	+		
				2	1.000	+		
				3	1.300	+		
				4	1.300	+		
				5	1.300	+		
				6	1.300	+		
				7	1.300	+		
				10	1.300	+		
				11	1.300	+		
13	SLUGeo VENTOX	SLU_GEO	somma	1	1.000	+		
				2	1.000	+		
				3	1.300	+		
				4	1.300	+		
				5	1.300	+		
				6	1.300	+		
				7	1.300	+		
				8	1.300	±		
				10	1.300	+		
				11	1.300	+		
14	SLUGeo VENTOY	SLU_GEO	somma	1	1.000	+		
				2	1.000	+		
				3	1.300	+		
				4	1.300	+		
				5	1.300	+		
				6	1.300	+		
				7	1.300	+		
				9	1.300	±		
				10	1.300	+		
				11	1.300	+		
15	Rara	Rara	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	1.000	+		
				5	1.000	+		
				6	1.000	+		
				7	1.000	+		
				10	1.000	+		
				11	1.000	+		
16	Rara Ventox	Rara	somma	1	1.000	+		



				2	1.000	+		
				3	1.000	+		
				4	1.000	+		
				5	1.000	+		
				6	1.000	+		
				7	1.000	+		
				8	1.000	±		
				10	1.000	+		
				11	1.000	+		
17	Rara VentoY	Rara	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	1.000	+		
				5	1.000	+		
				6	1.000	+		
				7	1.000	+		
				9	1.000	±		
				10	1.000	+		
				11	1.000	+		
18	Frequente	Freq.	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	0.500	+		
				7	0.700	+		
				10	0.200	+		
				11	1.000	+		
19	Frequente VentoX	Freq.	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	0.500	+		
				7	0.700	+		
				8	0.200	±		
				10	0.200	+		
				11	1.000	+		
20	Frequente VentoY	Freq.	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	0.500	+		
				7	0.700	+		
				9	0.200	±		
				10	0.200	+		
				11	1.000	+		
21	Quasi Perm	QuasiPerm.	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	0.300	+		
				7	0.600	+		
				11	1.000	+		

## SPOSTAMENTI NODALI:

CASO DI CARICO : 2 SLU VENTOX

COMBINAZIONE

N. 10 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.30
2	Peso_proprio_Fondaz	+	1.30
3	Permanente	+	1.50
4	Variabile	+	1.50
5	Var_cop_praticabile	+	1.50
6	Var_cop_non_pratica	+	1.50
7	Variabile_Scale	+	1.50
8	Vento_X	+ -	1.50
10	Neve	+	1.50
11	Spinta_terre	+	1.50

1)	+1.30*c001	+1.30*c002	+1.50*c003	+1.50*c004	+1.50*c005
)	+1.50*c006	+1.50*c007	+1.50*c008	+1.50*c010	+1.50*c011
2)	+1.30*c001	+1.30*c002	+1.50*c003	+1.50*c004	+1.50*c005
)	+1.50*c006	+1.50*c007	-1.50*c008	+1.50*c010	+1.50*c011

Unità di misura: SX,SY,SZ [cm]; RX,RY,RZ [rad]

Coefficiente moltiplicativo: 1.000000

Nodo	SX	SY	SZ	RX	RY	RZ
457	0.001782	0.013304	-0.199498	-0.00002	0.00003	-0.00001
	0.001794	0.018046	-0.199911	-0.00004	0.00003	-0.00001
458	-0.005679	-0.009391	-0.311419	-0.00016	0.00000	-0.00012
	-0.005676	-0.007075	-0.311110	-0.00019	0.00000	-0.00012

459	-0.005184 -0.005182	-0.013109 -0.010795	-0.309732 -0.309373	-0.00017 -0.00020	0.00000 0.00000	-0.00013 -0.00013
460	-0.004994 -0.004994	-0.014424 -0.012116	-0.309249 -0.308873	-0.00018 -0.00021	0.00000 0.00000	-0.00013 -0.00013
461	-0.004767 -0.004768	-0.015749 -0.013450	-0.308639 -0.308244	-0.00018 -0.00022	0.00000 0.00000	-0.00013 -0.00013
462	-0.001736 -0.002066	0.016732 0.022803	-0.194652 -0.192558	0.00004 0.00005	-0.00016 -0.00012	-0.00004 -0.00001
463	-0.001845 -0.002149	0.016576 0.022615	-0.193150 -0.191404	-0.00005 -0.00006	-0.00015 -0.00011	0.00000 0.00000
464	-0.001547 -0.001794	0.010543 0.016379	-0.192751 -0.191257	-0.00011 -0.00013	0.00007 0.00005	-0.00008 -0.00008
465	0.002801 0.002761	0.016170 0.022189	-0.196579 -0.195402	-0.00002 -0.00003	0.00000 0.00000	0.00000 0.00000
466	0.003961 0.003894	0.009818 0.015605	-0.214335 -0.212983	-0.00010 -0.00011	0.00017 0.00017	-0.00012 -0.00013
467	-0.002244 -0.002439	0.021700 0.028302	-0.193955 -0.192176	-0.00016 -0.00018	0.00000 0.00000	-0.00004 -0.00004
468	-0.001468 -0.001651	0.014850 0.021430	-0.194451 -0.192987	-0.00013 -0.00015	0.00000 0.00000	-0.00010 -0.00010
469	0.000966 0.001004	0.015023 0.021261	-0.197828 -0.196476	-0.00008 -0.00010	0.00002 0.00002	0.00003 0.00003
470	0.001597 0.001616	0.017436 0.023881	-0.197622 -0.196385	-0.00006 -0.00008	0.00000 0.00000	0.00001 0.00001
471	0.002061 0.002077	0.017821 0.024376	-0.197597 -0.196373	-0.00005 -0.00007	-0.00002 -0.00002	0.00000 0.00001
472	0.002223 0.002226	0.017792 0.024461	-0.197239 -0.196019	-0.00005 -0.00007	-0.00003 -0.00003	0.00001 0.00001
473	-0.000778 -0.000756	0.015367 0.021583	-0.203450 -0.203866	0.00000 0.00000	0.00003 0.00003	0.00001 0.00001
474	0.001469 0.001512	0.018073 0.024750	-0.202430 -0.202852	0.00000 0.00000	-0.00003 -0.00003	0.00001 0.00001
475	-0.000904 -0.000883	0.015878 0.022103	-0.208761 -0.210953	-0.00003 -0.00005	0.00002 0.00002	0.00000 0.00000
476	-0.000276 -0.000230	0.016482 0.022948	-0.208125 -0.210232	-0.00002 -0.00004	0.00000 0.00000	0.00002 0.00002
477	0.000311 0.000374	0.018486 0.025163	-0.207404 -0.209500	-0.00002 -0.00004	-0.00003 -0.00003	0.00002 0.00002
478	-0.002299 -0.002723	-0.015721 -0.010867	-0.319650 -0.319496	-0.00025 -0.00028	0.00000 0.00000	0.00011 0.00012
479	-0.002178 -0.002602	-0.014667 -0.009731	-0.319642 -0.319475	-0.00024 -0.00028	0.00000 0.00000	0.00012 0.00013
480	-0.000977 -0.001403	-0.003082 0.002744	-0.319042 -0.318726	-0.00017 -0.00020	0.00000 0.00000	0.00012 0.00013
481	-0.008143 -0.008335	0.007973 0.013506	-0.321931 -0.321630	-0.00023 -0.00027	0.00000 0.00000	-0.00008 -0.00008
482	-0.007554 -0.007747	0.005577 0.011119	-0.321672 -0.321294	-0.00025 -0.00029	0.00000 0.00000	-0.00008 -0.00008
483	-0.007206 -0.007400	0.004187 0.009733	-0.321521 -0.321099	-0.00026 -0.00031	0.00000 0.00000	-0.00008 -0.00008
484	-0.007153 -0.007347	0.003976 0.009521	-0.321524 -0.321095	-0.00027 -0.00031	0.00000 0.00000	-0.00008 -0.00008
485	0.001028 0.000973	0.028246 0.036248	-0.406716 -0.417197	0.00042 0.00046	-0.00021 -0.00021	-0.00005 -0.00008
486	0.000471 0.000432	0.037325 0.044678	-0.383258 -0.395224	0.00040 0.00045	-0.00011 -0.00010	0.00014 0.00014
487	-0.000120 -0.000157	0.039009 0.046226	-0.379246 -0.391245	0.00037 0.00042	-0.00013 -0.00014	0.00087 0.00086

488	-0.000098 -0.000142	0.042684 0.049256	-0.411800 -0.422562	0.00044 0.00048	0.00041 0.00041	-0.00046 -0.00048
489	-0.007347 -0.006708	0.028388 0.036310	-0.317807 -0.319818	-0.00021 -0.00024	0.00013 0.00013	0.00005 0.00005
490	-0.007059 -0.006406	0.036738 0.044072	-0.328144 -0.331224	0.00006 0.00007	-0.00009 -0.00008	0.00005 0.00004
491	-0.006842 -0.006189	0.037747 0.044981	-0.325132 -0.328319	0.00006 0.00007	-0.00014 -0.00014	0.00004 0.00004
492	-0.006386 -0.005745	0.041685 0.048333	-0.290157 -0.292953	-0.00011 -0.00014	-0.00013 -0.00014	-0.00003 -0.00003
493	0.001479 0.001544	0.018960 0.025976	-0.198397 -0.197132	-0.00004 -0.00006	-0.00002 -0.00002	0.00001 0.00001
494	-0.007460 -0.007899	0.026180 0.035075	-0.332886 -0.332579	-0.00018 -0.00021	0.00000 0.00000	-0.00004 -0.00004
495	-0.006799 -0.007239	0.025131 0.034048	-0.333473 -0.333079	-0.00019 -0.00023	0.00000 0.00000	-0.00003 -0.00003
496	-0.006563 -0.007003	0.024826 0.033755	-0.333595 -0.333173	-0.00020 -0.00023	0.00000 0.00000	-0.00003 -0.00003
497	-0.006348 -0.006788	0.024525 0.033468	-0.333697 -0.333246	-0.00020 -0.00024	0.00000 0.00000	-0.00003 -0.00003
498	-0.011501 -0.011297	0.033367 0.041456	-0.216560 -0.215872	0.00005 0.00002	0.00014 0.00013	0.00003 0.00003
499	-0.013095 -0.012934	0.020790 0.028866	-0.218138 -0.214510	0.00016 0.00015	-0.00007 -0.00008	-0.00015 -0.00015
500	0.000882 0.001037	0.034172 0.042308	-0.230476 -0.229157	0.00005 0.00004	-0.00028 -0.00028	-0.00008 -0.00008
501	0.000720 0.000862	0.020675 0.028868	-0.200557 -0.199138	-0.00005 -0.00007	-0.00003 -0.00004	0.00000 0.00001
502	-0.000610 -0.000574	0.025349 0.034836	-0.209237 -0.209671	-0.00007 -0.00009	-0.00002 -0.00002	0.00001 0.00001
503	0.005510 0.006721	0.026145 0.035890	-0.167023 -0.165549	-0.00017 -0.00018	0.00032 0.00032	0.00000 0.00000
504	0.005521 0.006731	0.028188 0.038314	-0.180045 -0.179045	-0.00052 -0.00053	-0.00015 -0.00015	0.00001 0.00001
505	0.005541 0.006751	0.030817 0.041423	-0.173214 -0.172448	-0.00047 -0.00049	-0.00013 -0.00013	0.00000 0.00000
506	0.003027 0.003789	0.026166 0.035912	-0.185293 -0.184154	-0.00030 -0.00031	0.00047 0.00047	0.00000 0.00000
507	0.003042 0.003803	0.028187 0.038312	-0.228398 -0.227927	-0.00035 -0.00035	-0.00017 -0.00017	0.00003 0.00003
508	0.003058 0.003818	0.030802 0.041409	-0.218508 -0.218130	-0.00009 -0.00010	-0.00005 -0.00005	0.00000 0.00000
509	0.000364 0.000658	0.021327 0.030215	-0.316282 -0.314846	-0.00025 -0.00027	0.00021 0.00021	0.00001 0.00001
510	0.000437 0.000730	0.023993 0.033339	-0.276275 -0.275309	-0.00029 -0.00030	-0.00012 -0.00011	-0.00001 0.00000
511	0.000499 0.000791	0.026166 0.035911	-0.222963 -0.222236	0.00011 0.00009	0.00006 0.00006	0.00003 0.00003
512	0.000536 0.000829	0.028141 0.038265	-0.197317 -0.195493	0.00076 0.00075	-0.00038 -0.00038	-0.00018 -0.00019
513	0.000535 0.000827	0.029000 0.039278	-0.202494 -0.201051	-0.00013 -0.00015	0.00005 0.00005	-0.00004 -0.00004
514	0.000517 0.000808	0.030774 0.041381	-0.288003 -0.287765	0.00010 0.00008	0.00021 0.00021	0.00001 0.00001
515	0.000505 0.000796	0.033311 0.044377	-0.317194 -0.316756	-0.00017 -0.00019	-0.00004 -0.00004	0.00000 0.00000
516	0.000495 0.000785	0.035703 0.047199	-0.329805 -0.329164	-0.00016 -0.00017	-0.00002 -0.00002	0.00000 0.00001
517	0.000489	0.037915	-0.333735	-0.00012	0.00002	0.00001

	0.000780	0.049812	-0.332895	-0.00014	0.00002	0.00001
518	0.000486 0.000776	0.040316 0.052642	-0.333652 -0.332460	-0.00010 -0.00012	0.00001 0.00001	0.00001 0.00001
519	0.000485 0.000776	0.042747 0.055501	-0.326167 -0.324301	-0.00028 -0.00030	-0.00014 -0.00014	0.00000 0.00000
520	0.000476 0.000767	0.044605 0.057692	-0.308614 -0.306001	-0.00027 -0.00030	-0.00008 -0.00008	0.00001 0.00001
521	-0.000336 -0.000207	0.026971 0.036879	-0.202014 -0.200570	-0.00008 -0.00010	-0.00001 -0.00001	0.00000 0.00000
522	-0.000330 -0.000200	0.027500 0.037510	-0.201048 -0.199637	-0.00009 -0.00011	-0.00002 -0.00002	0.00001 0.00001
523	-0.000332 -0.000203	0.028108 0.038223	-0.200509 -0.199096	-0.00007 -0.00009	0.00003 0.00003	0.00001 0.00001
524	-0.000896 -0.000858	0.026845 0.036750	-0.209434 -0.209862	-0.00005 -0.00007	-0.00002 -0.00002	0.00001 0.00002
525	-0.001053 -0.001016	0.028531 0.038648	-0.206423 -0.206839	-0.00005 -0.00007	0.00005 0.00005	0.00001 0.00001
526	-0.001418 -0.001414	0.026900 0.036637	-0.219195 -0.220279	-0.00021 -0.00021	-0.00006 -0.00006	0.00000 0.00000
527	-0.001364 -0.001361	0.026833 0.036738	-0.211713 -0.212807	-0.00007 -0.00009	-0.00003 -0.00003	0.00001 0.00001
528	-0.001429 -0.001484	0.026842 0.036747	-0.215806 -0.218100	-0.00021 -0.00023	-0.00007 -0.00006	0.00000 0.00000
529	-0.001433 -0.001488	0.027454 0.037464	-0.213427 -0.215683	-0.00016 -0.00018	-0.00008 -0.00008	0.00001 0.00001
530	-0.001437 -0.001492	0.028105 0.038221	-0.214095 -0.216311	-0.00016 -0.00018	0.00009 0.00009	0.00001 0.00001
531	-0.001642 -0.001692	0.028366 0.038664	-0.240211 -0.242064	-0.00014 -0.00015	0.00023 0.00022	0.00001 0.00001
532	-0.001874 -0.001977	0.021349 0.030236	-0.352570 -0.352420	-0.00001 -0.00002	0.00047 0.00047	-0.00002 -0.00002
533	-0.001886 -0.001991	0.023862 0.033205	-0.372551 -0.372798	0.00009 0.00008	-0.00021 -0.00021	0.00001 0.00001
534	-0.001709 -0.001813	0.025973 0.035717	-0.258976 -0.260855	-0.00027 -0.00028	-0.00019 -0.00018	0.00000 0.00001
535	-0.001691 -0.001796	0.028900 0.039182	-0.252887 -0.255104	-0.00025 -0.00026	0.00023 0.00022	0.00000 0.00000
536	-0.001690 -0.001795	0.030759 0.041365	-0.358787 -0.359252	-0.00005 -0.00008	0.00048 0.00048	0.00001 0.00001
537	-0.001693 -0.001797	0.033315 0.044381	-0.410329 -0.410420	-0.00010 -0.00012	-0.00008 -0.00008	0.00001 0.00001
538	-0.001691 -0.001796	0.035710 0.047206	-0.404616 -0.404754	-0.00010 -0.00012	-0.00003 -0.00003	0.00001 0.00001
539	-0.001693 -0.001798	0.037962 0.049857	-0.403132 -0.403264	-0.00029 -0.00031	-0.00019 -0.00019	0.00001 0.00001
540	-0.001701 -0.001807	0.040370 0.052694	-0.403892 -0.403949	-0.00050 -0.00052	0.00003 0.00003	0.00001 0.00001
541	-0.001709 -0.001814	0.042733 0.055487	-0.371289 -0.370884	-0.00019 -0.00022	-0.00017 -0.00018	0.00000 0.00000
542	-0.001709 -0.001815	0.043622 0.056530	-0.358507 -0.357631	-0.00012 -0.00015	-0.00015 -0.00015	0.00000 0.00000
543	-0.001709 -0.001815	0.043776 0.056710	-0.353477 -0.352593	-0.00011 -0.00014	-0.00020 -0.00020	0.00000 0.00000
544	-0.002123 -0.002213	0.041487 0.054705	-0.323428 -0.322836	-0.00009 -0.00012	-0.00008 -0.00008	-0.00001 -0.00001
545	-0.004905 -0.005601	0.021400 0.030285	-0.356759 -0.357973	0.00025 0.00024	0.00031 0.00031	0.00003 0.00003
546	-0.004905 -0.005601	0.023899 0.033241	-0.374117 -0.374814	0.00004 0.00002	-0.00010 -0.00010	0.00001 0.00001

547	-0.004916 -0.005611	0.025980 0.035721	-0.371356 -0.371679	-0.00003 -0.00005	0.00012 0.00012	0.00000 0.00000
548	-0.004948 -0.005641	0.028257 0.038421	-0.332338 -0.332194	-0.00025 -0.00027	-0.00175 -0.00175	0.00000 0.00001
549	-0.004949 -0.005641	0.028325 0.038502	-0.331973 -0.331813	-0.00025 -0.00027	0.00148 0.00145	0.00000 0.00000
550	-0.004949 -0.005641	0.028874 0.039157	-0.329332 -0.329016	-0.00013 -0.00015	0.00071 0.00071	0.00000 0.00000
551	-0.004962 -0.005654	0.030727 0.041335	-0.374962 -0.374707	-0.00017 -0.00019	0.00012 0.00011	0.00000 0.00000
552	-0.004951 -0.005644	0.033148 0.044185	-0.344459 -0.344132	0.00001 -0.00001	-0.00163 -0.00163	0.00001 0.00001
553	-0.004948 -0.005641	0.033306 0.044372	-0.344695 -0.344289	0.00001 0.00000	-0.00007 -0.00007	0.00001 0.00001
554	-0.004947 -0.005640	0.033406 0.044489	-0.345284 -0.344829	0.00000 -0.00001	-0.00027 -0.00030	0.00001 0.00001
555	-0.004947 -0.005640	0.033430 0.044517	-0.345436 -0.344974	0.00000 -0.00001	0.00155 0.00155	0.00001 0.00001
556	-0.004939 -0.005633	0.035709 0.047205	-0.363078 -0.363191	0.00005 0.00003	-0.00011 -0.00011	0.00001 0.00001
557	-0.004937 -0.005631	0.037945 0.049840	-0.367051 -0.367577	0.00020 0.00018	-0.00024 -0.00024	0.00000 0.00000
558	-0.004939 -0.005634	0.040369 0.052693	-0.363926 -0.365027	0.00043 0.00040	0.00003 0.00003	0.00000 0.00000
559	-0.004930 -0.005625	0.042793 0.055549	-0.333696 -0.335773	0.00018 0.00015	-0.00021 -0.00021	0.00002 0.00002
560	-0.004917 -0.005610	0.043398 0.056569	-0.298619 -0.301476	0.00004 0.00000	0.00003 0.00002	0.00000 -0.00001
561	-0.006084 -0.007031	0.033036 0.044205	-0.288379 -0.288583	-0.00008 -0.00010	-0.00035 -0.00035	0.00001 0.00001
562	-0.006552 -0.007594	0.030674 0.041372	-0.306068 -0.306236	0.00011 0.00009	0.00001 0.00001	0.00000 0.00000
563	-0.007137 -0.008251	0.029149 0.039407	-0.271714 -0.272453	0.00015 0.00013	0.00024 0.00024	0.00001 0.00001
564	-0.007858 -0.009148	0.033389 0.044628	-0.246779 -0.247737	0.00000 -0.00002	-0.00027 -0.00028	0.00001 0.00001
565	-0.008297 -0.009684	0.031000 0.041768	-0.242902 -0.244087	0.00001 -0.00001	0.00001 0.00001	0.00000 0.00000
566	-0.009194 -0.010653	0.029352 0.039830	-0.220387 -0.222050	0.00007 0.00006	0.00012 0.00012	0.00000 0.00000
567	0.002282 0.002283	0.034163 0.045706	-0.208183 -0.208575	-0.00003 -0.00006	0.00003 0.00003	-0.00001 -0.00001
568	-0.005070 -0.005958	0.038175 0.050942	-0.352260 -0.351913	-0.00012 -0.00015	0.00000 0.00000	0.00002 0.00002
569	-0.004602 -0.005491	0.038647 0.051448	-0.352064 -0.351660	-0.00012 -0.00015	0.00000 0.00000	0.00001 0.00002
570	-0.004449 -0.005338	0.038776 0.051585	-0.351967 -0.351545	-0.00012 -0.00015	0.00000 0.00000	0.00001 0.00001
571	-0.004328 -0.005216	0.038894 0.051710	-0.351902 -0.351461	-0.00013 -0.00015	0.00000 0.00000	0.00001 0.00001
572	-0.007570 -0.007562	0.040084 0.053083	-0.215739 -0.211291	0.00014 0.00012	0.00000 0.00001	-0.00017 -0.00017
573	-0.006433 -0.006379	0.028909 0.041829	-0.209428 -0.207942	0.00001 -0.00001	-0.00004 -0.00004	-0.00002 -0.00002
574	0.002765 0.002884	0.039420 0.052415	-0.202793 -0.201299	-0.00006 -0.00008	0.00001 0.00001	-0.00001 -0.00001
575	0.005006 0.005092	0.028031 0.040924	-0.232343 -0.231007	-0.00009 -0.00010	0.00026 0.00026	-0.00012 -0.00012

576	0.000725 0.000863	0.038967 0.052549	-0.205381 -0.203897	-0.00007 -0.00009	0.00001 0.00001	0.00002 0.00002
577	0.001318 0.001452	0.040796 0.054475	-0.204272 -0.202801	-0.00007 -0.00009	0.00000 0.00000	0.00002 0.00002
578	0.001842 0.001971	0.041392 0.055117	-0.203915 -0.202433	-0.00006 -0.00008	-0.00004 -0.00004	0.00001 0.00001
579	0.001887 0.002017	0.041808 0.055598	-0.202873 -0.201368	-0.00006 -0.00009	-0.00006 -0.00006	0.00001 0.00001
580	-0.001028 -0.001009	0.039245 0.052826	-0.212731 -0.213156	0.00000 0.00000	0.00001 0.00001	0.00002 0.00002
581	0.000416 0.000417	0.041713 0.055516	-0.209804 -0.210199	0.00000 0.00000	-0.00005 -0.00005	0.00003 0.00003
582	-0.002549 -0.002674	0.039501 0.053081	-0.219589 -0.221918	-0.00003 -0.00005	0.00002 0.00002	0.00001 0.00001
583	-0.002205 -0.002328	0.040300 0.054001	-0.218322 -0.220610	-0.00002 -0.00005	0.00000 0.00000	0.00001 0.00001
584	-0.001876 -0.001994	0.042009 0.055810	-0.216919 -0.219219	-0.00003 -0.00005	-0.00004 -0.00004	0.00003 0.00003
585	-0.009179 -0.010143	0.049392 0.063753	-0.338339 -0.338202	0.00000 -0.00002	0.00000 0.00000	-0.00002 -0.00002
586	-0.009121 -0.010086	0.049265 0.063626	-0.338324 -0.338173	0.00000 -0.00002	0.00000 0.00000	-0.00002 -0.00002
587	-0.008304 -0.009268	0.048339 0.062740	-0.337359 -0.337047	-0.00002 -0.00005	0.00000 0.00000	-0.00001 -0.00001
588	-0.006344 -0.007368	0.050239 0.065439	-0.359852 -0.359489	-0.00015 -0.00018	0.00000 0.00000	0.00002 0.00002
589	-0.005990 -0.007014	0.050747 0.065993	-0.359317 -0.358915	-0.00015 -0.00018	0.00000 0.00000	0.00002 0.00002
590	-0.005782 -0.006806	0.051060 0.066332	-0.359022 -0.358596	-0.00015 -0.00018	0.00000 0.00000	0.00002 0.00002
591	-0.005749 -0.006773	0.051112 0.066389	-0.358968 -0.358539	-0.00015 -0.00018	0.00000 0.00000	0.00002 0.00002
592	-0.013719 -0.014478	0.060810 0.078751	-0.429540 -0.438496	0.00043 0.00047	-0.00006 -0.00006	-0.00002 -0.00004
593	-0.014303 -0.015045	0.067607 0.085461	-0.422381 -0.432068	0.00044 0.00048	-0.00010 -0.00009	-0.00017 -0.00016
594	-0.014878 -0.015610	0.068839 0.086669	-0.417733 -0.427557	0.00042 0.00046	-0.00021 -0.00021	0.00043 0.00043
595	-0.014997 -0.015737	0.071336 0.089192	-0.412574 -0.421950	0.00045 0.00048	0.00008 0.00009	-0.00029 -0.00030
596	-0.019361 -0.020114	0.061444 0.079325	-0.345678 -0.347815	-0.00015 -0.00018	0.00012 0.00012	0.00003 0.00003
597	-0.019195 -0.019949	0.067189 0.085051	-0.354140 -0.357136	0.00011 0.00012	-0.00012 -0.00012	0.00003 0.00003
598	-0.019005 -0.019764	0.067862 0.085726	-0.350242 -0.353319	0.00011 0.00012	-0.00018 -0.00018	0.00003 0.00003
599	-0.018476 -0.019252	0.070130 0.088071	-0.305763 -0.308671	-0.00010 -0.00013	-0.00020 -0.00020	0.00001 0.00001
600	0.001035 0.001170	0.042756 0.057061	-0.204798 -0.203323	-0.00007 -0.00009	-0.00001 0.00000	0.00001 0.00001
601	-0.007964 -0.009091	0.060561 0.078136	-0.366917 -0.366549	-0.00008 -0.00011	0.00000 0.00000	0.00001 0.00001
602	-0.007544 -0.008671	0.060981 0.078612	-0.366599 -0.366196	-0.00008 -0.00010	0.00000 0.00000	0.00002 0.00002
603	-0.007390 -0.008517	0.061163 0.078816	-0.366489 -0.366076	-0.00008 -0.00010	0.00000 0.00000	0.00002 0.00002
604	-0.007255 -0.008382	0.061355 0.079032	-0.366332 -0.365907	-0.00008 -0.00010	0.00000 0.00000	0.00002 0.00002

605	-0.007215 -0.007058	0.051222 0.066823	-0.234990 -0.234125	-0.00007 -0.00008	0.00002 0.00002	0.00001 0.00002
606	-0.008852 -0.008748	0.045142 0.060746	-0.218555 -0.213979	0.00010 0.00008	-0.00008 -0.00009	-0.00008 -0.00008
607	-0.000369 -0.000225	0.053005 0.068662	-0.229933 -0.228991	0.00006 0.00005	-0.00019 -0.00019	-0.00006 -0.00006
608	-0.000461 -0.000320	0.045811 0.061420	-0.207197 -0.205717	-0.00007 -0.00009	-0.00004 -0.00004	0.00001 0.00001
609	-0.002972 -0.002988	0.051845 0.068676	-0.216782 -0.217195	-0.00009 -0.00011	-0.00004 -0.00004	0.00001 0.00001
610	-0.002165 -0.001762	0.047918 0.063489	-0.330811 -0.329321	-0.00025 -0.00027	0.00012 0.00012	0.00001 0.00001
611	-0.002144 -0.001741	0.050762 0.067088	-0.298920 -0.297896	-0.00033 -0.00035	-0.00013 -0.00013	0.00000 0.00000
612	-0.002120 -0.001718	0.053061 0.070043	-0.238248 -0.237358	-0.00004 -0.00006	0.00006 0.00006	0.00001 0.00001
613	-0.002070 -0.001666	0.055855 0.073722	-0.219079 -0.217563	-0.00032 -0.00034	0.00000 0.00000	0.00000 0.00000
614	-0.002068 -0.001663	0.057802 0.076214	-0.307410 -0.307094	-0.00038 -0.00040	0.00018 0.00018	0.00001 0.00001
615	-0.002065 -0.001659	0.060489 0.079665	-0.340995 -0.340501	-0.00018 -0.00019	-0.00002 -0.00002	0.00000 0.00001
616	-0.002061 -0.001655	0.063010 0.082901	-0.351735 -0.351036	-0.00015 -0.00016	-0.00002 -0.00003	0.00000 0.00001
617	-0.002057 -0.001651	0.065361 0.085916	-0.355255 -0.354359	-0.00012 -0.00013	0.00001 0.00001	0.00000 0.00001
618	-0.002051 -0.001646	0.067910 0.089179	-0.355719 -0.354471	-0.00009 -0.00011	-0.00001 -0.00001	0.00000 0.00001
619	-0.002046 -0.001640	0.070477 0.092458	-0.345735 -0.343809	-0.00025 -0.00026	-0.00013 -0.00013	0.00000 0.00001
620	-0.002043 -0.001637	0.072470 0.095003	-0.320342 -0.317684	-0.00014 -0.00016	-0.00010 -0.00010	0.00001 0.00001
621	-0.002957 -0.002825	0.053876 0.071128	-0.207725 -0.206263	-0.00011 -0.00013	-0.00003 -0.00003	0.00000 0.00000
622	-0.002948 -0.002816	0.054338 0.071763	-0.205759 -0.204286	-0.00009 -0.00012	-0.00002 -0.00002	0.00000 0.00001
623	-0.002949 -0.002817	0.054970 0.072567	-0.203772 -0.202270	-0.00009 -0.00011	0.00001 0.00001	0.00001 0.00001
624	-0.003525 -0.003543	0.053672 0.070926	-0.216678 -0.217094	-0.00007 -0.00009	-0.00004 -0.00004	0.00002 0.00002
625	-0.003720 -0.003738	0.055517 0.073110	-0.211238 -0.211632	-0.00007 -0.00009	0.00004 0.00004	0.00001 0.00001
626	-0.004129 -0.004200	0.053898 0.070878	-0.230542 -0.231624	-0.00025 -0.00026	-0.00008 -0.00008	0.00000 0.00000
627	-0.004069 -0.004141	0.053655 0.070909	-0.219524 -0.220608	-0.00009 -0.00011	-0.00004 -0.00004	0.00001 0.00001
628	-0.004075 -0.004245	0.053663 0.070917	-0.224760 -0.227052	-0.00026 -0.00028	-0.00010 -0.00010	0.00000 0.00000
629	-0.004080 -0.004249	0.054311 0.071737	-0.220680 -0.222985	-0.00020 -0.00022	-0.00013 -0.00013	0.00001 0.00001
630	-0.004080 -0.004250	0.054958 0.072556	-0.220976 -0.223249	-0.00020 -0.00022	0.00015 0.00014	0.00000 0.00001
631	-0.004242 -0.004410	0.055984 0.073859	-0.275842 -0.277466	0.00008 0.00007	0.00044 0.00044	0.00000 0.00001
632	-0.004594 -0.004843	0.047922 0.063492	-0.380095 -0.379978	-0.00007 -0.00008	0.00046 0.00046	0.00000 0.00000
633	-0.004621 -0.004871	0.050533 0.066859	-0.410847 -0.411130	0.00003 0.00002	-0.00018 -0.00018	0.00001 0.00001
634	-0.004369	0.052757	-0.279784	-0.00033	-0.00022	0.00000

	-0.004619	0.069742	-0.281830	-0.00035	-0.00022	0.00001
635	-0.004370 -0.004621	0.055907 0.073779	-0.274904 -0.277203	-0.00011 -0.00012	0.00039 0.00038	0.00000 0.00000
636	-0.004375 -0.004626	0.057803 0.076216	-0.394585 -0.395090	-0.00002 -0.00003	0.00047 0.00047	0.00001 0.00001
637	-0.004378 -0.004628	0.060489 0.079666	-0.450379 -0.450497	-0.00009 -0.00010	-0.00008 -0.00008	0.00000 0.00001
638	-0.004380 -0.004630	0.063011 0.082902	-0.442347 -0.442508	-0.00008 -0.00010	-0.00005 -0.00005	0.00000 0.00001
639	-0.004382 -0.004633	0.065380 0.085935	-0.440794 -0.440945	-0.00027 -0.00028	-0.00020 -0.00020	0.00000 0.00001
640	-0.004388 -0.004639	0.067928 0.089196	-0.442989 -0.443062	-0.00045 -0.00046	0.00000 0.00000	0.00001 0.00001
641	-0.004394 -0.004645	0.070478 0.092460	-0.404111 -0.403683	-0.00013 -0.00015	-0.00014 -0.00014	0.00000 0.00000
642	-0.004392 -0.004643	0.071429 0.093666	-0.402142 -0.401492	-0.00005 -0.00007	-0.00014 -0.00014	0.00000 0.00000
643	-0.004545 -0.004787	0.072103 0.094700	-0.343252 -0.342681	0.00005 0.00003	-0.00021 -0.00021	0.00000 0.00001
644	-0.007916 -0.009141	0.047932 0.063500	-0.376220 -0.377455	0.00015 0.00013	0.00024 0.00024	0.00001 0.00001
645	-0.007897 -0.009123	0.050536 0.066859	-0.403097 -0.403824	-0.00001 -0.00002	-0.00005 -0.00005	0.00000 0.00001
646	-0.007871 -0.009096	0.052734 0.069717	-0.402037 -0.402397	-0.00002 -0.00004	0.00008 0.00008	0.00000 0.00001
647	-0.007858 -0.009082	0.055238 0.072921	-0.343291 -0.343153	-0.00008 -0.00009	-0.00180 -0.00180	0.00000 0.00001
648	-0.007857 -0.009082	0.055297 0.072996	-0.343135 -0.342981	-0.00008 -0.00009	0.00123 0.00121	0.00001 0.00001
649	-0.007852 -0.009076	0.055901 0.073774	-0.346456 -0.346160	-0.00003 -0.00005	0.00043 0.00043	0.00002 0.00002
650	-0.007840 -0.009064	0.057813 0.076226	-0.406454 -0.406197	-0.00007 -0.00008	0.00020 0.00019	0.00000 0.00000
651	-0.007826 -0.009052	0.060332 0.079457	-0.373408 -0.373039	0.00008 0.00007	-0.00194 -0.00194	0.00001 0.00001
652	-0.007825 -0.009050	0.060490 0.079665	-0.373842 -0.373440	0.00009 0.00008	0.00006 0.00006	0.00001 0.00001
653	-0.007824 -0.009050	0.060589 0.079793	-0.373869 -0.373442	0.00010 0.00009	-0.00037 -0.00039	0.00001 0.00001
654	-0.007824 -0.009050	0.060608 0.079819	-0.374064 -0.373634	0.00010 0.00009	0.00154 0.00154	0.00001 0.00001
655	-0.007836 -0.009063	0.063011 0.082902	-0.393185 -0.393331	0.00006 0.00005	-0.00008 -0.00008	0.00000 0.00001
656	-0.007847 -0.009074	0.065378 0.085933	-0.395143 -0.395704	0.00021 0.00019	-0.00020 -0.00020	0.00000 0.00001
657	-0.007857 -0.009084	0.067932 0.089200	-0.392449 -0.393590	0.00042 0.00040	0.00000 0.00001	0.00000 0.00000
658	-0.007861 -0.009088	0.070504 0.092486	-0.355323 -0.357472	0.00018 0.00016	-0.00012 -0.00012	0.00001 0.00001
659	-0.007812 -0.009036	0.072949 0.095544	-0.310394 -0.313314	0.00007 0.00005	0.00015 0.00015	0.00000 0.00000
660	-0.009291 -0.010926	0.060924 0.080229	-0.296127 -0.296345	0.00006 0.00005	-0.00038 -0.00039	0.00001 0.00001
661	-0.009830 -0.011618	0.058219 0.076758	-0.319051 -0.319228	0.00024 0.00023	0.00001 0.00001	0.00001 0.00001
662	-0.010351 -0.012271	0.055552 0.073390	-0.279953 -0.280696	0.00025 0.00024	0.00029 0.00029	0.00000 0.00001
663	-0.011334 -0.013534	0.061327 0.080747	-0.251797 -0.252769	0.00005 0.00004	-0.00021 -0.00022	0.00001 0.00001



664	-0.011839 -0.014192	0.058623 0.077276	-0.251221 -0.252430	0.00010 0.00009	0.00002 0.00002	0.00001 0.00001
665	-0.010754 -0.013245	0.055114 0.073146	-0.225114 -0.226801	0.00013 0.00013	0.00014 0.00014	0.00000 0.00000
666	-0.006011 -0.005907	0.071149 0.091905	-0.208237 -0.206809	-0.00010 -0.00012	0.00000 0.00000	0.00000 0.00000
667	-0.005991 -0.005888	0.071325 0.092278	-0.206727 -0.205279	-0.00011 -0.00013	0.00000 0.00000	0.00000 0.00000
668	-0.005924 -0.005821	0.070784 0.091882	-0.205042 -0.203586	-0.00009 -0.00011	-0.00004 -0.00004	0.00000 0.00000
669	-0.005191 -0.005236	0.071183 0.091939	-0.216977 -0.217396	0.00000 0.00000	0.00002 0.00002	0.00000 0.00000
670	-0.005932 -0.005983	0.070886 0.091985	-0.213501 -0.213893	0.00000 0.00000	-0.00006 -0.00006	-0.00001 0.00000
671	-0.005925 -0.006112	0.071207 0.091964	-0.225271 -0.227542	-0.00008 -0.00010	0.00002 0.00002	0.00001 0.00001
672	-0.005654 -0.005845	0.071930 0.092845	-0.223536 -0.225799	-0.00006 -0.00008	0.00000 0.00000	0.00000 0.00000
673	-0.005355 -0.005549	0.071203 0.092298	-0.221945 -0.224188	-0.00006 -0.00008	-0.00002 -0.00002	-0.00001 -0.00001
674	-0.010210 -0.009871	0.098287 0.120862	-0.336052 -0.334540	-0.00033 -0.00035	0.00013 0.00013	-0.00001 -0.00001
675	-0.010212 -0.009873	0.093882 0.117189	-0.307614 -0.306570	-0.00046 -0.00048	-0.00013 -0.00013	-0.00001 -0.00001
676	-0.010211 -0.009871	0.090024 0.113970	-0.245053 -0.244084	-0.00028 -0.00029	-0.00013 -0.00013	-0.00001 -0.00001
677	-0.010208 -0.009867	0.084912 0.109711	-0.225830 -0.224270	-0.00028 -0.00029	0.00006 0.00006	-0.00001 -0.00001
678	-0.010209 -0.009867	0.081783 0.107104	-0.314734 -0.314391	-0.00037 -0.00038	0.00024 0.00024	-0.00001 -0.00001
679	-0.010216 -0.009873	0.077374 0.103431	-0.350122 -0.349606	-0.00027 -0.00028	-0.00003 -0.00003	-0.00001 -0.00001
680	-0.010221 -0.009877	0.073245 0.099993	-0.360069 -0.359350	-0.00022 -0.00023	-0.00002 -0.00002	-0.00001 -0.00001
681	-0.010226 -0.009880	0.069398 0.096791	-0.363396 -0.362480	-0.00015 -0.00016	0.00000 0.00000	-0.00001 -0.00001
682	-0.010231 -0.009885	0.065254 0.093342	-0.364065 -0.362797	-0.00010 -0.00011	-0.00001 -0.00001	-0.00001 -0.00001
683	-0.010237 -0.009890	0.061106 0.089891	-0.352985 -0.351040	-0.00019 -0.00020	-0.00016 -0.00016	-0.00001 -0.00001
684	-0.010238 -0.009890	0.057918 0.087240	-0.324443 -0.321773	-0.00009 -0.00010	-0.00009 -0.00009	-0.00001 -0.00001
685	-0.008640 -0.008562	0.088452 0.112659	-0.209046 -0.207644	-0.00001 -0.00003	-0.00012 -0.00013	-0.00001 -0.00001
686	-0.008640 -0.008562	0.087461 0.111834	-0.207287 -0.205854	-0.00009 -0.00011	-0.00001 -0.00001	-0.00001 -0.00001
687	-0.008641 -0.008562	0.086472 0.111011	-0.206133 -0.204702	-0.00002 -0.00004	0.00008 0.00008	-0.00001 -0.00001
688	-0.007764 -0.007832	0.088450 0.112658	-0.217513 -0.217935	-0.00010 -0.00012	-0.00004 -0.00004	-0.00002 -0.00002
689	-0.007771 -0.007839	0.086472 0.111012	-0.214459 -0.214853	-0.00010 -0.00012	0.00001 0.00001	0.00000 0.00000
690	-0.006893 -0.007107	0.088449 0.112656	-0.226296 -0.228546	-0.00013 -0.00015	-0.00019 -0.00019	-0.00002 -0.00002
691	-0.006895 -0.007109	0.087462 0.111836	-0.224346 -0.226594	-0.00009 -0.00011	-0.00002 -0.00002	-0.00001 -0.00001
692	-0.006895 -0.007109	0.086473 0.111012	-0.223343 -0.225566	-0.00014 -0.00015	0.00018 0.00018	0.00000 0.00000

693	-0.006406 -0.006698	0.098283 0.120858	-0.390619 -0.390515	-0.00005 -0.00007	0.00055 0.00055	-0.00001 -0.00001
694	-0.006413 -0.006705	0.093875 0.117183	-0.426200 -0.426501	0.00002 0.00001	-0.00026 -0.00026	-0.00001 -0.00001
695	-0.006418 -0.006710	0.090023 0.113969	-0.292966 -0.295039	-0.00001 -0.00002	-0.00013 -0.00012	-0.00001 -0.00001
696	-0.006421 -0.006713	0.084910 0.109709	-0.286316 -0.288613	-0.00007 -0.00008	0.00003 0.00003	-0.00001 -0.00001
697	-0.006416 -0.006708	0.081781 0.107102	-0.408664 -0.409186	-0.00006 -0.00007	0.00056 0.00056	-0.00001 -0.00001
698	-0.006417 -0.006709	0.077373 0.103430	-0.466524 -0.466649	-0.00011 -0.00012	-0.00010 -0.00010	-0.00001 -0.00001
699	-0.006420 -0.006712	0.073244 0.099992	-0.457517 -0.457686	-0.00011 -0.00012	-0.00003 -0.00003	-0.00001 -0.00001
700	-0.006423 -0.006715	0.069397 0.096790	-0.455958 -0.456115	-0.00031 -0.00032	-0.00017 -0.00017	-0.00001 -0.00001
701	-0.006426 -0.006717	0.065253 0.093341	-0.458874 -0.458951	-0.00053 -0.00054	0.00003 0.00003	-0.00001 -0.00001
702	-0.006428 -0.006720	0.061104 0.089888	-0.418651 -0.418232	-0.00042 -0.00043	-0.00031 -0.00031	-0.00001 -0.00001
703	-0.006428 -0.006720	0.057915 0.087236	-0.352003 -0.351441	-0.00020 -0.00021	-0.00009 -0.00009	-0.00001 -0.00001
704	-0.000749 -0.001981	0.098278 0.120854	-0.383351 -0.384592	0.00014 0.00013	0.00034 0.00034	-0.00001 0.00000
705	-0.000758 -0.001990	0.093873 0.117180	-0.414209 -0.414949	0.00007 0.00006	-0.00007 -0.00007	-0.00001 -0.00001
706	-0.000761 -0.001994	0.090027 0.113973	-0.413830 -0.414207	-0.00004 -0.00005	0.00016 0.00016	-0.00001 -0.00001
707	-0.000766 -0.002000	0.084908 0.109707	-0.358375 -0.358099	0.00004 0.00004	-0.00030 -0.00030	-0.00001 0.00000
708	-0.000768 -0.002003	0.081782 0.107103	-0.415549 -0.415303	0.00013 0.00012	0.00020 0.00020	-0.00001 -0.00001
709	-0.000774 -0.002010	0.077371 0.103428	-0.385788 -0.385403	0.00021 0.00020	-0.00007 -0.00007	-0.00001 -0.00001
710	-0.000778 -0.002016	0.073241 0.099989	-0.404105 -0.404262	0.00023 0.00022	0.00005 0.00005	-0.00001 -0.00001
711	-0.000782 -0.002021	0.069383 0.096776	-0.405975 -0.406551	0.00041 0.00040	-0.00019 -0.00019	-0.00001 -0.00001
712	-0.000784 -0.002024	0.065231 0.093320	-0.403291 -0.404446	0.00072 0.00070	0.00001 0.00001	-0.00001 -0.00001
713	-0.000787 -0.002027	0.061089 0.089874	-0.365343 -0.367503	0.00073 0.00072	-0.00011 -0.00011	-0.00001 -0.00001
714	-0.000787 -0.002028	0.057905 0.087226	-0.316171 -0.319096	0.00049 0.00048	-0.00018 -0.00018	-0.00001 -0.00001
715	-0.009600 -0.009543	0.091887 0.116867	-0.209054 -0.207654	-0.00011 -0.00013	0.00000 0.00000	0.00000 0.00000
716	-0.009205 -0.009133	0.091065 0.116207	-0.207389 -0.205958	-0.00010 -0.00012	-0.00001 -0.00001	-0.00001 -0.00001
717	-0.008843 -0.008757	0.089906 0.115220	-0.206127 -0.204697	-0.00010 -0.00012	-0.00003 -0.00003	-0.00001 -0.00001
718	-0.008744 -0.008819	0.092137 0.117124	-0.217598 -0.218020	-0.00009 -0.00011	-0.00001 -0.00001	-0.00001 -0.00001
719	-0.007912 -0.007984	0.090162 0.115482	-0.214561 -0.214954	-0.00009 -0.00011	-0.00002 -0.00002	-0.00001 -0.00001
720	-0.008077 -0.008286	0.092280 0.117270	-0.226289 -0.228538	-0.00008 -0.00010	0.00001 0.00001	-0.00004 -0.00004
721	-0.007450 -0.007669	0.091238 0.116386	-0.224458 -0.226706	-0.00009 -0.00011	-0.00001 -0.00001	-0.00001 -0.00001
722	-0.006801	0.090333	-0.223333	-0.00008	-0.00004	0.00002

-0.007028 0.115655 -0.225555 -0.00010 -0.00004 0.00002

SPOSTAMENTI NODI

CASO DI CARICO : 3 SLU VENT0Y COMBINAZIONE

N. 10 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.30
2	Peso_proprio_Fondaz	+	1.30
3	Permanente	+	1.50
4	Variabile	+	1.50
5	Var_cop_praticabile	+	1.50
6	Var_cop_non_pratica	+	1.50
7	Variabile_Scale	+	1.50
9	Vento_Y	+-	1.50
10	Neve	+	1.50
11	Spinta_terre	+	1.50

1)	+1.30*c001	+1.30*c002	+1.50*c003	+1.50*c004	+1.50*c005
)	+1.50*c006	+1.50*c007	+1.50*c009	+1.50*c010	+1.50*c011
2)	+1.30*c001	+1.30*c002	+1.50*c003	+1.50*c004	+1.50*c005
)	+1.50*c006	+1.50*c007	-1.50*c009	+1.50*c010	+1.50*c011

Unità di misura: SX,SY,SZ [cm]; RX,RY,RZ [rad]

Coefficiente moltiplicativo: 1.000000

Nodo	SX	SY	SZ	RX	RY	RZ
457	0.002083 0.001493	0.033142 -0.001792	-0.201204 -0.198205	-0.00011 0.00005	0.00003 0.00003	-0.00001 0.00000
458	-0.006064 -0.005292	0.001148 -0.017613	-0.310395 -0.312135	-0.00031 -0.00005	0.00000 0.00000	-0.00012 -0.00013
459	-0.005575 -0.004791	-0.002578 -0.021326	-0.308325 -0.310781	-0.00032 -0.00006	0.00000 0.00000	-0.00013 -0.00013
460	-0.005393 -0.004595	-0.003923 -0.022617	-0.307709 -0.310413	-0.00033 -0.00006	0.00000 0.00000	-0.00014 -0.00013
461	-0.005173 -0.004361	-0.005289 -0.023910	-0.306966 -0.309917	-0.00033 -0.00007	0.00000 0.00000	-0.00014 -0.00013
462	-0.002324 -0.001478	0.042224 -0.002689	-0.185575 -0.201634	0.00009 0.00001	0.00000 -0.00028	0.00007 -0.00012
463	-0.002329 -0.001664	0.041956 -0.002764	-0.185524 -0.199030	-0.00010 -0.00001	-0.00001 -0.00025	-0.00001 0.00001
464	-0.001808 -0.001534	0.035299 -0.008376	-0.186702 -0.197307	-0.00020 -0.00005	0.00001 0.00011	-0.00008 -0.00007
465	0.003143 0.002419	0.041442 -0.003083	-0.191445 -0.200536	-0.00007 0.00001	0.00000 -0.00001	0.00000 0.00000
466	0.004184 0.003671	0.034378 -0.008955	-0.208738 -0.218579	-0.00013 -0.00008	0.00014 0.00020	-0.00014 -0.00011
467	-0.002142 -0.002541	0.049458 0.000544	-0.186177 -0.199955	-0.00024 -0.00010	0.00000 0.00000	-0.00004 -0.00004
468	-0.001318 -0.001800	0.042813 -0.006533	-0.188533 -0.198906	-0.00022 -0.00007	0.00000 0.00000	-0.00010 -0.00010
469	0.001738 0.000232	0.040646 -0.004362	-0.191729 -0.202575	-0.00017 0.00000	0.00003 0.00001	0.00004 0.00002
470	0.002268 0.000944	0.044245 -0.002928	-0.192058 -0.201949	-0.00014 0.00000	0.00000 0.00000	0.00002 0.00000
471	0.002713 0.001424	0.045226 -0.003030	-0.192141 -0.201829	-0.00012 0.00001	-0.00002 -0.00002	0.00002 -0.00001
472	0.002804 0.001645	0.045832 -0.003579	-0.191886 -0.201372	-0.00013 0.00002	-0.00002 -0.00004	0.00001 0.00000
473	-0.000353 -0.001181	0.040873 -0.003924	-0.204977 -0.202340	0.00000 0.00000	0.00003 0.00002	0.00001 0.00001
474	0.001980 0.001001	0.046149 -0.003326	-0.204178 -0.201104	0.00000 0.00000	-0.00003 -0.00003	0.00001 0.00001
475	-0.000783 -0.001004	0.041409 -0.003428	-0.217975 -0.201740	-0.00012 0.00004	0.00002 0.00003	0.00001 -0.00001
476	-0.000036 -0.000470	0.043362 -0.003931	-0.217119 -0.201237	-0.00011 0.00005	0.00000 0.00000	0.00003 0.00001

477	0.000642 0.000043	0.046568 -0.002918	-0.216402 -0.200503	-0.00011 0.00004	-0.00003 -0.00003	0.00003 0.00001
478	-0.005315 0.000292	0.004732 -0.031321	-0.319449 -0.319698	-0.00040 -0.00012	0.00000 0.00000	0.00016 0.00008
479	-0.005191 0.000411	0.006156 -0.030554	-0.319317 -0.319799	-0.00040 -0.00012	0.00000 0.00000	0.00016 0.00009
480	-0.003993 0.001613	0.021783 -0.022120	-0.317380 -0.320388	-0.00030 -0.00007	0.00000 0.00000	0.00016 0.00009
481	-0.009982 -0.006496	0.033260 -0.011781	-0.320985 -0.322576	-0.00042 -0.00009	0.00000 0.00000	-0.00008 -0.00008
482	-0.009394 -0.005907	0.030946 -0.014251	-0.320161 -0.322804	-0.00044 -0.00010	0.00000 0.00000	-0.00008 -0.00008
483	-0.009048 -0.005558	0.029599 -0.015678	-0.319687 -0.322932	-0.00046 -0.00011	0.00000 0.00000	-0.00008 -0.00008
484	-0.008995 -0.005505	0.029393 -0.015896	-0.319639 -0.322980	-0.00046 -0.00011	0.00000 0.00000	-0.00008 -0.00008
485	-0.000947 0.002948	0.068797 -0.004303	-0.460721 -0.363191	0.00066 0.00023	-0.00018 -0.00024	-0.00017 0.00003
486	-0.001431 0.002334	0.074428 0.007575	-0.446321 -0.332161	0.00065 0.00019	-0.00006 -0.00016	0.00005 0.00023
487	-0.002032 0.001755	0.075347 0.009888	-0.442027 -0.328465	0.00062 0.00017	-0.00020 -0.00007	0.00082 0.00091
488	-0.002056 0.001816	0.075267 0.016673	-0.465453 -0.368908	0.00066 0.00026	0.00038 0.00044	-0.00059 -0.00035
489	-0.005449 -0.008605	0.068504 -0.003805	-0.328215 -0.309410	-0.00034 -0.00011	0.00014 0.00012	0.00004 0.00006
490	-0.005063 -0.008402	0.073639 0.007170	-0.344119 -0.315249	0.00013 0.00001	-0.00007 -0.00011	0.00002 0.00006
491	-0.004833 -0.008198	0.074079 0.008649	-0.341666 -0.311785	0.00012 0.00001	-0.00012 -0.00016	0.00002 0.00006
492	-0.004401 -0.007730	0.074553 0.015465	-0.304303 -0.278807	-0.00028 0.00003	-0.00017 -0.00010	-0.00004 -0.00002
493	0.002395 0.000628	0.048194 -0.003257	-0.192673 -0.202856	-0.00013 0.00002	0.00000 -0.00003	0.00002 0.00000
494	-0.011097 -0.004261	0.066965 -0.005710	-0.331929 -0.333537	-0.00034 -0.00005	0.00000 0.00000	-0.00003 -0.00004
495	-0.010440 -0.003598	0.066090 -0.006911	-0.331884 -0.334668	-0.00036 -0.00006	0.00000 0.00000	-0.00002 -0.00004
496	-0.010206 -0.003361	0.065864 -0.007283	-0.331796 -0.334972	-0.00036 -0.00007	0.00000 0.00000	-0.00002 -0.00004
497	-0.009992 -0.003144	0.065648 -0.007655	-0.331690 -0.335253	-0.00037 -0.00007	0.00000 0.00000	-0.00002 -0.00004
498	-0.009320 -0.013479	0.066288 0.008535	-0.213413 -0.219019	-0.00005 0.00012	0.00013 0.00014	0.00003 0.00003
499	-0.011102 -0.014927	0.054232 -0.004576	-0.201990 -0.230657	0.00011 0.00021	-0.00012 -0.00003	-0.00013 -0.00017
500	0.002304 -0.000385	0.067302 0.009179	-0.224535 -0.235098	0.00002 0.00007	-0.00027 -0.00029	-0.00009 -0.00008
501	0.002083 -0.000501	0.054594 -0.005051	-0.194028 -0.205666	-0.00013 0.00002	-0.00004 -0.00003	0.00001 0.00000
502	0.000022 -0.001207	0.064835 -0.004650	-0.210843 -0.208065	-0.00016 0.00000	-0.00002 -0.00002	0.00001 0.00000
503	0.016014 -0.003783	0.066150 -0.004115	-0.160575 -0.171998	-0.00020 -0.00015	0.00034 0.00030	0.00004 -0.00004
504	0.016025 -0.003773	0.071386 -0.004884	-0.175894 -0.183196	-0.00054 -0.00050	-0.00014 -0.00017	0.00004 -0.00001
505	0.016045 -0.003754	0.078040 -0.005800	-0.170260 -0.175402	-0.00056 -0.00039	-0.00012 -0.00015	-0.00006 0.00006

506	0.009759 -0.002943	0.066171 -0.004094	-0.180362 -0.189085	-0.00037 -0.00025	0.00048 0.00046	0.00001 0.00000
507	0.009774 -0.002929	0.071380 -0.004881	-0.226387 -0.229938	-0.00037 -0.00033	-0.00016 -0.00018	0.00003 0.00002
508	0.009790 -0.002914	0.078023 -0.005812	-0.217036 -0.219602	-0.00016 -0.00002	-0.00004 -0.00006	0.00001 -0.00001
509	0.003167 -0.002144	0.054125 -0.002584	-0.310555 -0.320574	-0.00033 -0.00020	0.00022 0.00021	0.00008 -0.00006
510	0.003236 -0.002069	0.060652 -0.003319	-0.272185 -0.279399	-0.00036 -0.00023	-0.00011 -0.00012	-0.00002 0.00000
511	0.003295 -0.002006	0.066171 -0.004094	-0.219633 -0.225566	0.00003 0.00017	0.00006 0.00005	0.00003 0.00003
512	0.003333 -0.001968	0.071328 -0.004921	-0.189332 -0.203478	0.00071 0.00081	-0.00039 -0.00036	-0.00018 -0.00019
513	0.003330 -0.001968	0.073477 -0.005198	-0.196641 -0.206904	-0.00022 -0.00006	0.00005 0.00005	-0.00003 -0.00004
514	0.003308 -0.001983	0.077995 -0.005840	-0.286908 -0.288861	0.00003 0.00015	0.00022 0.00020	0.00005 -0.00003
515	0.003294 -0.001993	0.084395 -0.006706	-0.315057 -0.318892	-0.00025 -0.00011	-0.00004 -0.00005	0.00000 0.00000
516	0.003283 -0.002003	0.090396 -0.007494	-0.326561 -0.332408	-0.00024 -0.00009	-0.00002 -0.00003	0.00001 0.00000
517	0.003278 -0.002009	0.095984 -0.008256	-0.329394 -0.337236	-0.00021 -0.00005	0.00002 0.00001	0.00002 -0.00001
518	0.003274 -0.002012	0.101988 -0.009030	-0.327442 -0.338669	-0.00019 -0.00003	0.00001 0.00000	0.00002 0.00000
519	0.003271 -0.002010	0.107992 -0.009744	-0.316527 -0.333942	-0.00038 -0.00020	-0.00013 -0.00014	-0.00001 0.00000
520	0.003264 -0.002021	0.112630 -0.010333	-0.295246 -0.319369	-0.00042 -0.00015	-0.00008 -0.00008	-0.00001 0.00003
521	0.001091 -0.001634	0.068344 -0.004494	-0.195213 -0.207372	-0.00018 -0.00001	0.00000 -0.00001	0.00001 0.00000
522	0.001097 -0.001628	0.069731 -0.004721	-0.194487 -0.206197	-0.00018 -0.00001	-0.00001 -0.00002	0.00001 0.00000
523	0.001093 -0.001628	0.071219 -0.004887	-0.194021 -0.205584	-0.00016 0.00000	0.00003 0.00003	0.00002 0.00000
524	-0.000246 -0.001508	0.068193 -0.004598	-0.210997 -0.208300	-0.00014 0.00002	-0.00002 -0.00002	0.00002 0.00001
525	-0.000400 -0.001669	0.071655 -0.004477	-0.208144 -0.205118	-0.00014 0.00002	0.00005 0.00005	0.00002 0.00000
526	-0.001041 -0.001791	0.066840 -0.003303	-0.223548 -0.215926	-0.00023 -0.00019	-0.00005 -0.00006	0.00001 0.00000
527	-0.000989 -0.001736	0.068182 -0.004611	-0.216271 -0.208249	-0.00017 0.00000	-0.00003 -0.00003	0.00002 0.00000
528	-0.001556 -0.001357	0.068190 -0.004601	-0.225701 -0.208205	-0.00028 -0.00015	-0.00006 -0.00007	0.00001 -0.00001
529	-0.001558 -0.001363	0.069680 -0.004761	-0.223284 -0.205826	-0.00025 -0.00010	-0.00007 -0.00008	0.00001 0.00000
530	-0.001562 -0.001368	0.071214 -0.004889	-0.223900 -0.206506	-0.00024 -0.00010	0.00009 0.00010	0.00002 0.00000
531	-0.001740 -0.001594	0.072915 -0.005885	-0.248680 -0.233595	-0.00017 -0.00012	0.00021 0.00023	0.00002 0.00000
532	-0.002399 -0.001453	0.054142 -0.002557	-0.352048 -0.352943	-0.00007 0.00004	0.00047 0.00047	-0.00001 -0.00002
533	-0.002415 -0.001462	0.060490 -0.003423	-0.373549 -0.371800	0.00003 0.00014	-0.00021 -0.00021	0.00002 0.00000
534	-0.002246 -0.001276	0.065949 -0.004259	-0.266960 -0.252871	-0.00033 -0.00022	-0.00015 -0.00022	0.00001 -0.00001
535	-0.002228	0.073375	-0.262833	-0.00030	0.00020	0.00001

	-0.001260	-0.005293	-0.245158	-0.00021	0.00025	-0.00001
536	-0.002227 -0.001258	0.077977 -0.005853	-0.360873 -0.357166	-0.00015 0.00002	0.00047 0.00049	0.00001 0.00000
537	-0.002231 -0.001259	0.084394 -0.006698	-0.410811 -0.409938	-0.00020 -0.00002	-0.00008 -0.00008	0.00002 0.00000
538	-0.002232 -0.001255	0.090399 -0.007482	-0.405285 -0.404085	-0.00020 -0.00002	-0.00003 -0.00003	0.00001 0.00000
539	-0.002234 -0.001257	0.095998 -0.008179	-0.403764 -0.402631	-0.00040 -0.00021	-0.00019 -0.00018	0.00001 0.00000
540	-0.002239 -0.001268	0.102001 -0.008938	-0.404126 -0.403715	-0.00061 -0.00041	0.00003 0.00003	0.00001 0.00000
541	-0.002245 -0.001278	0.107974 -0.009753	-0.369008 -0.373164	-0.00031 -0.00009	-0.00018 -0.00017	0.00001 0.00000
542	-0.002244 -0.001280	0.110150 -0.009998	-0.354478 -0.361661	-0.00028 0.00000	-0.00015 -0.00015	0.00001 -0.00001
543	-0.002244 -0.001280	0.110511 -0.010026	-0.349501 -0.356568	-0.00027 0.00002	-0.00020 -0.00020	0.00000 -0.00001
544	-0.002603 -0.001732	0.109699 -0.013507	-0.320358 -0.325905	-0.00023 0.00002	-0.00008 -0.00008	0.00000 -0.00002
545	-0.010367 -0.000138	0.054185 -0.002500	-0.361548 -0.353184	0.00019 0.00031	0.00030 0.00032	-0.00001 0.00006
546	-0.010370 -0.000136	0.060521 -0.003381	-0.377084 -0.371848	-0.00003 0.00009	-0.00011 -0.00009	0.00003 -0.00002
547	-0.010386 -0.000142	0.065956 -0.004255	-0.372926 -0.370110	-0.00010 0.00003	0.00011 0.00013	0.00000 0.00000
548	-0.010423 -0.000166	0.071748 -0.005070	-0.332205 -0.332327	-0.00035 -0.00017	-0.00175 -0.00175	0.00002 -0.00001
549	-0.010424 -0.000166	0.071922 -0.005096	-0.331706 -0.332080	-0.00035 -0.00017	0.00132 0.00160	0.00001 -0.00001
550	-0.010426 -0.000164	0.073346 -0.005315	-0.327657 -0.330691	-0.00021 -0.00007	0.00071 0.00070	0.00000 -0.00001
551	-0.010444 -0.000173	0.077944 -0.005881	-0.373858 -0.375811	-0.00023 -0.00013	0.00010 0.00013	0.00001 0.00000
552	-0.010433 -0.000162	0.083983 -0.006650	-0.343396 -0.345196	-0.00006 0.00006	-0.00163 -0.00164	0.00002 0.00000
553	-0.010430 -0.000159	0.084393 -0.006715	-0.343051 -0.345933	-0.00006 0.00006	-0.00007 -0.00007	0.00002 0.00000
554	-0.010428 -0.000158	0.084630 -0.006735	-0.343287 -0.346826	-0.00006 0.00005	-0.00039 -0.00018	0.00002 0.00000
555	-0.010428 -0.000158	0.084670 -0.006724	-0.343387 -0.347023	-0.00007 0.00005	0.00156 0.00153	0.00002 0.00001
556	-0.010414 -0.000157	0.090392 -0.007479	-0.363917 -0.362352	-0.00005 0.00013	-0.00012 -0.00010	0.00002 0.00000
557	-0.010408 -0.000160	0.095981 -0.008196	-0.369923 -0.364705	0.00008 0.00031	-0.00024 -0.00023	0.00001 0.00000
558	-0.010408 -0.000164	0.102001 -0.008939	-0.369742 -0.359211	0.00029 0.00054	0.00003 0.00003	0.00001 0.00000
559	-0.010399 -0.000157	0.108035 -0.009694	-0.344485 -0.324984	0.00003 0.00030	-0.00023 -0.00018	0.00005 0.00000
560	-0.010409 -0.000117	0.111083 -0.011116	-0.313126 -0.286969	-0.00013 0.00017	0.00001 0.00004	-0.00001 0.00000
561	-0.013581 0.000467	0.084604 -0.007364	-0.289290 -0.287673	-0.00017 0.00000	-0.00037 -0.00033	0.00001 0.00001
562	-0.014816 0.000671	0.078411 -0.006364	-0.306726 -0.305578	0.00002 0.00018	0.00001 0.00001	0.00001 0.00000
563	-0.016100 0.000711	0.073478 -0.004921	-0.274933 -0.269234	0.00006 0.00022	0.00022 0.00026	0.00002 0.00000
564	-0.018187 0.001181	0.085521 -0.007504	-0.250770 -0.243747	-0.00009 0.00007	-0.00031 -0.00024	0.00005 -0.00002

565	-0.019400 0.001419	0.079303 -0.006535	-0.247919 -0.239070	-0.00007 0.00008	-0.00002 0.00003	0.00001 0.00000
566	-0.020807 0.000959	0.073758 -0.004575	-0.227478 -0.214959	-0.00001 0.00013	0.00009 0.00015	-0.00001 0.00001
567	0.002867 0.001699	0.083856 -0.003987	-0.209771 -0.206987	-0.00014 0.00005	0.00003 0.00003	0.00000 -0.00002
568	-0.012030 0.001002	0.097714 -0.008598	-0.351075 -0.353097	-0.00025 -0.00001	0.00000 0.00000	0.00003 0.00001
569	-0.011566 0.001473	0.098471 -0.008376	-0.350433 -0.353290	-0.00026 -0.00001	0.00000 0.00000	0.00002 0.00001
570	-0.011411 0.001624	0.098679 -0.008318	-0.350191 -0.353321	-0.00026 -0.00002	0.00000 0.00000	0.00002 0.00001
571	-0.011288 0.001743	0.098873 -0.008269	-0.349976 -0.353387	-0.00026 -0.00002	0.00000 0.00000	0.00002 0.00000
572	-0.004956 -0.010176	0.096561 -0.003394	-0.194099 -0.232931	0.00005 0.00021	0.00007 -0.00006	-0.00015 -0.00019
573	-0.003608 -0.009204	0.086703 -0.015965	-0.203352 -0.214018	-0.00008 0.00009	-0.00003 -0.00005	-0.00004 -0.00001
574	0.004365 0.001284	0.095861 -0.004025	-0.195723 -0.208369	-0.00016 0.00001	0.00001 0.00000	0.00000 -0.00002
575	0.006434 0.003664	0.085592 -0.016637	-0.224878 -0.238472	-0.00012 -0.00007	0.00025 0.00028	-0.00011 -0.00013
576	0.002535 -0.000946	0.097022 -0.005505	-0.198104 -0.211175	-0.00016 0.00001	0.00001 0.00001	0.00003 0.00001
577	0.003081 -0.000311	0.099826 -0.004555	-0.197182 -0.209891	-0.00016 0.00001	0.00000 0.00000	0.00003 0.00001
578	0.003572 0.000241	0.100900 -0.004390	-0.196809 -0.209539	-0.00016 0.00002	-0.00004 -0.00003	0.00002 0.00000
579	0.003605 0.000299	0.101949 -0.004544	-0.195715 -0.208526	-0.00017 0.00002	-0.00005 -0.00006	0.00002 0.00000
580	-0.000267 -0.001770	0.097280 -0.005208	-0.214283 -0.211604	0.00000 0.00000	0.00001 0.00001	0.00003 0.00001
581	0.001090 -0.000257	0.101929 -0.004700	-0.211412 -0.208591	0.00000 0.00000	-0.00005 -0.00006	0.00004 0.00002
582	-0.002972 -0.002251	0.097507 -0.004926	-0.229915 -0.211592	-0.00013 0.00005	0.00002 0.00002	0.00003 0.00000
583	-0.002594 -0.001939	0.099463 -0.005162	-0.228555 -0.210377	-0.00013 0.00006	0.00000 0.00000	0.00002 0.00000
584	-0.002220 -0.001650	0.102214 -0.004396	-0.227343 -0.208794	-0.00013 0.00005	-0.00004 -0.00004	0.00004 0.00002
585	-0.016952 -0.002369	0.112350 0.000795	-0.338192 -0.338349	-0.00012 0.00010	0.00000 0.00000	-0.00001 -0.00002
586	-0.016895 -0.002312	0.112292 0.000599	-0.338058 -0.338439	-0.00012 0.00010	0.00000 0.00000	-0.00001 -0.00002
587	-0.016072 -0.001499	0.112303 -0.001224	-0.335758 -0.338647	-0.00014 0.00007	0.00000 0.00000	0.00000 -0.00002
588	-0.014433 0.000721	0.122263 -0.006585	-0.358583 -0.360758	-0.00030 -0.00003	0.00000 0.00000	0.00003 0.00001
589	-0.014080 0.001076	0.123136 -0.006397	-0.357699 -0.360533	-0.00031 -0.00003	0.00000 0.00000	0.00003 0.00001
590	-0.013872 0.001285	0.123666 -0.006273	-0.357199 -0.360418	-0.00031 -0.00003	0.00000 0.00000	0.00003 0.00001
591	-0.013839 0.001317	0.123752 -0.006251	-0.357116 -0.360391	-0.00031 -0.00003	0.00000 0.00000	0.00003 0.00001
592	-0.019098 -0.009099	0.154522 -0.014960	-0.480481 -0.387555	0.00064 0.00027	-0.00007 -0.00005	-0.00012 0.00007
593	-0.019591 -0.009757	0.161175 -0.008107	-0.477391 -0.377057	0.00066 0.00027	-0.00004 -0.00015	-0.00013 -0.00020

594	-0.020126 -0.010362	0.162284 -0.006776	-0.473047 -0.372243	0.00064 0.00025	-0.00025 -0.00018	0.00042 0.00044
595	-0.020286 -0.010448	0.164919 -0.004391	-0.464000 -0.370524	0.00064 0.00029	0.00009 0.00008	-0.00037 -0.00021
596	-0.024977 -0.014497	0.154773 -0.014004	-0.356827 -0.336666	-0.00029 -0.00004	0.00013 0.00010	0.00004 0.00002
597	-0.024773 -0.014371	0.160704 -0.008464	-0.369907 -0.341369	0.00016 0.00007	-0.00010 -0.00013	0.00003 0.00003
598	-0.024596 -0.014174	0.161392 -0.007804	-0.366420 -0.337141	0.00016 0.00007	-0.00017 -0.00020	0.00003 0.00003
599	-0.024138 -0.013589	0.164108 -0.005906	-0.320573 -0.293860	-0.00024 0.00001	-0.00022 -0.00018	0.00001 0.00000
600	0.002865 -0.000661	0.104716 -0.004899	-0.197649 -0.210471	-0.00017 0.00001	0.00001 -0.00002	0.00002 0.00000
601	-0.016986 -0.000069	0.144692 -0.005994	-0.365611 -0.367854	-0.00020 0.00002	0.00000 0.00000	0.00003 0.00000
602	-0.016565 0.000351	0.145534 -0.005941	-0.364980 -0.367814	-0.00020 0.00002	0.00000 0.00000	0.00003 0.00000
603	-0.016411 0.000504	0.145873 -0.005895	-0.364771 -0.367794	-0.00020 0.00002	0.00000 0.00000	0.00004 0.00001
604	-0.016276 0.000639	0.146232 -0.005845	-0.364509 -0.367730	-0.00020 0.00002	0.00000 0.00000	0.00004 0.00001
605	-0.004313 -0.009960	0.117886 0.000159	-0.231023 -0.238091	-0.00015 -0.00001	0.00002 0.00001	0.00006 -0.00004
606	-0.006202 -0.011397	0.112561 -0.006673	-0.196916 -0.235618	0.00001 0.00018	-0.00015 -0.00002	-0.00006 -0.00010
607	0.001682 -0.002276	0.119894 0.001773	-0.225430 -0.233493	0.00002 0.00009	-0.00020 -0.00018	-0.00007 -0.00006
608	0.001558 -0.002339	0.113262 -0.006031	-0.199814 -0.213100	-0.00016 0.00001	-0.00005 -0.00004	0.00002 0.00000
609	-0.002210 -0.003750	0.125019 -0.004498	-0.218280 -0.215698	-0.00018 -0.00001	-0.00004 -0.00004	0.00002 0.00000
610	0.002331 -0.006258	0.108184 0.003222	-0.324837 -0.335295	-0.00033 -0.00020	0.00012 0.00012	0.00009 -0.00008
611	0.002353 -0.006238	0.117745 0.000104	-0.294569 -0.302246	-0.00041 -0.00027	-0.00013 -0.00013	-0.00001 0.00002
612	0.002379 -0.006216	0.125849 -0.002745	-0.234171 -0.241435	-0.00013 0.00002	0.00007 0.00004	0.00008 -0.00006
613	0.002444 -0.006181	0.136453 -0.006877	-0.212853 -0.223789	-0.00042 -0.00024	0.00001 0.00000	-0.00004 0.00004
614	0.002452 -0.006184	0.143195 -0.009179	-0.305972 -0.308533	-0.00046 -0.00032	0.00018 0.00018	0.00005 -0.00003
615	0.002460 -0.006184	0.152641 -0.012487	-0.338579 -0.342916	-0.00026 -0.00012	-0.00002 -0.00002	0.00001 0.00000
616	0.002466 -0.006182	0.161478 -0.015568	-0.348202 -0.354569	-0.00023 -0.00008	-0.00002 -0.00003	0.00001 0.00000
617	0.002473 -0.006181	0.169725 -0.018449	-0.350622 -0.358991	-0.00020 -0.00004	0.00001 0.00000	0.00003 -0.00001
618	0.002477 -0.006174	0.178571 -0.021482	-0.349206 -0.360983	-0.00018 -0.00002	-0.00001 -0.00001	0.00002 -0.00001
619	0.002476 -0.006161	0.187394 -0.024459	-0.335753 -0.353791	-0.00034 -0.00017	-0.00013 -0.00013	0.00001 0.00000
620	0.002479 -0.006159	0.194238 -0.026766	-0.306681 -0.331345	-0.00026 -0.00004	-0.00010 -0.00010	-0.00001 0.00002
621	-0.000845 -0.004938	0.129046 -0.004042	-0.200332 -0.213656	-0.00021 -0.00003	-0.00003 -0.00003	0.00002 -0.00001
622	-0.000836 -0.004928	0.131024 -0.004922	-0.198455 -0.211590	-0.00019 -0.00002	-0.00002 -0.00002	0.00002 -0.00001



623	-0.000838 -0.004929	0.133178 -0.005640	-0.196416 -0.209627	-0.00019 -0.00001	0.00001 0.00001	0.00002 -0.00001
624	-0.002754 -0.004313	0.128834 -0.004236	-0.218173 -0.215599	-0.00016 0.00001	-0.00003 -0.00004	0.00003 0.00001
625	-0.002944 -0.004514	0.133718 -0.005090	-0.212848 -0.210022	-0.00016 0.00001	0.00003 0.00004	0.00002 -0.00001
626	-0.003830 -0.004498	0.126639 -0.001863	-0.235033 -0.227134	-0.00028 -0.00023	-0.00007 -0.00009	0.00000 0.00000
627	-0.003772 -0.004438	0.128818 -0.004254	-0.224179 -0.215954	-0.00019 -0.00001	-0.00004 -0.00004	0.00002 0.00000
628	-0.004646 -0.003673	0.128825 -0.004245	-0.235108 -0.216704	-0.00034 -0.00020	-0.00009 -0.00011	0.00002 -0.00001
629	-0.004650 -0.003679	0.130994 -0.004946	-0.231192 -0.212473	-0.00029 -0.00013	-0.00012 -0.00014	0.00002 -0.00001
630	-0.004651 -0.003679	0.133167 -0.005652	-0.231460 -0.212765	-0.00029 -0.00013	0.00013 0.00016	0.00002 -0.00001
631	-0.004802 -0.003850	0.136583 -0.006740	-0.283153 -0.270154	0.00003 0.00012	0.00042 0.00046	0.00002 -0.00001
632	-0.005870 -0.003566	0.108184 0.003230	-0.379698 -0.380375	-0.00013 -0.00002	0.00046 0.00046	0.00001 0.00000
633	-0.005898 -0.003595	0.117478 -0.000086	-0.411981 -0.409997	-0.00003 0.00009	-0.00018 -0.00018	0.00002 -0.00001
634	-0.005656 -0.003332	0.125528 -0.003029	-0.288595 -0.273019	-0.00040 -0.00028	-0.00019 -0.00025	0.00002 -0.00001
635	-0.005658 -0.003333	0.136501 -0.006815	-0.285320 -0.266786	-0.00018 -0.00005	0.00035 0.00042	0.00002 -0.00001
636	-0.005661 -0.003340	0.143196 -0.009176	-0.396832 -0.392843	-0.00010 0.00005	0.00046 0.00047	0.00002 0.00000
637	-0.005663 -0.003343	0.152638 -0.012483	-0.450973 -0.449903	-0.00017 -0.00002	-0.00008 -0.00008	0.00002 -0.00001
638	-0.005666 -0.003344	0.161474 -0.015561	-0.443114 -0.441741	-0.00017 -0.00001	-0.00005 -0.00005	0.00002 -0.00001
639	-0.005668 -0.003348	0.169701 -0.018387	-0.441509 -0.440230	-0.00036 -0.00019	-0.00020 -0.00020	0.00002 -0.00001
640	-0.005671 -0.003356	0.178535 -0.021412	-0.443298 -0.442753	-0.00054 -0.00037	0.00000 0.00000	0.00002 -0.00001
641	-0.005676 -0.003363	0.187388 -0.024450	-0.401598 -0.406196	-0.00024 -0.00005	-0.00015 -0.00013	0.00001 -0.00001
642	-0.005674 -0.003361	0.190581 -0.025486	-0.397716 -0.405918	-0.00018 0.00006	-0.00014 -0.00014	0.00001 -0.00002
643	-0.005818 -0.003514	0.193562 -0.026759	-0.340270 -0.345663	-0.00006 0.00013	-0.00020 -0.00021	0.00002 -0.00001
644	-0.017777 0.000720	0.108184 0.003248	-0.381142 -0.372533	0.00009 0.00019	0.00023 0.00024	-0.00003 0.00005
645	-0.017766 0.000746	0.117473 -0.000078	-0.406212 -0.400709	-0.00007 0.00004	-0.00005 -0.00004	0.00003 -0.00003
646	-0.017751 0.000784	0.125506 -0.003054	-0.403774 -0.400659	-0.00008 0.00003	0.00007 0.00009	0.00001 0.00000
647	-0.017754 0.000814	0.134154 -0.005994	-0.343116 -0.343328	-0.00014 -0.00003	-0.00180 -0.00179	0.00002 -0.00001
648	-0.017754 0.000815	0.134364 -0.006071	-0.342843 -0.343273	-0.00014 -0.00003	0.00114 0.00130	0.00002 0.00000
649	-0.017752 0.000825	0.136489 -0.006814	-0.344959 -0.347656	-0.00009 0.00001	0.00042 0.00043	0.00004 0.00000
650	-0.017751 0.000847	0.143195 -0.009157	-0.405336 -0.407316	-0.00012 -0.00004	0.00019 0.00020	0.00001 -0.00001
651	-0.017740 0.000862	0.152033 -0.012244	-0.372098 -0.374349	0.00003 0.00012	-0.00194 -0.00194	0.00002 0.00000
652	-0.017738	0.152626	-0.372230	0.00005	0.00005	0.00002

	0.000863	-0.012471	-0.375052	0.00013	0.00006	-0.00001
653	-0.017738 0.000864	0.152988 -0.012606	-0.372049 -0.375262	0.00005 0.00013	-0.00044 -0.00032	0.00002 -0.00001
654	-0.017737 0.000864	0.153043 -0.012617	-0.372217 -0.375481	0.00005 0.00013	0.00155 0.00153	0.00002 0.00000
655	-0.017739 0.000840	0.161469 -0.015556	-0.394217 -0.392299	-0.00002 0.00013	-0.00009 -0.00008	0.00002 -0.00001
656	-0.017743 0.000822	0.169697 -0.018386	-0.398213 -0.392634	0.00010 0.00029	-0.00020 -0.00020	0.00002 -0.00001
657	-0.017749 0.000808	0.178540 -0.021409	-0.398507 -0.387533	0.00031 0.00051	0.00001 0.00000	0.00001 -0.00001
658	-0.017751 0.000801	0.187412 -0.024421	-0.366540 -0.346256	0.00006 0.00028	-0.00014 -0.00010	0.00005 -0.00002
659	-0.017734 0.000885	0.194038 -0.025545	-0.325289 -0.298419	-0.00007 0.00019	0.00013 0.00017	0.00002 -0.00001
660	-0.022694 0.002478	0.153833 -0.012680	-0.297055 -0.295417	0.00000 0.00010	-0.00040 -0.00037	0.00001 0.00000
661	-0.024563 0.003115	0.144471 -0.009494	-0.319717 -0.318562	0.00019 0.00029	0.00001 0.00001	0.00002 -0.00001
662	-0.026325 0.003702	0.135976 -0.007034	-0.283156 -0.277493	0.00019 0.00029	0.00028 0.00031	0.00002 -0.00001
663	-0.029663 0.004796	0.155219 -0.013145	-0.255895 -0.248672	-0.00001 0.00010	-0.00023 -0.00020	0.00005 -0.00004
664	-0.031502 0.005470	0.145857 -0.009958	-0.256374 -0.247277	0.00004 0.00015	0.00001 0.00003	0.00002 0.00000
665	-0.031496 0.007496	0.136123 -0.007864	-0.232392 -0.219524	0.00008 0.00018	0.00012 0.00016	-0.00001 0.00001
666	-0.003697 -0.008222	0.163043 0.000011	-0.200879 -0.214167	-0.00020 -0.00003	0.00000 0.00000	0.00001 -0.00002
667	-0.003688 -0.008190	0.165018 -0.001415	-0.199416 -0.212590	-0.00021 -0.00003	0.00000 0.00000	0.00001 -0.00002
668	-0.003632 -0.008114	0.166019 -0.003354	-0.197757 -0.210870	-0.00019 -0.00002	-0.00004 -0.00004	0.00001 -0.00002
669	-0.004358 -0.006068	0.163073 0.000048	-0.218485 -0.215888	0.00000 0.00000	0.00002 0.00002	0.00001 -0.00002
670	-0.005122 -0.006792	0.166116 -0.003245	-0.215096 -0.212298	0.00000 0.00000	-0.00006 -0.00006	0.00001 -0.00002
671	-0.006534 -0.005503	0.163091 0.000080	-0.235653 -0.217161	-0.00017 0.00000	0.00002 0.00002	0.00002 0.00000
672	-0.006272 -0.005228	0.165434 -0.000659	-0.233961 -0.215374	-0.00016 0.00002	0.00000 0.00000	0.00001 -0.00002
673	-0.005982 -0.004922	0.166422 -0.002921	-0.232432 -0.213701	-0.00016 0.00001	-0.00002 -0.00002	0.00001 -0.00002
674	-0.004867 -0.015214	0.189035 0.030114	-0.329978 -0.340614	-0.00038 -0.00030	0.00013 0.00013	0.00008 -0.00010
675	-0.004870 -0.015215	0.192620 0.018451	-0.303189 -0.310995	-0.00051 -0.00043	-0.00013 -0.00014	-0.00002 0.00001
676	-0.004870 -0.015212	0.195723 0.008271	-0.240619 -0.248518	-0.00032 -0.00024	-0.00016 -0.00011	0.00005 -0.00007
677	-0.004864 -0.015211	0.199879 -0.005256	-0.219427 -0.230672	-0.00030 -0.00028	0.00007 0.00004	-0.00003 0.00002
678	-0.004865 -0.015210	0.202416 -0.013528	-0.313191 -0.315934	-0.00039 -0.00036	0.00024 0.00024	0.00003 -0.00005
679	-0.004873 -0.015215	0.205992 -0.025187	-0.347622 -0.352106	-0.00029 -0.00026	-0.00003 -0.00003	0.00000 -0.00001
680	-0.004879 -0.015219	0.209332 -0.036094	-0.356450 -0.362969	-0.00024 -0.00020	-0.00002 -0.00002	0.00000 -0.00002
681	-0.004884 -0.015222	0.212439 -0.046250	-0.358679 -0.367198	-0.00018 -0.00013	0.00000 0.00000	0.00001 -0.00003

682	-0.004889 -0.015227	0.215761 -0.057165	-0.357465 -0.369398	-0.00013 -0.00008	-0.00001 0.00000	0.00001 -0.00002
683	-0.004895 -0.015231	0.219079 -0.068082	-0.342903 -0.361121	-0.00022 -0.00016	-0.00016 -0.00015	0.00000 -0.00001
684	-0.004896 -0.015232	0.221642 -0.076484	-0.310686 -0.335530	-0.00015 -0.00003	-0.00010 -0.00009	-0.00002 0.00001
685	-0.006139 -0.011063	0.196987 0.004124	-0.201771 -0.214919	-0.00009 0.00004	-0.00014 -0.00011	0.00001 -0.00002
686	-0.006139 -0.011063	0.197798 0.001498	-0.199993 -0.213148	-0.00018 -0.00002	-0.00001 -0.00001	0.00001 -0.00003
687	-0.006140 -0.011063	0.198611 -0.001129	-0.198920 -0.211914	-0.00010 0.00004	0.00009 0.00007	0.00001 -0.00003
688	-0.006851 -0.008745	0.196985 0.004124	-0.219025 -0.216423	-0.00021 -0.00002	-0.00004 -0.00004	0.00000 -0.00004
689	-0.006858 -0.008752	0.198611 -0.001127	-0.216056 -0.213256	-0.00020 -0.00002	0.00001 0.00001	0.00001 -0.00001
690	-0.007568 -0.006431	0.196983 0.004122	-0.236620 -0.218222	-0.00022 -0.00006	-0.00018 -0.00021	0.00000 -0.00004
691	-0.007570 -0.006434	0.197799 0.001499	-0.234754 -0.216187	-0.00019 -0.00002	-0.00002 -0.00002	0.00001 -0.00003
692	-0.007570 -0.006434	0.198611 -0.001127	-0.233768 -0.215141	-0.00023 -0.00006	0.00017 0.00019	0.00001 -0.00002
693	-0.007933 -0.005171	0.189029 0.030112	-0.390258 -0.390876	-0.00011 -0.00001	0.00055 0.00055	0.00000 -0.00002
694	-0.007940 -0.005178	0.192610 0.018448	-0.427386 -0.425315	-0.00003 0.00007	-0.00025 -0.00027	0.00001 -0.00003
695	-0.007944 -0.005183	0.195713 0.008280	-0.301907 -0.286097	-0.00007 0.00004	-0.00011 -0.00014	0.00001 -0.00002
696	-0.007946 -0.005187	0.199875 -0.005256	-0.296718 -0.278212	-0.00013 -0.00002	0.00002 0.00005	0.00001 -0.00003
697	-0.007941 -0.005182	0.202411 -0.013529	-0.410952 -0.406898	-0.00012 -0.00001	0.00055 0.00057	0.00001 -0.00002
698	-0.007942 -0.005185	0.205988 -0.025186	-0.467117 -0.466056	-0.00017 -0.00006	-0.00010 -0.00010	0.00001 -0.00003
699	-0.007944 -0.005188	0.209329 -0.036092	-0.458288 -0.456915	-0.00017 -0.00006	-0.00003 -0.00003	0.00001 -0.00002
700	-0.007948 -0.005191	0.212435 -0.046249	-0.456670 -0.455402	-0.00038 -0.00026	-0.00017 -0.00017	0.00001 -0.00002
701	-0.007951 -0.005193	0.215757 -0.057163	-0.459169 -0.458656	-0.00059 -0.00047	0.00003 0.00003	0.00001 -0.00002
702	-0.007953 -0.005195	0.219074 -0.068082	-0.416163 -0.420720	-0.00048 -0.00036	-0.00031 -0.00031	0.00001 -0.00002
703	-0.007953 -0.005196	0.221637 -0.076487	-0.349070 -0.354374	-0.00027 -0.00014	-0.00009 -0.00009	0.00001 -0.00003
704	-0.012495 0.009765	0.189023 0.030110	-0.388333 -0.379610	0.00007 0.00019	0.00034 0.00034	-0.00004 0.00003
705	-0.012504 0.009757	0.192605 0.018448	-0.417393 -0.411764	0.00001 0.00012	-0.00008 -0.00007	0.00003 -0.00004
706	-0.012507 0.009752	0.195716 0.008284	-0.415650 -0.412387	-0.00009 0.00001	0.00016 0.00016	-0.00002 0.00000
707	-0.012511 0.009745	0.199871 -0.005256	-0.356994 -0.359481	-0.00001 0.00009	-0.00031 -0.00030	0.00004 -0.00005
708	-0.012512 0.009742	0.202410 -0.013526	-0.414497 -0.416355	0.00007 0.00019	0.00020 0.00020	-0.00001 -0.00001
709	-0.012518 0.009734	0.205983 -0.025185	-0.384273 -0.386918	0.00014 0.00027	-0.00007 -0.00007	0.00001 -0.00002
710	-0.012522 0.009727	0.209323 -0.036093	-0.405212 -0.403156	0.00016 0.00028	0.00005 0.00005	0.00001 -0.00003

711	-0.012525 0.009722	0.212417 -0.046258	-0.409133 -0.403393	0.00033 0.00049	-0.00019 -0.00020	0.00001 -0.00002
712	-0.012527 0.009719	0.215731 -0.057181	-0.409438 -0.398299	0.00062 0.00079	0.00002 0.00001	0.00001 -0.00002
713	-0.012530 0.009716	0.219057 -0.068094	-0.376632 -0.356214	0.00063 0.00081	-0.00010 -0.00012	0.00002 -0.00003
714	-0.012530 0.009716	0.221626 -0.076494	-0.331126 -0.304142	0.00039 0.00057	-0.00017 -0.00018	0.00002 -0.00004
715	-0.007154 -0.011989	0.204140 0.004614	-0.201785 -0.214923	-0.00020 -0.00003	0.00001 0.00000	0.00001 -0.00002
716	-0.006694 -0.011644	0.205111 0.002161	-0.200099 -0.213248	-0.00019 -0.00002	-0.00001 -0.00001	0.00001 -0.00003
717	-0.006275 -0.011325	0.205778 -0.000653	-0.198920 -0.211904	-0.00020 -0.00003	-0.00003 -0.00003	0.00001 -0.00003
718	-0.007824 -0.009738	0.204432 0.004829	-0.219111 -0.216506	-0.00019 -0.00002	-0.00001 -0.00001	0.00001 -0.00002
719	-0.006980 -0.008917	0.206069 -0.000426	-0.216158 -0.213357	-0.00019 -0.00002	-0.00002 -0.00002	0.00000 -0.00003
720	-0.008688 -0.007675	0.204582 0.004968	-0.236608 -0.218220	-0.00018 0.00000	0.00001 0.00001	-0.00002 -0.00005
721	-0.008108 -0.007012	0.205311 0.002314	-0.234865 -0.216300	-0.00018 -0.00001	-0.00001 -0.00001	0.00001 -0.00002
722	-0.007499 -0.006330	0.206249 -0.000260	-0.233752 -0.215135	-0.00018 0.00000	-0.00004 -0.00004	0.00003 0.00000

SPOSTAMENTI NODI

CASO DI CARICO : 6 SLU con SISMAX PRINC COMBINAZIONE

N. 6 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.00
2	Peso_proprio_Fondaz	+	1.00
3	Permanente	+	1.00
4	Variabile	+	0.30
7	Variabile_Scale	+	0.60
11	Spinta_terre	+	1.00

N. 2 CASI DI CARICO

4	SISMAX SLU	1.00
5	SISMAY SLU	0.30

1)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.001	+0.30*c005.001		
2)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.001	+0.30*c005.002		
3)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.001	+0.30*c005.003		
4)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.001	+0.30*c005.004		
5)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.002	+0.30*c005.001		
6)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.002	+0.30*c005.002		
7)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.002	+0.30*c005.003		
8)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.002	+0.30*c005.004		
9)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.003	+0.30*c005.001		
10)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.003	+0.30*c005.002		
11)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.003	+0.30*c005.003		
12)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.003	+0.30*c005.004		
13)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.004	+0.30*c005.001		
14)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.004	+0.30*c005.002		
15)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.004	+0.30*c005.003		
16)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.004	+0.30*c005.004		

Unità di misura: SX,SY,SZ [cm]; RX,RY,RZ [rad]

Coefficiente moltiplicativo: 1.000000

Nodo	SX	SY	SZ	RX	RY	RZ	
457	0.075020	0.036842	-0.161406	-0.00011	0.00032	-0.00007	
	0.073781	0.042416	-0.161744	-0.00014	0.00031	-0.00008	
	0.071346	-0.020837	-0.156672	0.00015	0.00031	-0.00003	
	0.070107	-0.015264	-0.157010	0.00013	0.00031	-0.00004	
	0.076801	0.029883	-0.161017	-0.00008	0.00032	-0.00006	
	0.075562	0.035457	-0.161355	-0.00010	0.00032	-0.00007	
	0.073126	-0.027797	-0.156283	0.00019	0.00031	-0.00002	
	0.071887	-0.022223	-0.156621	0.00016	0.00031	-0.00003	
	-0.069250	0.042393	-0.103215	-0.00019	-0.00027	0.00002	
	-0.070489	0.047966	-0.103553	-0.00022	-0.00028	0.00001	
	-0.072924	-0.015287	-0.098481	0.00007	-0.00028	0.00006	
	-0.074163	-0.009713	-0.098819	0.00004	-0.00028	0.00005	
	-0.067469	0.035433	-0.102827	-0.00016	-0.00027	0.00003	
	-0.068708	0.041007	-0.103165	-0.00019	-0.00027	0.00002	
	-0.071144	-0.022246	-0.098092	0.00010	-0.00028	0.00007	
	-0.072383	-0.016673	-0.098431	0.00008	-0.00028	0.00006	
	458	0.029136	0.017274	-0.175129	-0.00024	0.00000	-0.00007
		0.031145	0.016724	-0.174373	-0.00022	0.00000	-0.00008
0.035100		-0.008040	-0.179167	0.00010	0.00000	-0.00009	
0.037109		-0.008590	-0.178411	0.00013	0.00000	-0.00010	
0.026199		0.017856	-0.176235	-0.00028	0.00000	-0.00006	
0.028208		0.017306	-0.175479	-0.00025	0.00000	-0.00007	
0.032163		-0.007459	-0.180273	0.00007	0.00000	-0.00008	
0.034172		-0.008009	-0.179517	0.00009	0.00000	-0.00009	
-0.040470		0.004870	-0.211102	-0.00032	0.00000	-0.00007	
-0.038461		0.004320	-0.210346	-0.00029	0.00000	-0.00007	
-0.034506		-0.020444	-0.215140	0.00003	0.00000	-0.00009	
-0.032497		-0.020994	-0.214384	0.00006	0.00000	-0.00009	
-0.043407		0.005452	-0.212209	-0.00035	0.00000	-0.00006	
-0.041398		0.004902	-0.211452	-0.00033	0.00000	-0.00006	
-0.037444		-0.019863	-0.216246	0.00000	0.00000	-0.00008	
-0.035435		-0.020413	-0.215490	0.00002	0.00000	-0.00008	
459		0.029426	0.014807	-0.186426	-0.00025	0.00000	-0.00009
		0.031435	0.014054	-0.186493	-0.00023	0.00000	-0.00010
	0.035386	-0.010395	-0.189906	0.00010	0.00000	-0.00007	
	0.037395	-0.011148	-0.189973	0.00012	0.00000	-0.00008	
	0.026487	0.015708	-0.186465	-0.00029	0.00000	-0.00008	
	0.028496	0.014955	-0.186532	-0.00026	0.00000	-0.00009	
	0.032447	-0.009494	-0.189945	0.00007	0.00000	-0.00006	
	0.034456	-0.010247	-0.190013	0.00009	0.00000	-0.00007	
	-0.040166	0.002455	-0.198445	-0.00033	0.00000	-0.00010	
	-0.038157	0.001702	-0.198512	-0.00030	0.00000	-0.00010	
	-0.034206	-0.022747	-0.201925	0.00003	0.00000	-0.00008	
	-0.032197	-0.023500	-0.201992	0.00005	0.00000	-0.00008	
	-0.043105	0.003356	-0.198485	-0.00036	0.00000	-0.00009	
	-0.041096	0.002603	-0.198552	-0.00034	0.00000	-0.00009	
	-0.037145	-0.021847	-0.201965	-0.00001	0.00000	-0.00007	
	-0.035136	-0.022599	-0.202032	0.00002	0.00000	-0.00007	
	460	0.029672	0.013916	-0.190150	-0.00026	0.00000	-0.00009
		0.031692	0.013101	-0.190499	-0.00023	0.00000	-0.00010
0.035663		-0.011186	-0.193813	0.00010	0.00000	-0.00007	
0.037683		-0.012002	-0.194161	0.00012	0.00000	-0.00008	
0.026719		0.014916	-0.189825	-0.00029	0.00000	-0.00008	
0.028739		0.014101	-0.190174	-0.00027	0.00000	-0.00009	
0.032709		-0.010187	-0.193487	0.00006	0.00000	-0.00006	
0.034729		-0.011002	-0.193836	0.00009	0.00000	-0.00007	
-0.040218		0.001561	-0.193995	-0.00033	0.00000	-0.00010	
-0.038198		0.000746	-0.194343	-0.00031	0.00000	-0.00010	
-0.034228		-0.023541	-0.197657	0.00002	0.00000	-0.00008	
-0.032208		-0.024357	-0.198006	0.00005	0.00000	-0.00008	
-0.043172		0.002561	-0.193669	-0.00037	0.00000	-0.00009	
-0.041152		0.001746	-0.194018	-0.00034	0.00000	-0.00010	
-0.037181		-0.022541	-0.197332	-0.00001	0.00000	-0.00007	
-0.035161		-0.023357	-0.197680	0.00001	0.00000	-0.00007	
461		0.029928	0.013008	-0.193690	-0.00026	0.00000	-0.00009
		0.031958	0.012132	-0.194316	-0.00024	0.00000	-0.00010
	0.035947	-0.011972	-0.197699	0.00009	0.00000	-0.00007	
	0.037977	-0.012849	-0.198326	0.00012	0.00000	-0.00008	
	0.026962	0.014106	-0.193003	-0.00030	0.00000	-0.00008	
	0.028992	0.013229	-0.193630	-0.00027	0.00000	-0.00009	
	0.032980	-0.010874	-0.197013	0.00006	0.00000	-0.00006	
	0.035010	-0.011751	-0.197640	0.00008	0.00000	-0.00007	
	-0.040232	0.000649	-0.189414	-0.00034	0.00000	-0.00010	
	-0.038202	-0.000227	-0.190041	-0.00031	0.00000	-0.00010	
	-0.034214	-0.024331	-0.193424	0.00002	0.00000	-0.00007	
	-0.032184	-0.025208	-0.194051	0.00004	0.00000	-0.00008	
	-0.043199	0.001747	-0.188728	-0.00037	0.00000	-0.00009	
	-0.041169	0.000870	-0.189355	-0.00035	0.00000	-0.00010	
	-0.037181	-0.023234	-0.192737	-0.00002	0.00000	-0.00007	
	-0.035151	-0.024110	-0.193364	0.00001	0.00000	-0.00007	
	462	0.079340	0.045716	-0.107197	-0.00034	-0.00006	-0.00031

	0.074472	0.053153	-0.104724	-0.00032	0.00002	-0.00027
	0.095083	-0.028835	-0.133631	-0.00049	-0.00058	-0.00066
	0.090215	-0.021398	-0.131158	-0.00047	-0.00050	-0.00062
	0.085830	0.036466	-0.110217	-0.00037	-0.00015	-0.00036
	0.080962	0.043902	-0.107745	-0.00035	-0.00007	-0.00032
	0.101572	-0.038085	-0.136652	-0.00052	-0.00067	-0.00071
	0.096704	-0.030648	-0.134179	-0.00050	-0.00059	-0.00067
	-0.097683	0.055594	-0.114130	0.00050	0.00037	0.00057
	-0.102551	0.063031	-0.111657	0.00052	0.00044	0.00061
	-0.081940	-0.018957	-0.140564	0.00035	-0.00015	0.00023
	-0.086808	-0.011520	-0.138091	0.00037	-0.00008	0.00027
	-0.091193	0.046344	-0.117151	0.00047	0.00028	0.00052
	-0.096062	0.053781	-0.114678	0.00049	0.00035	0.00056
	-0.075451	-0.028207	-0.143585	0.00032	-0.00024	0.00018
	-0.080319	-0.020770	-0.141112	0.00034	-0.00017	0.00022
463	0.078888	0.045513	-0.106598	-0.00025	-0.00004	-0.00002
	0.074099	0.052781	-0.104807	-0.00026	0.00003	-0.00003
	0.094285	-0.028458	-0.128331	-0.00011	-0.00048	0.00005
	0.089495	-0.021189	-0.126540	-0.00012	-0.00041	0.00003
	0.085279	0.036479	-0.108769	-0.00024	-0.00011	0.00001
	0.080489	0.043747	-0.106978	-0.00025	-0.00005	-0.00001
	0.100675	-0.037492	-0.130501	-0.00009	-0.00055	0.00007
	0.095885	-0.030223	-0.128711	-0.00010	-0.00049	0.00005
	-0.097032	0.055013	-0.117457	0.00006	0.00029	-0.00005
	-0.101822	0.062282	-0.115667	0.00005	0.00035	-0.00006
	-0.081636	-0.018958	-0.139190	0.00020	-0.00015	0.00001
	-0.086426	-0.011689	-0.137399	0.00019	-0.00009	0.00000
	-0.090642	0.045979	-0.119628	0.00007	0.00021	-0.00003
	-0.095431	0.053248	-0.117837	0.00006	0.00027	-0.00004
	-0.075245	-0.027991	-0.141361	0.00021	-0.00023	0.00004
	-0.080035	-0.020723	-0.139570	0.00020	-0.00017	0.00002
464	0.078245	0.038934	-0.159749	-0.00020	0.00051	-0.00007
	0.073626	0.044188	-0.155673	-0.00022	0.00046	-0.00009
	0.092897	-0.030168	-0.182537	0.00004	0.00075	-0.00002
	0.088278	-0.024914	-0.178461	0.00002	0.00070	-0.00004
	0.084419	0.032496	-0.164909	-0.00018	0.00057	-0.00006
	0.079800	0.037750	-0.160834	-0.00020	0.00052	-0.00007
	0.099071	-0.036606	-0.187697	0.00006	0.00081	-0.00001
	0.094452	-0.031352	-0.183622	0.00004	0.00076	-0.00002
	-0.095337	0.049555	-0.063030	-0.00017	-0.00065	-0.00006
	-0.099956	0.054809	-0.058954	-0.00018	-0.00070	-0.00007
	-0.080685	-0.019547	-0.085817	0.00007	-0.00041	-0.00001
	-0.085304	-0.014293	-0.081742	0.00006	-0.00046	-0.00002
	-0.089163	0.043117	-0.068190	-0.00015	-0.00059	-0.00004
	-0.093782	0.048371	-0.064115	-0.00016	-0.00064	-0.00005
	-0.074511	-0.025984	-0.090978	0.00009	-0.00035	0.00001
	-0.079130	-0.020730	-0.086902	0.00008	-0.00040	-0.00001
465	0.094871	0.046407	-0.149330	-0.00022	0.00032	-0.00001
	0.092281	0.053627	-0.147387	-0.00023	0.00032	-0.00003
	0.087025	-0.027284	-0.165174	-0.00010	0.00031	-0.00005
	0.084436	-0.020063	-0.163230	-0.00011	0.00030	-0.00006
	0.098422	0.037420	-0.151725	-0.00021	0.00033	0.00000
	0.095832	0.044640	-0.149782	-0.00022	0.00033	-0.00001
	0.090576	-0.036271	-0.167568	-0.00009	0.00031	-0.00003
	0.087987	-0.029051	-0.165625	-0.00010	0.00031	-0.00005
	-0.084157	0.053601	-0.089531	0.00003	-0.00031	0.00005
	-0.086746	0.060821	-0.087588	0.00002	-0.00031	0.00004
	-0.092002	-0.020090	-0.105374	0.00015	-0.00032	0.00001
	-0.094591	-0.012870	-0.103431	0.00014	-0.00033	0.00000
	-0.080606	0.044613	-0.091926	0.00004	-0.00030	0.00007
	-0.083195	0.051834	-0.089982	0.00003	-0.00030	0.00005
	-0.088451	-0.029078	-0.107769	0.00017	-0.00032	0.00003
	-0.091040	-0.021857	-0.105825	0.00016	-0.00032	0.00002
466	0.086558	0.038600	-0.195737	-0.00012	0.00035	-0.00001
	0.083996	0.043772	-0.193421	-0.00015	0.00034	-0.00004
	0.094411	-0.029872	-0.213565	0.00000	0.00046	0.00010
	0.091849	-0.024700	-0.211249	-0.00002	0.00044	0.00007
	0.090073	0.032262	-0.198701	-0.00009	0.00038	0.00003
	0.087511	0.037435	-0.196384	-0.00012	0.00036	0.00000
	0.097926	-0.036210	-0.216529	0.00003	0.00048	0.00014
	0.095364	-0.031038	-0.214213	0.00001	0.00046	0.00011
	-0.090303	0.048483	-0.060347	-0.00014	-0.00027	-0.00025
	-0.092865	0.053655	-0.058030	-0.00017	-0.00029	-0.00028
	-0.082450	-0.019989	-0.078175	-0.00002	-0.00017	-0.00014
	-0.085013	-0.014817	-0.075859	-0.00004	-0.00018	-0.00017
	-0.086788	0.042145	-0.063310	-0.00011	-0.00025	-0.00021
	-0.089350	0.047318	-0.060994	-0.00014	-0.00027	-0.00024
	-0.078935	-0.026327	-0.081139	0.00001	-0.00015	-0.00010
	-0.081498	-0.021155	-0.078822	-0.00001	-0.00016	-0.00013
467	0.091350	0.053344	-0.105698	-0.00027	0.00000	-0.00006
	0.086082	0.061157	-0.103908	-0.00029	0.00000	-0.00007
	0.107733	-0.027505	-0.127800	-0.00004	0.00000	-0.00001

	0.102464	-0.019693	-0.126010	-0.00006	0.00000	-0.00002
	0.098370	0.043636	-0.107873	-0.00025	0.00000	-0.00004
	0.093101	0.051448	-0.106083	-0.00026	0.00000	-0.00005
	0.114752	-0.037214	-0.129974	-0.00002	0.00000	0.00001
	0.109483	-0.029402	-0.128184	-0.00004	0.00000	0.00000
	-0.110968	0.058972	-0.118785	-0.00011	0.00000	-0.00003
	-0.116237	0.066784	-0.116996	-0.00013	0.00000	-0.00004
	-0.094585	-0.021878	-0.140887	0.00011	0.00000	0.00002
	-0.098534	-0.014066	-0.139097	0.00009	0.00000	0.00001
	-0.103948	0.049264	-0.120960	-0.00009	0.00000	-0.00001
	-0.109217	0.057076	-0.119170	-0.00011	0.00000	-0.00002
	-0.087566	-0.031586	-0.143061	0.00013	0.00000	0.00004
	-0.092835	-0.023774	-0.141272	0.00011	0.00000	0.00003
468	0.091570	0.046831	-0.161973	-0.00024	0.00000	-0.00010
	0.086345	0.052642	-0.157907	-0.00025	0.00000	-0.00011
	0.107779	-0.031159	-0.184462	0.00000	0.00000	-0.00006
	0.102554	-0.025348	-0.180395	-0.00001	0.00000	-0.00007
	0.098533	0.039723	-0.167114	-0.00022	0.00000	-0.00008
	0.093308	0.045534	-0.163048	-0.00024	0.00000	-0.00009
	0.114742	-0.038267	-0.189603	0.00002	0.00000	-0.00004
	0.109517	-0.032456	-0.185536	0.00001	0.00000	-0.00005
	-0.110107	0.055436	-0.063294	-0.00015	0.00000	-0.00004
	-0.115332	0.061246	-0.059228	-0.00017	0.00000	-0.00005
	-0.093898	-0.022554	-0.085783	0.00009	0.00000	0.00000
	-0.099123	-0.016744	-0.081717	0.00007	0.00000	-0.00001
	-0.103144	0.048327	-0.068435	-0.00014	0.00000	-0.00002
	-0.108369	0.054138	-0.064369	-0.00015	0.00000	-0.00004
	-0.086935	-0.029662	-0.090924	0.00011	0.00000	0.00002
	-0.092160	-0.023852	-0.086858	0.00009	0.00000	0.00000
469	0.108212	0.057975	-0.080828	-0.00029	0.00039	0.00001
	0.105415	0.068118	-0.079592	-0.00033	0.00038	0.00000
	0.099890	-0.022304	-0.097755	0.00000	0.00036	-0.00002
	0.097093	-0.012162	-0.096520	-0.00004	0.00036	-0.00003
	0.112057	0.045197	-0.082266	-0.00025	0.00040	0.00002
	0.109260	0.055339	-0.081031	-0.00029	0.00039	0.00001
	0.103735	-0.035082	-0.099193	0.00004	0.00037	-0.00001
	0.100938	-0.024940	-0.097958	0.00001	0.00037	-0.00002
	-0.099017	0.048147	-0.157819	-0.00012	-0.00034	0.00005
	-0.101814	0.058289	-0.156583	-0.00015	-0.00035	0.00005
	-0.107339	-0.032132	-0.174746	0.00017	-0.00036	0.00002
	-0.110136	-0.021990	-0.173511	0.00014	-0.00037	0.00001
	-0.095172	0.035369	-0.159257	-0.00007	-0.00033	0.00007
	-0.097969	0.045511	-0.158022	-0.00011	-0.00034	0.00006
	-0.103494	-0.044910	-0.176185	0.00022	-0.00035	0.00003
	-0.106291	-0.034768	-0.174949	0.00018	-0.00036	0.00003
470	0.107443	0.058867	-0.116081	-0.00025	0.00000	0.00001
	0.104637	0.068108	-0.114488	-0.00028	0.00000	0.00000
	0.099069	-0.022313	-0.132279	-0.00001	0.00000	-0.00002
	0.096263	-0.013072	-0.130686	-0.00004	0.00000	-0.00003
	0.111298	0.047298	-0.117974	-0.00022	0.00000	0.00003
	0.108491	0.056539	-0.116381	-0.00025	0.00000	0.00002
	0.102924	-0.033881	-0.134173	0.00002	0.00000	0.00000
	0.100118	-0.024640	-0.132579	0.00000	0.00000	-0.00001
	-0.097478	0.050996	-0.123516	-0.00009	0.00000	0.00003
	-0.100284	0.060237	-0.121923	-0.00012	0.00000	0.00002
	-0.105852	-0.030183	-0.139714	0.00015	0.00000	0.00000
	-0.108658	-0.020942	-0.138121	0.00012	0.00000	-0.00001
	-0.093623	0.039428	-0.125409	-0.00006	0.00000	0.00005
	-0.096430	0.048669	-0.123816	-0.00008	0.00000	0.00004
	-0.101997	-0.041752	-0.141608	0.00018	0.00000	0.00001
	-0.104803	-0.032511	-0.140014	0.00016	0.00000	0.00000
471	0.107323	0.058786	-0.131377	-0.00022	0.00036	-0.00001
	0.104523	0.067505	-0.129591	-0.00024	0.00035	-0.00002
	0.098964	-0.022787	-0.147665	0.00000	0.00040	-0.00005
	0.096164	-0.014068	-0.145878	-0.00002	0.00039	-0.00007
	0.111168	0.047902	-0.133527	-0.00019	0.00038	0.00001
	0.108368	0.056621	-0.131740	-0.00022	0.00037	-0.00001
	0.102810	-0.033671	-0.149814	0.00003	0.00041	-0.00004
	0.100010	-0.024952	-0.148028	0.00001	0.00040	-0.00005
	-0.096833	0.052007	-0.108231	-0.00009	-0.00042	0.00006
	-0.099633	0.060726	-0.106445	-0.00011	-0.00043	0.00005
	-0.105191	-0.029566	-0.124519	0.00014	-0.00038	0.00001
	-0.107991	-0.020847	-0.122733	0.00011	-0.00039	0.00000
	-0.092988	0.041123	-0.110381	-0.00006	-0.00040	0.00007
	-0.095788	0.049842	-0.108595	-0.00008	-0.00041	0.00006
	-0.101346	-0.040450	-0.126669	0.00016	-0.00037	0.00003
	-0.104146	-0.031731	-0.124883	0.00014	-0.00038	0.00002
472	0.107969	0.052429	-0.151051	-0.00020	0.00039	-0.00002
	0.105134	0.060345	-0.148997	-0.00022	0.00038	-0.00004
	0.099484	-0.029177	-0.167610	0.00004	0.00036	-0.00006
	0.096649	-0.021261	-0.165557	0.00002	0.00036	-0.00008
	0.111849	0.042579	-0.153560	-0.00017	0.00040	0.00000
	0.109014	0.050496	-0.151506	-0.00020	0.00039	-0.00002

	0.103364	-0.039027	-0.170119	0.00007	0.00037	-0.00005
	0.100529	-0.031110	-0.168065	0.00005	0.00036	-0.00006
	-0.097120	0.058354	-0.088049	-0.00012	-0.00039	0.00007
	-0.099954	0.066270	-0.085996	-0.00015	-0.00040	0.00005
	-0.105605	-0.023252	-0.104609	0.00012	-0.00042	0.00003
	-0.108439	-0.015336	-0.102555	0.00010	-0.00042	0.00001
	-0.093240	0.048504	-0.090558	-0.00010	-0.00038	0.00009
	-0.096074	0.056421	-0.088505	-0.00012	-0.00039	0.00007
	-0.101725	-0.033101	-0.107117	0.00015	-0.00041	0.00004
	-0.104559	-0.025185	-0.105064	0.00013	-0.00041	0.00003
473	0.108990	0.057550	-0.100158	0.00000	0.00040	-0.00007
	0.107404	0.067654	-0.101499	0.00000	0.00039	-0.00008
	0.104309	-0.022384	-0.093658	0.00000	0.00038	-0.00002
	0.102723	-0.012280	-0.094998	0.00000	0.00038	-0.00003
	0.111260	0.044813	-0.098456	0.00000	0.00040	-0.00005
	0.109674	0.054917	-0.099796	0.00000	0.00040	-0.00006
	0.106579	-0.035122	-0.091955	0.00000	0.00039	0.00000
	0.104992	-0.025018	-0.093295	0.00000	0.00038	-0.00001
	-0.104976	0.048640	-0.170787	0.00000	-0.00035	0.00002
	-0.106563	0.058744	-0.172127	0.00000	-0.00036	0.00001
	-0.109658	-0.031295	-0.164286	0.00000	-0.00037	0.00007
	-0.111244	-0.021190	-0.165626	0.00000	-0.00037	0.00006
	-0.102706	0.035902	-0.169084	0.00000	-0.00035	0.00004
	-0.104293	0.046007	-0.170424	0.00000	-0.00035	0.00003
	-0.107388	-0.044032	-0.162583	0.00000	-0.00036	0.00009
	-0.108974	-0.033928	-0.163923	0.00000	-0.00036	0.00008
474	0.110415	0.052791	-0.166950	0.00000	0.00036	-0.00007
	0.108943	0.060633	-0.167234	0.00000	0.00035	-0.00009
	0.106093	-0.028786	-0.162180	0.00000	0.00035	-0.00003
	0.104621	-0.020944	-0.162464	0.00000	0.00034	-0.00004
	0.112545	0.043030	-0.166613	0.00000	0.00036	-0.00005
	0.111073	0.050872	-0.166897	0.00000	0.00036	-0.00007
	0.108223	-0.038547	-0.161843	0.00000	0.00035	-0.00001
	0.106751	-0.030705	-0.162127	0.00000	0.00035	-0.00002
	-0.104144	0.058415	-0.101613	0.00000	-0.00038	0.00004
	-0.105616	0.066258	-0.101897	0.00000	-0.00038	0.00002
	-0.108466	-0.023162	-0.096843	0.00000	-0.00039	0.00008
	-0.109938	-0.015320	-0.097127	0.00000	-0.00039	0.00007
	-0.102014	0.048654	-0.101276	0.00000	-0.00037	0.00006
	-0.103486	0.056497	-0.101560	0.00000	-0.00037	0.00004
	-0.106336	-0.032923	-0.096506	0.00000	-0.00038	0.00010
	-0.107808	-0.025081	-0.096790	0.00000	-0.00038	0.00009
475	0.110638	0.057644	-0.117895	-0.00021	0.00036	-0.00001
	0.110410	0.067769	-0.121854	-0.00024	0.00036	-0.00002
	0.110038	-0.022384	-0.088484	0.00006	0.00037	-0.00005
	0.109810	-0.012259	-0.092443	0.00002	0.00037	-0.00006
	0.111122	0.044877	-0.113002	-0.00017	0.00036	0.00001
	0.110894	0.055002	-0.116962	-0.00020	0.00036	0.00000
	0.110522	-0.035151	-0.083591	0.00010	0.00037	-0.00003
	0.110294	-0.025026	-0.087551	0.00006	0.00037	-0.00004
	-0.110525	0.049287	-0.184448	-0.00012	-0.00034	0.00005
	-0.110753	0.059412	-0.188408	-0.00015	-0.00035	0.00003
	-0.111125	-0.030741	-0.155037	0.00015	-0.00033	0.00000
	-0.111353	-0.020616	-0.158997	0.00011	-0.00034	-0.00001
	-0.110041	0.036520	-0.179556	-0.00008	-0.00034	0.00006
	-0.110269	0.046645	-0.183516	-0.00011	-0.00034	0.00005
	-0.110641	-0.043508	-0.150145	0.00019	-0.00033	0.00002
	-0.110869	-0.033383	-0.154105	0.00015	-0.00033	0.00001
476	0.110899	0.057830	-0.151238	-0.00019	0.00000	0.00004
	0.110724	0.066813	-0.154535	-0.00022	0.00000	0.00003
	0.110284	-0.023045	-0.123673	0.00007	0.00000	0.00000
	0.110110	-0.014063	-0.126969	0.00004	0.00000	-0.00001
	0.111323	0.046574	-0.147220	-0.00016	0.00000	0.00005
	0.111149	0.055557	-0.150517	-0.00019	0.00000	0.00004
	0.110709	-0.034301	-0.119655	0.00010	0.00000	0.00001
	0.110535	-0.025319	-0.122951	0.00007	0.00000	0.00000
	-0.109967	0.050827	-0.148607	-0.00012	0.00000	0.00003
	-0.110141	0.059810	-0.151903	-0.00015	0.00000	0.00002
	-0.110581	-0.030048	-0.121041	0.00014	0.00000	-0.00001
	-0.110755	-0.021066	-0.124338	0.00011	0.00000	-0.00002
	-0.109542	0.039571	-0.144589	-0.00008	0.00000	0.00004
	-0.109716	0.048554	-0.147885	-0.00011	0.00000	0.00003
	-0.110156	-0.041304	-0.117023	0.00017	0.00000	0.00000
	-0.110330	-0.032322	-0.120320	0.00015	0.00000	-0.00001
477	0.111684	0.052994	-0.183951	-0.00018	0.00034	0.00000
	0.111544	0.060815	-0.186621	-0.00020	0.00034	-0.00001
	0.110911	-0.028559	-0.157526	0.00006	0.00034	-0.00003
	0.110771	-0.020737	-0.160196	0.00004	0.00034	-0.00005
	0.112070	0.043258	-0.180720	-0.00015	0.00034	0.00002
	0.111931	0.051079	-0.183390	-0.00018	0.00034	0.00001
	0.111297	-0.038295	-0.154295	0.00009	0.00034	-0.00002
	0.111158	-0.030473	-0.156965	0.00007	0.00034	-0.00003
	-0.109840	0.058737	-0.114164	-0.00012	-0.00037	0.00005



	-0.109979	0.066559	-0.116833	-0.00014	-0.00037	0.00004
	-0.110613	-0.022816	-0.087738	0.00013	-0.00037	0.00001
	-0.110752	-0.014994	-0.090408	0.00010	-0.00037	0.00000
	-0.109454	0.049001	-0.110933	-0.00009	-0.00037	0.00007
	-0.109593	0.056823	-0.113602	-0.00011	-0.00037	0.00006
	-0.110226	-0.032551	-0.084507	0.00015	-0.00037	0.00003
	-0.110366	-0.024730	-0.087177	0.00013	-0.00037	0.00002
478	0.080276	0.018968	-0.187681	-0.00047	0.00000	0.00015
	0.086134	0.023385	-0.186685	-0.00052	0.00000	0.00015
	0.097566	-0.038508	-0.191086	-0.00001	0.00000	0.00005
	0.103423	-0.034091	-0.190089	-0.00005	0.00000	0.00005
	0.072447	0.013730	-0.188708	-0.00041	0.00000	0.00015
	0.078304	0.018147	-0.187712	-0.00046	0.00000	0.00015
	0.089736	-0.043746	-0.192112	0.00005	0.00000	0.00005
	0.095593	-0.039329	-0.191116	0.00000	0.00000	0.00005
	-0.099722	0.027940	-0.211837	-0.00032	0.00000	0.00009
	-0.093865	0.032357	-0.210841	-0.00037	0.00000	0.00009
	-0.082433	-0.029536	-0.215241	0.00014	0.00000	-0.00001
	-0.076576	-0.025119	-0.214245	0.00010	0.00000	-0.00001
	-0.107552	0.022702	-0.212864	-0.00026	0.00000	0.00009
	-0.101695	0.027119	-0.211868	-0.00031	0.00000	0.00009
	-0.090262	-0.034774	-0.216268	0.00020	0.00000	-0.00001
	-0.084405	-0.030357	-0.215272	0.00015	0.00000	-0.00001
479	0.080239	0.020272	-0.192903	-0.00047	0.00000	0.00014
	0.086087	0.024677	-0.192242	-0.00051	0.00000	0.00014
	0.097501	-0.038074	-0.195436	-0.00001	0.00000	0.00005
	0.103349	-0.033669	-0.194775	-0.00005	0.00000	0.00005
	0.072420	0.015054	-0.193507	-0.00041	0.00000	0.00015
	0.078268	0.019459	-0.192845	-0.00045	0.00000	0.00014
	0.089682	-0.043292	-0.196040	0.00005	0.00000	0.00005
	0.095530	-0.038887	-0.195379	0.00000	0.00000	0.00005
	-0.099515	0.028808	-0.207533	-0.00032	0.00000	0.00010
	-0.093667	0.033214	-0.206872	-0.00036	0.00000	0.00009
	-0.082253	-0.029537	-0.210066	0.00014	0.00000	0.00000
	-0.076405	-0.025132	-0.209405	0.00010	0.00000	0.00000
	-0.107334	0.023590	-0.208136	-0.00026	0.00000	0.00010
	-0.101485	0.027995	-0.207475	-0.00031	0.00000	0.00010
	-0.090072	-0.034755	-0.210669	0.00020	0.00000	0.00000
	-0.084223	-0.030350	-0.210008	0.00015	0.00000	0.00000
480	0.080723	0.034438	-0.239646	-0.00034	0.00000	0.00015
	0.086551	0.038692	-0.242465	-0.00037	0.00000	0.00015
	0.097930	-0.033400	-0.248058	0.00003	0.00000	0.00005
	0.103758	-0.029146	-0.250877	0.00000	0.00000	0.00005
	0.072933	0.029453	-0.235865	-0.00030	0.00000	0.00015
	0.078761	0.033707	-0.238685	-0.00033	0.00000	0.00015
	0.090140	-0.038385	-0.244278	0.00006	0.00000	0.00005
	0.095968	-0.034131	-0.247097	0.00003	0.00000	0.00005
	-0.098516	0.038515	-0.154768	-0.00026	0.00000	0.00010
	-0.092688	0.042769	-0.157588	-0.00028	0.00000	0.00010
	-0.081310	-0.029323	-0.163180	0.00011	0.00000	0.00000
	-0.075482	-0.025069	-0.166000	0.00008	0.00000	0.00000
	-0.106306	0.033530	-0.150988	-0.00022	0.00000	0.00010
	-0.100478	0.037784	-0.153807	-0.00025	0.00000	0.00010
	-0.089099	-0.034308	-0.159400	0.00014	0.00000	0.00000
	-0.083271	-0.030054	-0.162220	0.00012	0.00000	0.00000
481	0.066727	0.042394	-0.177358	-0.00032	0.00000	-0.00004
	0.071753	0.039527	-0.176336	-0.00029	0.00000	-0.00005
	0.081496	-0.018363	-0.181940	0.00014	0.00000	-0.00007
	0.086522	-0.021230	-0.180918	0.00017	0.00000	-0.00008
	0.059932	0.046343	-0.178772	-0.00036	0.00000	-0.00002
	0.064958	0.043476	-0.177750	-0.00033	0.00000	-0.00004
	0.074701	-0.014414	-0.183354	0.00009	0.00000	-0.00006
	0.079727	-0.017281	-0.182332	0.00012	0.00000	-0.00007
	-0.089633	0.037666	-0.220933	-0.00044	0.00000	-0.00003
	-0.084607	0.034799	-0.219911	-0.00041	0.00000	-0.00004
	-0.074865	-0.023091	-0.225515	0.00002	0.00000	-0.00006
	-0.069839	-0.025958	-0.224493	0.00005	0.00000	-0.00007
	-0.096428	0.041615	-0.222347	-0.00048	0.00000	-0.00001
	-0.091402	0.038748	-0.221325	-0.00045	0.00000	-0.00002
	-0.081659	-0.019143	-0.226930	-0.00003	0.00000	-0.00005
	-0.076633	-0.022009	-0.225907	0.00000	0.00000	-0.00006
482	0.067019	0.040854	-0.194209	-0.00033	0.00000	-0.00004
	0.072041	0.037656	-0.194344	-0.00030	0.00000	-0.00005
	0.081776	-0.019959	-0.197912	0.00013	0.00000	-0.00007
	0.086797	-0.023156	-0.198047	0.00016	0.00000	-0.00008
	0.060229	0.045268	-0.194160	-0.00038	0.00000	-0.00002
	0.065251	0.042070	-0.194296	-0.00034	0.00000	-0.00004
	0.074985	-0.015545	-0.197863	0.00009	0.00000	-0.00006
	0.080007	-0.018742	-0.197999	0.00012	0.00000	-0.00007
	-0.089210	0.036196	-0.204684	-0.00045	0.00000	-0.00003
	-0.084188	0.032998	-0.204820	-0.00042	0.00000	-0.00004
	-0.074454	-0.024617	-0.208387	0.00001	0.00000	-0.00006
	-0.069432	-0.027814	-0.208523	0.00004	0.00000	-0.00007

	-0.096000	0.040610	-0.204636	-0.00050	0.00000	-0.00001
	-0.090978	0.037412	-0.204771	-0.00047	0.00000	-0.00003
	-0.081244	-0.020203	-0.208339	-0.00004	0.00000	-0.00005
	-0.076222	-0.023400	-0.208474	-0.00001	0.00000	-0.00006
483	0.067212	0.039974	-0.203220	-0.00034	0.00000	-0.00004
	0.072233	0.036587	-0.204019	-0.00030	0.00000	-0.00005
	0.081965	-0.020861	-0.207718	0.00013	0.00000	-0.00007
	0.086986	-0.024248	-0.208516	0.00016	0.00000	-0.00008
	0.060422	0.044655	-0.202334	-0.00039	0.00000	-0.00002
	0.065443	0.041268	-0.203133	-0.00035	0.00000	-0.00003
	0.075176	-0.016181	-0.206832	0.00008	0.00000	-0.00006
	0.080197	-0.019567	-0.207630	0.00011	0.00000	-0.00007
	-0.088985	0.035326	-0.194717	-0.00046	0.00000	-0.00003
	-0.083964	0.031939	-0.195515	-0.00043	0.00000	-0.00004
	-0.074231	-0.025509	-0.199214	0.00000	0.00000	-0.00006
	-0.069210	-0.028896	-0.200013	0.00003	0.00000	-0.00007
	-0.095774	0.040006	-0.193831	-0.00051	0.00000	-0.00001
	-0.090753	0.036620	-0.194629	-0.00048	0.00000	-0.00003
	-0.081020	-0.020829	-0.198328	-0.00005	0.00000	-0.00005
	-0.075999	-0.024215	-0.199127	-0.00001	0.00000	-0.00006
484	0.067243	0.039842	-0.204637	-0.00034	0.00000	-0.00004
	0.072264	0.036427	-0.205541	-0.00031	0.00000	-0.00005
	0.081996	-0.020995	-0.209325	0.00013	0.00000	-0.00007
	0.087017	-0.024410	-0.210230	0.00016	0.00000	-0.00008
	0.060453	0.044563	-0.203617	-0.00039	0.00000	-0.00002
	0.065474	0.041148	-0.204522	-0.00035	0.00000	-0.00003
	0.075207	-0.016274	-0.208305	0.00008	0.00000	-0.00006
	0.080228	-0.019690	-0.209210	0.00011	0.00000	-0.00007
	-0.088952	0.035191	-0.193115	-0.00047	0.00000	-0.00003
	-0.083931	0.031776	-0.194020	-0.00043	0.00000	-0.00004
	-0.074199	-0.025647	-0.197804	0.00000	0.00000	-0.00006
	-0.069178	-0.029062	-0.198708	0.00003	0.00000	-0.00007
	-0.095741	0.039912	-0.192095	-0.00051	0.00000	-0.00002
	-0.090720	0.036497	-0.193000	-0.00048	0.00000	-0.00003
	-0.080988	-0.020926	-0.196784	-0.00005	0.00000	-0.00005
	-0.075967	-0.024341	-0.197688	-0.00001	0.00000	-0.00006
485	0.117097	0.048636	-0.279378	0.00031	0.00010	0.00002
	0.122375	0.022074	-0.243191	0.00014	0.00006	0.00009
	0.132863	-0.060362	-0.132492	-0.00034	-0.00001	0.00032
	0.138141	-0.086924	-0.096304	-0.00051	-0.00005	0.00039
	0.109909	0.083399	-0.327142	0.00053	0.00014	-0.00007
	0.115188	0.056838	-0.290954	0.00037	0.00011	0.00000
	0.125676	-0.025599	-0.180255	-0.00012	0.00004	0.00023
	0.130954	-0.052160	-0.144067	-0.00028	0.00000	0.00030
	-0.136094	0.099240	-0.403872	0.00088	-0.00022	-0.00041
	-0.130815	0.072679	-0.367685	0.00071	-0.00026	-0.00034
	-0.120328	-0.009758	-0.256986	0.00023	-0.00033	-0.00011
	-0.115049	-0.036320	-0.220798	0.00006	-0.00037	-0.00004
	-0.143281	0.134004	-0.451636	0.00110	-0.00018	-0.00051
	-0.138003	0.107442	-0.415448	0.00094	-0.00021	-0.00044
	-0.127515	0.025006	-0.304749	0.00045	-0.00028	-0.00021
	-0.122236	-0.001556	-0.268561	0.00029	-0.00032	-0.00014
486	0.116207	0.061337	-0.295801	0.00036	0.00006	-0.00022
	0.121420	0.036306	-0.252026	0.00018	0.00001	-0.00017
	0.131794	-0.039841	-0.123135	-0.00033	-0.00011	-0.00002
	0.137008	-0.064872	-0.079360	-0.00051	-0.00016	0.00004
	0.109107	0.094025	-0.354130	0.00060	0.00013	-0.00030
	0.114321	0.068993	-0.310356	0.00042	0.00008	-0.00024
	0.124695	-0.007153	-0.181464	-0.00009	-0.00004	-0.00009
	0.129909	-0.032185	-0.137689	-0.00027	-0.00009	-0.00004
	-0.135679	0.089435	-0.389569	0.00084	0.00001	0.00020
	-0.130465	0.064404	-0.345794	0.00066	-0.00004	0.00026
	-0.120092	-0.011743	-0.216902	0.00015	-0.00016	0.00041
	-0.114878	-0.036774	-0.173127	-0.00002	-0.00021	0.00047
	-0.142778	0.122123	-0.447898	0.00108	0.00008	0.00013
	-0.137564	0.097091	-0.404123	0.00090	0.00003	0.00018
	-0.127191	0.020945	-0.275232	0.00039	-0.00009	0.00034
	-0.121977	-0.004087	-0.231457	0.00021	-0.00014	0.00039
487	0.115172	0.062906	-0.295553	0.00035	0.00004	0.00142
	0.120367	0.038254	-0.251672	0.00018	0.00008	0.00147
	0.130720	-0.036483	-0.123000	-0.00033	0.00022	0.00158
	0.135914	-0.061135	-0.079119	-0.00050	0.00026	0.00163
	0.108102	0.095079	-0.354073	0.00059	-0.00002	0.00135
	0.113296	0.070428	-0.310192	0.00041	0.00003	0.00140
	0.123650	-0.004310	-0.181520	-0.00009	0.00016	0.00150
	0.128844	-0.028961	-0.137639	-0.00026	0.00020	0.00155
	-0.135221	0.088279	-0.385674	0.00081	-0.00035	-0.00059
	-0.130027	0.063627	-0.341793	0.00063	-0.00031	-0.00054
	-0.119673	-0.011111	-0.213121	0.00013	-0.00017	-0.00044
	-0.114479	-0.035762	-0.169240	-0.00004	-0.00013	-0.00039
	-0.142291	0.120452	-0.444193	0.00104	-0.00041	-0.00067
	-0.137097	0.095801	-0.400312	0.00087	-0.00036	-0.00062
	-0.126744	0.021063	-0.271641	0.00037	-0.00023	-0.00051

	-0.121549	-0.003589	-0.227759	0.00019	-0.00019	-0.00046
488	0.114735	0.082785	-0.388041	0.00046	0.00086	-0.00060
	0.119947	0.059702	-0.350782	0.00031	0.00088	-0.00052
	0.130339	-0.008394	-0.239428	-0.00014	0.00094	-0.00026
	0.135550	-0.031477	-0.202168	-0.00029	0.00096	-0.00018
	0.107643	0.112876	-0.437455	0.00067	0.00082	-0.00070
	0.112855	0.089793	-0.400195	0.00052	0.00085	-0.00062
	0.123247	0.021697	-0.288841	0.00007	0.00090	-0.00036
	0.128458	-0.001386	-0.251582	-0.00008	0.00093	-0.00028
	-0.134666	0.065038	-0.308369	0.00069	-0.00045	-0.00028
	-0.129455	0.041955	-0.271110	0.00054	-0.00042	-0.00020
	-0.119063	-0.026141	-0.159755	0.00009	-0.00037	0.00006
	-0.113851	-0.049224	-0.122496	-0.00006	-0.00034	0.00014
	-0.141758	0.095128	-0.357782	0.00090	-0.00048	-0.00039
	-0.136547	0.072045	-0.320523	0.00075	-0.00046	-0.00031
	-0.126155	0.003949	-0.209169	0.00030	-0.00040	-0.00004
	-0.120943	-0.019134	-0.171909	0.00015	-0.00038	0.00004
489	0.113294	0.049029	-0.226527	-0.00023	0.00046	0.00006
	0.116888	0.022736	-0.219464	-0.00015	0.00047	0.00007
	0.099121	-0.058798	-0.197497	0.00012	0.00041	0.00009
	0.102716	-0.085090	-0.190434	0.00020	0.00043	0.00009
	0.108378	0.083454	-0.234954	-0.00035	0.00045	0.00006
	0.111973	0.057162	-0.227891	-0.00027	0.00046	0.00006
	0.094206	-0.024372	-0.205924	0.00000	0.00040	0.00009
	0.097801	-0.050664	-0.198861	0.00008	0.00041	0.00009
	-0.111756	0.098137	-0.221602	-0.00037	-0.00023	-0.00003
	-0.108162	0.071845	-0.214540	-0.00029	-0.00022	-0.00003
	-0.125928	-0.009689	-0.192572	-0.00002	-0.00028	0.00000
	-0.122334	-0.035982	-0.185509	0.00006	-0.00027	0.00000
	-0.116672	0.132563	-0.230030	-0.00049	-0.00024	-0.00003
	-0.113077	0.106270	-0.222967	-0.00041	-0.00023	-0.00003
	-0.130844	0.024736	-0.201000	-0.00014	-0.00029	0.00000
	-0.127249	-0.001556	-0.193937	-0.00005	-0.00028	0.00000
490	0.113992	0.060231	-0.248432	0.00003	-0.00008	0.00007
	0.117541	0.035285	-0.237698	-0.00002	-0.00010	0.00008
	0.099833	-0.040558	-0.204497	-0.00015	-0.00016	0.00012
	0.103381	-0.065504	-0.193763	-0.00020	-0.00018	0.00013
	0.109129	0.092810	-0.261727	0.00009	-0.00006	0.00005
	0.112677	0.067864	-0.250993	0.00004	-0.00008	0.00006
	0.094969	-0.007979	-0.217792	-0.00009	-0.00013	0.00011
	0.098518	-0.032925	-0.207058	-0.00014	-0.00015	0.00012
	-0.112299	0.089635	-0.236386	0.00024	0.00009	-0.00007
	-0.108750	0.064689	-0.225652	0.00019	0.00007	-0.00006
	-0.126458	-0.011153	-0.192450	0.00005	0.00002	-0.00001
	-0.122910	-0.036100	-0.181716	0.00001	0.00000	0.00000
	-0.117162	0.122214	-0.249681	0.00030	0.00012	-0.00008
	-0.113614	0.097268	-0.238947	0.00025	0.00010	-0.00007
	-0.131322	0.021425	-0.205746	0.00012	0.00005	-0.00003
	-0.127773	-0.003521	-0.195012	0.00007	0.00003	-0.00002
491	0.114337	0.061443	-0.246592	0.00005	-0.00012	0.00006
	0.117884	0.036735	-0.235299	0.00000	-0.00014	0.00007
	0.100176	-0.038104	-0.200842	-0.00012	-0.00019	0.00011
	0.103723	-0.062812	-0.189549	-0.00017	-0.00021	0.00012
	0.109472	0.093702	-0.260586	0.00011	-0.00010	0.00005
	0.113020	0.068994	-0.249293	0.00006	-0.00012	0.00006
	0.095312	-0.005845	-0.214835	-0.00006	-0.00017	0.00010
	0.098859	-0.030553	-0.203542	-0.00011	-0.00019	0.00011
	-0.112410	0.088393	-0.237351	0.00020	0.00005	-0.00006
	-0.108862	0.063685	-0.226058	0.00016	0.00003	-0.00005
	-0.126570	-0.011154	-0.191601	0.00003	-0.00002	-0.00001
	-0.123023	-0.035862	-0.180308	-0.00001	-0.00004	0.00000
	-0.117274	0.120652	-0.251344	0.00026	0.00007	-0.00007
	-0.113727	0.095944	-0.240051	0.00022	0.00005	-0.00006
	-0.131435	0.021105	-0.205594	0.00010	0.00000	-0.00002
	-0.127887	-0.003603	-0.194301	0.00005	-0.00002	-0.00001
492	0.114681	0.082692	-0.232788	-0.00018	0.00021	-0.00001
	0.118244	0.059363	-0.223412	-0.00006	0.00026	0.00000
	0.100552	-0.009376	-0.193784	0.00030	0.00036	0.00003
	0.104114	-0.032704	-0.184408	0.00043	0.00040	0.00004
	0.109794	0.113128	-0.244047	-0.00035	0.00016	-0.00001
	0.113357	0.089800	-0.234671	-0.00022	0.00020	-0.00001
	0.095664	0.021061	-0.205043	0.00013	0.00030	0.00003
	0.099227	-0.002268	-0.195667	0.00026	0.00034	0.00003
	-0.112170	0.064584	-0.201115	-0.00045	-0.00054	-0.00007
	-0.108607	0.041255	-0.191739	-0.00033	-0.00050	-0.00007
	-0.126300	-0.027484	-0.162111	0.00003	-0.00040	-0.00003
	-0.122737	-0.050812	-0.152735	0.00016	-0.00035	-0.00003
	-0.117058	0.095020	-0.212374	-0.00062	-0.00060	-0.00008
	-0.113495	0.071691	-0.202998	-0.00050	-0.00055	-0.00007
	-0.131187	0.002952	-0.173370	-0.00014	-0.00046	-0.00004
	-0.127624	-0.020376	-0.163994	-0.00001	-0.00041	-0.00003
493	0.118212	0.065127	-0.115834	-0.00020	0.00045	0.00002

	0.115212	0.075139	-0.114194	-0.00023	0.00044	0.00001
	0.109314	-0.023274	-0.132492	0.00004	0.00041	-0.00002
	0.106314	-0.013261	-0.130853	0.00002	0.00040	-0.00003
	0.122323	0.052600	-0.117771	-0.00017	0.00045	0.00003
	0.119323	0.062613	-0.116132	-0.00020	0.00045	0.00002
	0.113425	-0.035800	-0.134430	0.00007	0.00042	-0.00001
	0.110425	-0.025787	-0.132791	0.00005	0.00041	-0.00002
	-0.107709	0.054601	-0.124263	-0.00012	-0.00042	0.00003
	-0.110709	0.064613	-0.122623	-0.00015	-0.00043	0.00002
	-0.116606	-0.033800	-0.140922	0.00012	-0.00046	0.00000
	-0.119607	-0.023787	-0.139282	0.00010	-0.00046	-0.00001
	-0.103597	0.042074	-0.126200	-0.00009	-0.00041	0.00005
	-0.106598	0.052087	-0.124561	-0.00012	-0.00042	0.00004
	-0.112495	-0.046326	-0.142859	0.00016	-0.00045	0.00001
	-0.115496	-0.036314	-0.141220	0.00013	-0.00045	0.00000
494	0.113826	0.066284	-0.182292	-0.00024	0.00000	-0.00001
	0.122514	0.060903	-0.181173	-0.00022	0.00000	-0.00003
	0.139491	-0.031810	-0.187171	0.00015	0.00000	-0.00006
	0.148179	-0.037191	-0.186051	0.00018	0.00000	-0.00007
	0.102453	0.073878	-0.183795	-0.00028	0.00000	0.00001
	-0.111141	0.068498	-0.182675	-0.00025	0.00000	-0.00001
	0.128119	-0.024216	-0.188674	0.00011	0.00000	-0.00004
	0.136806	-0.029596	-0.187554	0.00014	0.00000	-0.00005
	-0.146793	0.074227	-0.228789	-0.00037	0.00000	0.00001
	-0.138106	0.068846	-0.227670	-0.00034	0.00000	-0.00001
	-0.121128	-0.023867	-0.233668	0.00002	0.00000	-0.00004
	-0.112440	-0.029248	-0.232549	0.00005	0.00000	-0.00005
	-0.158166	0.081821	-0.230292	-0.00041	0.00000	0.00003
	-0.149478	0.076440	-0.229173	-0.00038	0.00000	0.00002
	-0.132501	-0.016273	-0.235171	-0.00002	0.00000	-0.00002
	-0.123813	-0.021654	-0.234051	0.00001	0.00000	-0.00003
495	0.114218	0.065401	-0.201296	-0.00025	0.00000	-0.00001
	0.122906	0.059553	-0.201457	-0.00022	0.00000	-0.00002
	0.139883	-0.032924	-0.205200	0.00014	0.00000	-0.00005
	0.148571	-0.038772	-0.205360	0.00017	0.00000	-0.00007
	0.102843	0.073616	-0.201217	-0.00029	0.00000	0.00001
	0.111532	0.067768	-0.201377	-0.00026	0.00000	0.00000
	0.128509	-0.024709	-0.205121	0.00010	0.00000	-0.00003
	0.137197	-0.030557	-0.205281	0.00013	0.00000	-0.00005
	-0.146397	0.073977	-0.211448	-0.00039	0.00000	0.00001
	-0.137709	0.068129	-0.211609	-0.00036	0.00000	0.00000
	-0.120732	-0.024348	-0.215352	0.00001	0.00000	-0.00003
	-0.112043	-0.030196	-0.215512	0.00004	0.00000	-0.00005
	-0.157771	0.082192	-0.211369	-0.00043	0.00000	0.00004
	-0.149083	0.076344	-0.211529	-0.00040	0.00000	0.00002
	-0.132106	-0.016133	-0.215273	-0.00003	0.00000	-0.00001
	-0.123418	-0.021981	-0.215433	0.00000	0.00000	-0.00003
496	0.114362	0.065161	-0.207272	-0.00026	0.00000	-0.00001
	0.123051	0.059154	-0.207862	-0.00023	0.00000	-0.00002
	0.140031	-0.033297	-0.211626	0.00014	0.00000	-0.00005
	0.148719	-0.039304	-0.212216	0.00017	0.00000	-0.00007
	0.102988	0.073588	-0.206662	-0.00030	0.00000	0.00002
	0.111676	0.067581	-0.207251	-0.00027	0.00000	0.00000
	0.128656	-0.024870	-0.211016	0.00010	0.00000	-0.00003
	0.137345	-0.030877	-0.211606	0.00013	0.00000	-0.00005
	-0.146263	0.073953	-0.205170	-0.00039	0.00000	0.00002
	-0.137574	0.067946	-0.205759	-0.00036	0.00000	0.00000
	-0.120595	-0.024505	-0.209524	0.00001	0.00000	-0.00003
	-0.111906	-0.030513	-0.210114	0.00003	0.00000	-0.00005
	-0.157638	0.082379	-0.204559	-0.00043	0.00000	0.00004
	-0.148949	0.076372	-0.205149	-0.00040	0.00000	0.00002
	-0.131969	-0.016079	-0.208914	-0.00004	0.00000	-0.00001
	-0.123280	-0.022086	-0.209504	-0.00001	0.00000	-0.00003
497	0.114494	0.064931	-0.212961	-0.00026	0.00000	0.00000
	0.123184	0.058764	-0.213974	-0.00023	0.00000	-0.00002
	0.140166	-0.033676	-0.218052	0.00014	0.00000	-0.00005
	0.148856	-0.039843	-0.219065	0.00017	0.00000	-0.00007
	0.103119	0.073571	-0.211828	-0.00030	0.00000	0.00002
	0.111809	0.067404	-0.212841	-0.00027	0.00000	0.00000
	0.128791	-0.025036	-0.216919	0.00010	0.00000	-0.00003
	0.137480	-0.031203	-0.217932	0.00013	0.00000	-0.00005
	-0.146142	0.073941	-0.198866	-0.00040	0.00000	0.00002
	-0.137453	0.067773	-0.199878	-0.00037	0.00000	0.00000
	-0.120471	-0.024666	-0.203956	0.00000	0.00000	-0.00003
	-0.111781	-0.030834	-0.204969	0.00003	0.00000	-0.00005
	-0.157517	0.082580	-0.197732	-0.00044	0.00000	0.00004
	-0.148828	0.076413	-0.198745	-0.00041	0.00000	0.00002
	-0.131846	-0.016027	-0.202823	-0.00004	0.00000	-0.00001
	-0.123156	-0.022194	-0.203836	-0.00001	0.00000	-0.00003
498	0.134871	0.096164	-0.113213	-0.00011	0.00050	0.00001
	0.128666	0.111935	-0.112399	-0.00017	0.00048	0.00000
	0.116542	-0.012977	-0.122404	0.00023	0.00059	-0.00003
	0.110337	0.002795	-0.121590	0.00017	0.00056	-0.00005

	0.143162	0.076248	-0.114073	-0.00005	0.00054	0.00003
	0.136956	0.092020	-0.113259	-0.00010	0.00051	0.00002
	0.124832	-0.032892	-0.123264	0.00029	0.00062	-0.00001
	0.118627	-0.017120	-0.122450	0.00024	0.00059	-0.00003
	-0.128876	0.061805	-0.156871	-0.00021	-0.00043	0.00006
	-0.135082	0.077577	-0.156058	-0.00026	-0.00046	0.00005
	-0.147205	-0.047335	-0.166062	0.00013	-0.00035	0.00002
	-0.153411	-0.031564	-0.165249	0.00008	-0.00038	0.00000
	-0.120586	0.041890	-0.157731	-0.00014	-0.00040	0.00008
	-0.126791	0.057661	-0.156918	-0.00019	-0.00043	0.00007
	-0.138915	-0.067251	-0.166922	0.00020	-0.00032	0.00004
	-0.145121	-0.051479	-0.166109	0.00015	-0.00034	0.00002
499	0.132525	0.080453	-0.063273	-0.00016	-0.00003	-0.00001
	0.126305	0.093420	-0.060462	-0.00016	-0.00005	-0.00002
	0.114124	-0.023751	-0.107180	-0.00003	0.00012	-0.00006
	0.107905	-0.010784	-0.104369	-0.00002	0.00010	-0.00007
	0.140835	0.064180	-0.066535	-0.00017	-0.00001	0.00001
	0.134616	0.077147	-0.063723	-0.00016	-0.00003	0.00000
	0.122435	-0.040024	-0.110442	-0.00003	0.00015	-0.00004
	0.116215	-0.027057	-0.107630	-0.00003	0.00013	-0.00005
	-0.128433	0.059030	-0.166331	0.00017	-0.00021	-0.00010
	-0.134652	0.071997	-0.163520	0.00018	-0.00023	-0.00011
	-0.146833	-0.045173	-0.210238	0.00030	-0.00006	-0.00016
	-0.153053	-0.032207	-0.207427	0.00031	-0.00008	-0.00017
	-0.120122	0.042758	-0.169593	0.00017	-0.00019	-0.00009
	-0.126341	0.055724	-0.166782	0.00017	-0.00021	-0.00010
	-0.138522	-0.061446	-0.213500	0.00030	-0.00003	-0.00014
	-0.144742	-0.048480	-0.210689	0.00030	-0.00005	-0.00015
500	0.145594	0.098421	-0.047661	0.00026	0.00016	-0.00017
	0.142010	0.114259	-0.046050	0.00024	0.00017	-0.00019
	0.135000	-0.011297	-0.064617	0.00039	0.00009	-0.00009
	0.131416	0.004540	-0.063006	0.00037	0.00011	-0.00011
	0.150458	0.078420	-0.049624	0.00029	0.00014	-0.00014
	0.146874	0.094257	-0.048013	0.00027	0.00015	-0.00016
	0.139864	-0.031298	-0.066580	0.00041	0.00007	-0.00006
	0.136280	-0.015461	-0.064970	0.00039	0.00009	-0.00008
	-0.133691	0.061409	-0.226880	-0.00034	-0.00040	-0.00001
	-0.137274	0.077247	-0.225269	-0.00036	-0.00038	-0.00003
	-0.144284	-0.048309	-0.243836	-0.00022	-0.00046	0.00007
	-0.147868	-0.032472	-0.242225	-0.00024	-0.00045	0.00005
	-0.128827	0.041408	-0.228843	-0.00031	-0.00042	0.00002
	-0.132410	0.057245	-0.227232	-0.00033	-0.00040	0.00000
	-0.139420	-0.068310	-0.245799	-0.00019	-0.00048	0.00010
	-0.143004	-0.052473	-0.244188	-0.00021	-0.00047	0.00008
501	0.144703	0.079485	-0.078459	-0.00018	0.00033	-0.00001
	0.141161	0.092749	-0.077130	-0.00021	0.00032	-0.00002
	0.134225	-0.026427	-0.096573	0.00007	0.00036	-0.00005
	0.130683	-0.013163	-0.095244	0.00004	0.00035	-0.00007
	0.149514	0.062835	-0.079984	-0.00014	0.00034	0.00001
	0.145972	0.076099	-0.078654	-0.00017	0.00033	0.00000
	0.139035	-0.043076	-0.098098	0.00011	0.00037	-0.00003
	0.135493	-0.029812	-0.096768	0.00008	0.00036	-0.00005
	-0.133117	0.061530	-0.162326	-0.00015	-0.00039	0.00006
	-0.136659	0.074794	-0.160996	-0.00019	-0.00040	0.00004
	-0.143596	-0.044382	-0.180440	0.00010	-0.00036	0.00001
	-0.147138	-0.031117	-0.179110	0.00007	-0.00037	-0.00001
	-0.128307	0.044881	-0.163850	-0.00012	-0.00038	0.00008
	-0.131849	0.058145	-0.162521	-0.00015	-0.00039	0.00006
	-0.138786	-0.061031	-0.181964	0.00014	-0.00035	0.00003
	-0.142328	-0.047767	-0.180635	0.00011	-0.00036	0.00001
502	0.168199	0.092683	-0.099361	-0.00023	0.00037	0.00001
	0.165767	0.108124	-0.100858	-0.00027	0.00036	-0.00001
	0.160990	-0.030543	-0.092324	0.00004	0.00035	-0.00004
	0.158558	-0.015102	-0.093820	0.00001	0.00034	-0.00006
	0.171537	0.073366	-0.097494	-0.00019	0.00038	0.00004
	0.169105	0.088807	-0.098991	-0.00023	0.00037	0.00002
	0.164327	-0.049860	-0.090456	0.00008	0.00036	-0.00002
	0.161895	-0.034419	-0.091953	0.00005	0.00035	-0.00004
	-0.160872	0.072711	-0.179135	-0.00015	-0.00037	0.00005
	-0.163304	0.088152	-0.180631	-0.00018	-0.00038	0.00003
	-0.168081	-0.050515	-0.172097	0.00012	-0.00039	-0.00001
	-0.170513	-0.035074	-0.173594	0.00009	-0.00039	-0.00003
	-0.157534	0.053394	-0.177268	-0.00011	-0.00036	0.00007
	-0.159966	0.068835	-0.178764	-0.00015	-0.00037	0.00005
	-0.164744	-0.069832	-0.170230	0.00016	-0.00038	0.00002
	-0.167176	-0.054391	-0.171727	0.00013	-0.00039	0.00000
503	0.197303	0.101791	-0.081044	-0.00025	0.00057	0.00000
	0.170593	0.121255	-0.080936	-0.00027	0.00051	-0.00001
	0.118069	-0.031044	-0.096640	-0.00005	0.00039	-0.00004
	0.091359	-0.011580	-0.096531	-0.00008	0.00033	-0.00006
	0.232113	0.077331	-0.080224	-0.00021	0.00065	0.00003
	0.205403	0.096795	-0.080116	-0.00024	0.00059	0.00001
	0.152879	-0.055504	-0.095820	-0.00002	0.00047	-0.00002

	0.126169	-0.036040	-0.095711	-0.00005	0.00041	-0.00004
	-0.111476	0.074741	-0.117227	-0.00021	-0.00011	0.00004
	-0.138186	0.094205	-0.117119	-0.00024	-0.00017	0.00003
	-0.190710	-0.058094	-0.132823	-0.00002	-0.00029	-0.00001
	-0.217420	-0.038630	-0.132714	-0.00004	-0.00035	-0.00002
	-0.076666	0.050281	-0.116407	-0.00017	-0.00003	0.00006
	-0.103376	0.069745	-0.116299	-0.00020	-0.00009	0.00005
	-0.155901	-0.082554	-0.132003	0.00002	-0.00021	0.00002
	-0.182610	-0.063090	-0.131894	-0.00001	-0.00027	0.00000
504	0.197337	0.092268	-0.105410	-0.00032	0.00026	0.00002
	0.170628	0.103900	-0.104296	-0.00033	0.00022	0.00000
	0.118107	-0.032461	-0.116756	-0.00016	0.00014	-0.00003
	0.091398	-0.020829	-0.115643	-0.00017	0.00010	-0.00005
	0.232145	0.077957	-0.106680	-0.00030	0.00031	0.00005
	0.205436	0.089590	-0.105566	-0.00031	0.00027	0.00003
	0.152914	-0.046772	-0.118027	-0.00014	0.00019	-0.00001
	0.126205	-0.035139	-0.116913	-0.00016	0.00015	-0.00003
	-0.111500	0.078298	-0.110379	-0.00028	-0.00022	0.00005
	-0.138209	0.089930	-0.109265	-0.00029	-0.00026	0.00003
	-0.190730	-0.046431	-0.121725	-0.00012	-0.00034	0.00000
	-0.217439	-0.034798	-0.120611	-0.00013	-0.00039	-0.00002
	-0.076692	0.063987	-0.111649	-0.00026	-0.00017	0.00008
	-0.103401	0.075620	-0.110535	-0.00027	-0.00021	0.00006
	-0.155923	-0.060742	-0.122995	-0.00010	-0.00029	0.00002
	-0.182632	-0.049109	-0.121882	-0.00011	-0.00033	0.00000
505	0.197385	0.082675	-0.117468	-0.00037	0.00019	0.00000
	0.170677	0.084444	-0.115349	-0.00037	0.00015	-0.00001
	0.118158	-0.037597	-0.128121	-0.00008	0.00007	-0.00005
	0.091450	-0.035828	-0.126001	-0.00008	0.00003	-0.00006
	0.232189	0.081144	-0.120977	-0.00037	0.00024	0.00002
	0.205481	0.082913	-0.118858	-0.00037	0.00020	0.00001
	0.152962	-0.039128	-0.131630	-0.00008	0.00012	-0.00003
	0.126254	-0.037359	-0.129511	-0.00008	0.00008	-0.00004
	-0.111526	0.086195	-0.090833	-0.00037	-0.00029	0.00004
	-0.138234	0.087964	-0.088714	-0.00038	-0.00033	0.00002
	-0.190753	-0.034077	-0.101486	-0.00008	-0.00041	-0.00001
	-0.217461	-0.032308	-0.099366	-0.00009	-0.00045	-0.00003
	-0.076722	0.084663	-0.094342	-0.00037	-0.00024	0.00006
	-0.103430	0.086432	-0.092223	-0.00037	-0.00028	0.00004
	-0.155949	-0.035608	-0.104995	-0.00008	-0.00036	0.00001
	-0.182657	-0.033840	-0.102876	-0.00008	-0.00040	-0.00001
506	0.189004	0.101819	-0.094197	-0.00027	0.00043	0.00002
	0.171544	0.121284	-0.093442	-0.00030	0.00041	0.00000
	0.137221	-0.031019	-0.107445	-0.00005	0.00037	-0.00004
	0.119761	-0.011554	-0.106690	-0.00009	0.00035	-0.00006
	0.211824	0.077358	-0.094663	-0.00023	0.00045	0.00004
	0.194363	0.096823	-0.093908	-0.00026	0.00043	0.00002
	0.160041	-0.055481	-0.107911	-0.00001	0.00039	-0.00002
	0.142581	-0.036016	-0.107156	-0.00005	0.00037	-0.00003
	-0.133232	0.074739	-0.127912	-0.00022	0.00002	0.00004
	-0.150692	0.094204	-0.127158	-0.00025	0.00000	0.00003
	-0.185015	-0.058099	-0.141160	0.00000	-0.00004	-0.00001
	-0.202475	-0.038634	-0.140406	-0.00003	-0.00006	-0.00003
	-0.110412	0.050278	-0.128378	-0.00018	0.00004	0.00007
	-0.127873	0.069743	-0.127624	-0.00021	0.00002	0.00005
	-0.162195	-0.082561	-0.141626	0.00004	-0.00002	0.00001
	-0.179655	-0.063095	-0.140872	0.00001	-0.00004	-0.00001
507	0.189023	0.092263	-0.129818	-0.00016	0.00021	0.00002
	0.171563	0.103897	-0.129104	-0.00017	0.00018	0.00000
	0.137244	-0.032465	-0.135830	-0.00010	0.00013	-0.00003
	0.119784	-0.020831	-0.135117	-0.00011	0.00011	-0.00005
	0.211841	0.077953	-0.130681	-0.00015	0.00023	0.00005
	0.194382	0.089587	-0.129967	-0.00016	0.00021	0.00003
	0.160062	-0.046776	-0.136693	-0.00009	0.00016	-0.00001
	0.142603	-0.035142	-0.135980	-0.00010	0.00014	-0.00003
	-0.133237	0.078299	-0.130879	-0.00015	-0.00024	0.00006
	-0.150696	0.089933	-0.130165	-0.00016	-0.00027	0.00004
	-0.185016	-0.046429	-0.136892	-0.00009	-0.00031	0.00000
	-0.202475	-0.034796	-0.136178	-0.00010	-0.00034	-0.00002
	-0.110418	0.063989	-0.131742	-0.00015	-0.00022	0.00008
	-0.127878	0.075623	-0.131029	-0.00015	-0.00024	0.00006
	-0.162197	-0.060740	-0.137755	-0.00009	-0.00029	0.00003
	-0.179657	-0.049106	-0.137041	-0.00009	-0.00031	0.00001
508	0.189047	0.082652	-0.143600	-0.00015	0.00020	0.00001
	0.171588	0.084421	-0.142345	-0.00015	0.00018	-0.00001
	0.137272	-0.037623	-0.149716	0.00005	0.00014	-0.00004
	0.119813	-0.035854	-0.148461	0.00004	0.00011	-0.00006
	0.211864	0.081123	-0.145570	-0.00015	0.00023	0.00004
	0.194405	0.082892	-0.144315	-0.00015	0.00021	0.00002
	0.160089	-0.039153	-0.151687	0.00005	0.00016	-0.00002
	0.142630	-0.037384	-0.150432	0.00005	0.00014	-0.00004
	-0.133246	0.086203	-0.122477	-0.00016	-0.00022	0.00004
	-0.150705	0.087972	-0.121221	-0.00016	-0.00024	0.00002

	-0.185021	-0.034072	-0.128593	0.00004	-0.00029	-0.00001
	-0.202480	-0.032303	-0.127338	0.00004	-0.00031	-0.00003
	-0.110430	0.084674	-0.124447	-0.00015	-0.00019	0.00007
	-0.127888	0.086443	-0.123192	-0.00016	-0.00022	0.00005
	-0.162204	-0.035602	-0.130563	0.00004	-0.00026	0.00001
	-0.179663	-0.033832	-0.129308	0.00004	-0.00028	-0.00001
509	0.180445	0.128820	-0.162646	-0.00043	0.00051	0.00001
	0.172639	0.165973	-0.159280	-0.00052	0.00049	-0.00001
	0.157314	-0.033487	-0.182103	-0.00003	0.00046	-0.00004
	0.149509	0.003666	-0.178738	-0.00013	0.00044	-0.00006
	0.190743	0.081423	-0.166205	-0.00031	0.00052	0.00004
	0.182938	0.118576	-0.162839	-0.00041	0.00051	0.00002
	0.167612	-0.080884	-0.185662	0.00008	0.00048	-0.00002
	0.159807	-0.043731	-0.182297	-0.00001	0.00046	-0.00004
	-0.156115	0.072138	-0.228516	-0.00028	-0.00017	0.00006
	-0.163920	0.109290	-0.225150	-0.00037	-0.00019	0.00004
	-0.179246	-0.090169	-0.247973	0.00011	-0.00022	0.00000
	-0.187051	-0.053016	-0.244608	0.00002	-0.00023	-0.00002
	-0.145817	0.024741	-0.232075	-0.00017	-0.00015	0.00009
	-0.153622	0.061894	-0.228710	-0.00026	-0.00017	0.00007
	-0.168947	-0.137566	-0.251532	0.00022	-0.00020	0.00003
	-0.176752	-0.100413	-0.248167	0.00013	-0.00021	0.00001
510	0.180460	0.113653	-0.143353	-0.00037	0.00013	0.00001
	0.172658	0.141355	-0.141633	-0.00043	0.00012	-0.00001
	0.157336	-0.031298	-0.156095	-0.00006	0.00011	-0.00005
	0.149534	-0.003596	-0.154374	-0.00012	0.00010	-0.00007
	0.190755	0.078512	-0.145130	-0.00030	0.00014	0.00004
	0.182953	0.106215	-0.143409	-0.00036	0.00013	0.00001
	0.167631	-0.066439	-0.157872	0.00002	0.00012	-0.00003
	0.159829	-0.038736	-0.156151	-0.00004	0.00011	-0.00005
	-0.156058	0.072746	-0.199271	-0.00027	-0.00025	0.00004
	-0.163861	0.100448	-0.197550	-0.00033	-0.00026	0.00002
	-0.179182	-0.072205	-0.212012	0.00004	-0.00028	-0.00002
	-0.186985	-0.044503	-0.210292	-0.00002	-0.00029	-0.00004
	-0.145763	0.037605	-0.201047	-0.00020	-0.00025	0.00007
	-0.153565	0.065307	-0.199327	-0.00026	-0.00025	0.00005
	-0.168887	-0.107346	-0.213789	0.00012	-0.00027	0.00001
	-0.176689	-0.079644	-0.212068	0.00006	-0.00028	-0.00001
511	0.180510	0.101823	-0.115677	-0.00002	0.00034	0.00002
	0.172710	0.121289	-0.114803	-0.00006	0.00032	0.00000
	0.157391	-0.031022	-0.125432	0.00023	0.00030	-0.00004
	0.149591	-0.011556	-0.124558	0.00019	0.00029	-0.00006
	0.190803	0.077360	-0.116600	0.00003	0.00035	0.00005
	0.183002	0.096826	-0.115726	-0.00002	0.00034	0.00003
	0.167684	-0.055485	-0.126355	0.00028	0.00031	-0.00001
	0.159884	-0.036019	-0.125481	0.00024	0.00030	-0.00003
	-0.156044	0.074742	-0.161731	-0.00016	-0.00024	0.00007
	-0.163845	0.094208	-0.160857	-0.00020	-0.00025	0.00005
	-0.179163	-0.058103	-0.171486	0.00009	-0.00028	0.00001
	-0.186963	-0.038638	-0.170612	0.00005	-0.00029	-0.00001
	-0.145752	0.050279	-0.162654	-0.00011	-0.00023	0.00009
	-0.153552	0.069744	-0.161780	-0.00015	-0.00024	0.00007
	-0.168870	-0.082567	-0.172410	0.00014	-0.00026	0.00003
	-0.176670	-0.063101	-0.171535	0.00010	-0.00027	0.00001
512	0.180522	0.092202	-0.105236	0.00020	-0.00033	-0.00013
	0.172722	0.103835	-0.103448	0.00018	-0.00033	-0.00016
	0.157404	-0.032523	-0.127837	0.00036	-0.00029	-0.00007
	0.149604	-0.020890	-0.126049	0.00035	-0.00029	-0.00009
	0.190814	0.077895	-0.107419	0.00022	-0.00033	-0.00011
	0.183013	0.089528	-0.105630	0.00020	-0.00033	-0.00013
	0.167696	-0.046830	-0.130020	0.00038	-0.00029	-0.00004
	0.159896	-0.035197	-0.128232	0.00037	-0.00029	-0.00006
	-0.156010	0.078304	-0.121702	0.00021	-0.00022	-0.00009
	-0.163810	0.089937	-0.119914	0.00020	-0.00022	-0.00011
	-0.179128	-0.046421	-0.144304	0.00037	-0.00018	-0.00002
	-0.186928	-0.034788	-0.142515	0.00036	-0.00018	-0.00004
	-0.145718	0.063996	-0.123885	0.00023	-0.00022	-0.00006
	-0.153519	0.075629	-0.122097	0.00021	-0.00022	-0.00008
	-0.168836	-0.060728	-0.146486	0.00039	-0.00018	0.00001
	-0.176636	-0.049095	-0.144698	0.00038	-0.00018	-0.00001
513	0.180533	0.089003	-0.168552	-0.00029	0.00027	-0.00002
	0.172733	0.097485	-0.164504	-0.00030	0.00026	-0.00004
	0.157415	-0.033562	-0.190860	-0.00006	0.00032	-0.00008
	0.149615	-0.025080	-0.186812	-0.00008	0.00031	-0.00010
	0.190825	0.087871	-0.173648	-0.00027	0.00029	0.00001
	0.183025	0.087263	-0.169600	-0.00028	0.00027	-0.00001
	0.167707	-0.043784	-0.195957	-0.00004	0.00034	-0.00005
	0.159907	-0.035302	-0.191908	-0.00006	0.00033	-0.00007
	-0.156022	0.080244	-0.067408	-0.00012	-0.00024	0.00005
	-0.163822	0.088726	-0.063360	-0.00014	-0.00025	0.00003
	-0.179140	-0.042321	-0.089716	0.00010	-0.00019	-0.00001
	-0.186940	-0.033839	-0.085668	0.00009	-0.00020	-0.00003
	-0.145730	0.070021	-0.072505	-0.00011	-0.00022	0.00008

	-0.153530	0.078503	-0.068456	-0.00012	-0.00024	0.00006
	-0.168848	-0.052543	-0.094813	0.00012	-0.00017	0.00001
	-0.176648	-0.044061	-0.090765	0.00010	-0.00018	-0.00001
514	0.180528	0.082613	-0.190127	-0.00008	0.00042	0.00002
	0.172728	0.084381	-0.189385	-0.00008	0.00041	0.00000
	0.157411	-0.037671	-0.194495	0.00006	0.00038	-0.00004
	0.149611	-0.035903	-0.193753	0.00006	0.00037	-0.00006
	0.190821	0.081087	-0.191053	-0.00008	0.00043	0.00005
	0.183021	0.082855	-0.190311	-0.00008	0.00042	0.00003
	0.167704	-0.039197	-0.195421	0.00007	0.00039	-0.00001
	0.159904	-0.037429	-0.194679	0.00006	0.00038	-0.00003
	-0.156041	0.086218	-0.165944	-0.00006	-0.00014	0.00005
	-0.163841	0.087986	-0.165203	-0.00006	-0.00015	0.00003
	-0.179157	-0.034066	-0.170312	0.00009	-0.00018	-0.00001
	-0.186958	-0.032298	-0.169571	0.00008	-0.00019	-0.00003
	-0.145748	0.084692	-0.166870	-0.00005	-0.00013	0.00008
	-0.153548	0.086460	-0.166129	-0.00006	-0.00014	0.00006
	-0.168865	-0.035592	-0.171238	0.00009	-0.00017	0.00002
	-0.176665	-0.033824	-0.170497	0.00009	-0.00018	0.00000
515	0.180513	0.077618	-0.207833	-0.00017	0.00034	0.00001
	0.172713	0.069931	-0.207643	-0.00016	0.00033	-0.00001
	0.157397	-0.044989	-0.213696	0.00003	0.00030	-0.00005
	0.149597	-0.052676	-0.213507	0.00004	0.00028	-0.00007
	0.190806	0.088346	-0.208236	-0.00019	0.00037	0.00004
	0.183006	0.080659	-0.208047	-0.00018	0.00035	0.00002
	0.167690	-0.034261	-0.214099	0.00001	0.00032	-0.00002
	0.159890	-0.041948	-0.213910	0.00002	0.00030	-0.00004
	-0.156041	0.096199	-0.185910	-0.00024	-0.00034	0.00005
	-0.163841	0.088512	-0.185721	-0.00023	-0.00035	0.00003
	-0.179157	-0.026408	-0.191773	-0.00004	-0.00039	-0.00001
	-0.186957	-0.034095	-0.191584	-0.00003	-0.00040	-0.00003
	-0.145748	0.106926	-0.186313	-0.00026	-0.00032	0.00008
	-0.153548	0.099239	-0.186124	-0.00025	-0.00033	0.00006
	-0.168864	-0.015681	-0.192176	-0.00006	-0.00037	0.00002
	-0.176664	-0.023368	-0.191987	-0.00004	-0.00038	0.00000
516	0.180499	0.075430	-0.210789	-0.00017	0.00034	0.00001
	0.172699	0.058898	-0.211508	-0.00014	0.00033	-0.00001
	0.157384	-0.054898	-0.218860	0.00005	0.00029	-0.00005
	0.149584	-0.071430	-0.219579	0.00007	0.00028	-0.00007
	0.190793	0.097619	-0.210129	-0.00020	0.00036	0.00004
	0.182993	0.081087	-0.210847	-0.00017	0.00035	0.00002
	0.167677	-0.032709	-0.218200	0.00001	0.00031	-0.00002
	0.159878	-0.049241	-0.218918	0.00004	0.00030	-0.00004
	-0.156041	0.108622	-0.198140	-0.00024	-0.00032	0.00005
	-0.163840	0.092090	-0.198858	-0.00021	-0.00033	0.00003
	-0.179156	-0.021706	-0.206211	-0.00003	-0.00037	-0.00001
	-0.186956	-0.038238	-0.206929	0.00000	-0.00038	-0.00003
	-0.145747	0.130810	-0.197480	-0.00028	-0.00030	0.00008
	-0.153547	0.114278	-0.198198	-0.00025	-0.00031	0.00006
	-0.168863	0.000482	-0.205551	-0.00006	-0.00035	0.00002
	-0.176662	-0.016050	-0.206269	-0.00004	-0.00036	0.00000
517	0.180494	0.075367	-0.210365	-0.00015	0.00037	0.00002
	0.172694	0.050602	-0.212212	-0.00010	0.00035	0.00000
	0.157379	-0.066206	-0.221378	0.00008	0.00032	-0.00005
	0.149580	-0.090971	-0.223225	0.00013	0.00030	-0.00007
	0.190787	0.108233	-0.208340	-0.00020	0.00039	0.00004
	0.182987	0.083467	-0.210187	-0.00016	0.00037	0.00002
	0.167672	-0.033340	-0.219353	0.00003	0.00034	-0.00002
	0.159873	-0.058105	-0.221200	0.00007	0.00032	-0.00004
	-0.156042	0.122245	-0.202400	-0.00024	-0.00029	0.00005
	-0.163842	0.097479	-0.204247	-0.00020	-0.00031	0.00003
	-0.179157	-0.019328	-0.213413	-0.00001	-0.00034	-0.00001
	-0.186956	-0.044094	-0.215260	0.00003	-0.00036	-0.00003
	-0.145749	0.155111	-0.200376	-0.00029	-0.00027	0.00008
	-0.153549	0.130345	-0.202223	-0.00025	-0.00029	0.00006
	-0.168864	0.013538	-0.211388	-0.00006	-0.00032	0.00002
	-0.176663	-0.011228	-0.213236	-0.00002	-0.00034	0.00000
518	0.180493	0.077040	-0.210368	-0.00013	0.00036	0.00002
	0.172694	0.043430	-0.214074	-0.00008	0.00035	0.00000
	0.157379	-0.079980	-0.227120	0.00013	0.00032	-0.00005
	0.149580	-0.113590	-0.230826	0.00018	0.00030	-0.00007
	0.190785	0.121362	-0.206084	-0.00020	0.00038	0.00004
	0.182986	0.087753	-0.209790	-0.00015	0.00037	0.00002
	0.167671	-0.035658	-0.222836	0.00006	0.00034	-0.00002
	0.159872	-0.069268	-0.226543	0.00011	0.00032	-0.00004
	-0.156046	0.138546	-0.199900	-0.00026	-0.00031	0.00005
	-0.163845	0.104937	-0.203607	-0.00021	-0.00032	0.00003
	-0.179159	-0.018474	-0.216652	0.00000	-0.00035	-0.00001
	-0.186959	-0.052084	-0.220359	0.00005	-0.00037	-0.00003
	-0.145754	0.182869	-0.195616	-0.00033	-0.00029	0.00008
	-0.153553	0.149259	-0.199323	-0.00028	-0.00030	0.00006
	-0.168867	0.025849	-0.212368	-0.00007	-0.00033	0.00002
	-0.176666	-0.007761	-0.216075	-0.00002	-0.00035	0.00000



519	0.180498	0.080068	-0.212886	-0.00021	0.00028	0.00001
	0.172700	0.037620	-0.219607	-0.00014	0.00026	-0.00001
	0.157386	-0.094967	-0.240114	0.00008	0.00023	-0.00005
	0.149588	-0.137415	-0.246834	0.00016	0.00022	-0.00007
	0.190789	0.135835	-0.204918	-0.00030	0.00029	0.00003
	0.182991	0.093387	-0.211639	-0.00023	0.00028	0.00001
	0.167677	-0.039200	-0.232146	-0.00001	0.00025	-0.00003
	0.159879	-0.081649	-0.238866	0.00007	0.00023	-0.00005
	-0.156053	0.156106	-0.184068	-0.00041	-0.00037	0.00005
	-0.163852	0.113658	-0.190788	-0.00034	-0.00039	0.00003
	-0.179165	-0.018930	-0.211295	-0.00012	-0.00042	-0.00001
	-0.186964	-0.061378	-0.218016	-0.00005	-0.00043	-0.00003
	-0.145762	0.211873	-0.176100	-0.00050	-0.00036	0.00007
	-0.153561	0.169424	-0.182821	-0.00043	-0.00037	0.00005
	-0.168874	0.036837	-0.203328	-0.00021	-0.00040	0.00001
	-0.176673	-0.005611	-0.210048	-0.00014	-0.00042	-0.00001
520	0.180479	0.083067	-0.219228	-0.00029	0.00025	0.00002
	0.172680	0.033813	-0.228874	-0.00017	0.00024	0.00000
	0.157365	-0.107168	-0.257275	0.00017	0.00022	-0.00003
	0.149566	-0.156422	-0.266922	0.00029	0.00021	-0.00005
	0.190772	0.147662	-0.207655	-0.00044	0.00026	0.00004
	0.182973	0.098408	-0.217301	-0.00032	0.00025	0.00003
	0.167658	-0.042573	-0.245702	0.00002	0.00023	-0.00001
	0.159859	-0.091828	-0.255349	0.00014	0.00022	-0.00003
	-0.156042	0.170230	-0.151936	-0.00052	-0.00033	0.00005
	-0.163842	0.120976	-0.161582	-0.00040	-0.00034	0.00003
	-0.179156	-0.020005	-0.189983	-0.00006	-0.00036	0.00000
	-0.186956	-0.069260	-0.199630	0.00006	-0.00037	-0.00002
	-0.145750	0.234824	-0.140363	-0.00067	-0.00031	0.00007
	-0.153549	0.185570	-0.150009	-0.00055	-0.00032	0.00006
	-0.168864	0.044589	-0.178410	-0.00021	-0.00035	0.00002
	-0.176663	-0.004665	-0.188056	-0.00009	-0.00036	0.00000
521	0.177591	0.097489	-0.077530	-0.00024	0.00041	0.00001
	0.173157	0.113588	-0.076092	-0.00028	0.00040	-0.00001
	0.164451	-0.031425	-0.096446	0.00006	0.00038	-0.00005
	0.160016	-0.015325	-0.095008	0.00002	0.00037	-0.00007
	0.183517	0.077391	-0.079142	-0.00019	0.00043	0.00003
	0.179083	0.093490	-0.077704	-0.00023	0.00042	0.00001
	0.170377	-0.051523	-0.098058	0.00011	0.00039	-0.00002
	0.165943	-0.035423	-0.096620	0.00007	0.00038	-0.00005
	-0.163971	0.075977	-0.164393	-0.00018	-0.00038	0.00005
	-0.168405	0.092077	-0.162955	-0.00022	-0.00039	0.00003
	-0.177111	-0.052936	-0.183309	0.00012	-0.00041	-0.00001
	-0.181545	-0.036837	-0.181871	0.00008	-0.00043	-0.00003
	-0.158044	0.055879	-0.166005	-0.00013	-0.00037	0.00008
	-0.162478	0.071979	-0.164567	-0.00017	-0.00038	0.00006
	-0.171184	-0.073034	-0.184921	0.00017	-0.00040	0.00002
	-0.175618	-0.056935	-0.183483	0.00013	-0.00041	0.00000
522	0.177595	0.094750	-0.116709	-0.00022	0.00037	0.00001
	0.173161	0.108710	-0.114707	-0.00026	0.00036	-0.00001
	0.164455	-0.031983	-0.135978	0.00007	0.00036	-0.00005
	0.160021	-0.018023	-0.133976	0.00003	0.00036	-0.00007
	0.183521	0.077427	-0.119015	-0.00018	0.00037	0.00004
	0.179087	0.091386	-0.117012	-0.00021	0.00037	0.00002
	0.170381	-0.049306	-0.138284	0.00011	0.00036	-0.00002
	0.165947	-0.035346	-0.136282	0.00007	0.00036	-0.00004
	-0.163967	0.077087	-0.124274	-0.00019	-0.00037	0.00005
	-0.168401	0.091046	-0.122271	-0.00022	-0.00038	0.00003
	-0.177107	-0.049646	-0.143543	0.00010	-0.00038	-0.00001
	-0.181541	-0.035686	-0.141541	0.00006	-0.00038	-0.00003
	-0.158041	0.059763	-0.126580	-0.00015	-0.00037	0.00008
	-0.162475	0.073723	-0.124577	-0.00018	-0.00037	0.00006
	-0.171181	-0.066969	-0.145849	0.00014	-0.00038	0.00002
	-0.175615	-0.053010	-0.143847	0.00010	-0.00038	0.00000
523	0.177599	0.092420	-0.155779	-0.00021	0.00043	0.00002
	0.173164	0.104246	-0.153180	-0.00023	0.00041	0.00000
	0.164456	-0.032468	-0.175970	0.00006	0.00038	-0.00005
	0.160022	-0.020641	-0.173371	0.00004	0.00037	-0.00007
	0.183526	0.077860	-0.158814	-0.00018	0.00044	0.00005
	0.179091	0.089687	-0.156215	-0.00020	0.00043	0.00002
	0.170383	-0.047027	-0.179005	0.00009	0.00040	-0.00002
	0.165949	-0.035200	-0.176406	0.00007	0.00039	-0.00004
	-0.163969	0.078215	-0.084143	-0.00017	-0.00035	0.00005
	-0.168404	0.090042	-0.081544	-0.00019	-0.00036	0.00003
	-0.177112	-0.046672	-0.104334	0.00010	-0.00039	-0.00001
	-0.181546	-0.034845	-0.101735	0.00008	-0.00040	-0.00003
	-0.158042	0.063656	-0.087178	-0.00014	-0.00033	0.00008
	-0.162477	0.075483	-0.084579	-0.00016	-0.00034	0.00006
	-0.171185	-0.061231	-0.107369	0.00013	-0.00037	0.00002
	-0.175620	-0.049404	-0.104770	0.00010	-0.00039	0.00000
524	0.175934	0.097245	-0.099086	-0.00021	0.00038	0.00003
	0.173378	0.113337	-0.100563	-0.00024	0.00037	0.00001

	0.168344	-0.031624	-0.092167	0.00006	0.00036	-0.00003
	0.165788	-0.015531	-0.093643	0.00003	0.00035	-0.00005
	0.179425	0.077157	-0.097242	-0.00017	0.00039	0.00005
	0.176869	0.093249	-0.098719	-0.00020	0.00038	0.00003
	0.171836	-0.051712	-0.090322	0.00009	0.00036	-0.00001
	0.169280	-0.035619	-0.091799	0.00006	0.00036	-0.00003
	-0.168451	0.076038	-0.179571	-0.00013	-0.00038	0.00005
	-0.171007	0.092131	-0.181048	-0.00016	-0.00038	0.00003
	-0.176041	-0.052830	-0.172652	0.00014	-0.00040	-0.00001
	-0.178597	-0.036738	-0.174129	0.00011	-0.00040	-0.00003
	-0.164960	0.055950	-0.177727	-0.00009	-0.00037	0.00008
	-0.167516	0.072043	-0.179204	-0.00013	-0.00037	0.00006
	-0.172549	-0.072918	-0.170807	0.00017	-0.00039	0.00002
	-0.175105	-0.056826	-0.172284	0.00014	-0.00039	0.00000
525	0.175727	0.092911	-0.173710	-0.00021	0.00036	0.00001
	0.173170	0.104748	-0.173918	-0.00024	0.00034	-0.00001
	0.168134	-0.032010	-0.169094	0.00006	0.00040	-0.00004
	0.165576	-0.020173	-0.169302	0.00003	0.00039	-0.00006
	0.179220	0.078342	-0.173436	-0.00017	0.00037	0.00004
	0.176662	0.090179	-0.173644	-0.00020	0.00036	0.00002
	0.171627	-0.046579	-0.168820	0.00010	0.00041	-0.00002
	0.169069	-0.034741	-0.169028	0.00007	0.00040	-0.00004
	-0.168424	0.078229	-0.100040	-0.00014	-0.00034	0.00005
	-0.170982	0.090066	-0.100248	-0.00018	-0.00035	0.00003
	-0.176017	-0.046691	-0.095425	0.00013	-0.00030	-0.00001
	-0.178575	-0.034854	-0.095632	0.00009	-0.00031	-0.00003
	-0.164931	0.063660	-0.099766	-0.00011	-0.00032	0.00008
	-0.167489	0.075498	-0.099974	-0.00014	-0.00034	0.00006
	-0.172525	-0.061260	-0.095151	0.00016	-0.00028	0.00002
	-0.175082	-0.049423	-0.095359	0.00013	-0.00030	0.00000
526	0.174943	0.102637	-0.053681	-0.00031	0.00027	0.00004
	0.173056	0.122082	-0.057197	-0.00031	0.00026	0.00002
	0.169322	-0.030091	-0.036053	-0.00025	0.00025	-0.00002
	0.167435	-0.010646	-0.039570	-0.00025	0.00025	-0.00005
	0.177566	0.078205	-0.049378	-0.00030	0.00028	0.00007
	0.175679	0.097650	-0.052894	-0.00031	0.00027	0.00005
	0.171944	-0.054523	-0.031751	-0.00025	0.00026	0.00001
	0.170058	-0.035078	-0.035267	-0.00025	0.00025	-0.00002
	-0.170006	0.074640	-0.246758	0.00002	-0.00031	0.00002
	-0.171892	0.094085	-0.250275	0.00002	-0.00032	0.00000
	-0.175627	-0.058087	-0.229131	0.00008	-0.00033	-0.00004
	-0.177513	-0.038642	-0.232647	0.00007	-0.00034	-0.00007
	-0.167383	0.050208	-0.242455	0.00002	-0.00031	0.00005
	-0.169270	0.069653	-0.245972	0.00002	-0.00031	0.00003
	-0.173004	-0.082519	-0.224828	0.00008	-0.00032	-0.00001
	-0.174891	-0.063074	-0.228344	0.00008	-0.00033	-0.00004
527	0.174999	0.097228	-0.106179	-0.00021	0.00035	0.00002
	0.173111	0.113322	-0.108700	-0.00025	0.00034	0.00000
	0.169373	-0.031643	-0.090459	0.00007	0.00037	-0.00004
	0.167485	-0.015550	-0.092979	0.00004	0.00036	-0.00006
	0.177623	0.077140	-0.103109	-0.00018	0.00036	0.00005
	0.175735	0.093233	-0.105630	-0.00021	0.00035	0.00003
	0.171997	-0.051732	-0.087389	0.00011	0.00038	-0.00001
	0.170109	-0.035639	-0.089909	0.00008	0.00037	-0.00003
	-0.169998	0.076044	-0.184709	-0.00018	-0.00040	0.00005
	-0.171886	0.092137	-0.187230	-0.00021	-0.00041	0.00003
	-0.175623	-0.052828	-0.168989	0.00010	-0.00038	-0.00001
	-0.177511	-0.036735	-0.171509	0.00007	-0.00039	-0.00003
	-0.167374	0.055955	-0.181639	-0.00014	-0.00039	0.00007
	-0.169262	0.072049	-0.184160	-0.00018	-0.00040	0.00005
	-0.172999	-0.072916	-0.165919	0.00014	-0.00037	0.00001
	-0.174887	-0.056823	-0.168439	0.00011	-0.00038	-0.00001
528	0.172191	0.097232	-0.119151	-0.00031	0.00033	0.00001
	0.171513	0.113324	-0.123541	-0.00034	0.00033	-0.00001
	0.174369	-0.031636	-0.087345	-0.00008	0.00031	-0.00005
	0.173690	-0.015544	-0.091735	-0.00010	0.00031	-0.00007
	0.173249	0.077145	-0.113862	-0.00027	0.00033	0.00004
	0.172570	0.093237	-0.118252	-0.00030	0.00033	0.00002
	0.175427	-0.051723	-0.082057	-0.00004	0.00031	-0.00002
	0.174748	-0.035631	-0.086446	-0.00007	0.00031	-0.00004
	-0.175037	0.076047	-0.194012	-0.00018	-0.00038	0.00005
	-0.175716	0.092139	-0.198402	-0.00021	-0.00038	0.00003
	-0.172860	-0.052821	-0.162206	0.00005	-0.00039	-0.00001
	-0.173538	-0.036729	-0.166596	0.00002	-0.00040	-0.00003
	-0.173980	0.055959	-0.188723	-0.00015	-0.00037	0.00008
	-0.174658	0.072051	-0.193113	-0.00018	-0.00038	0.00006
	-0.171802	-0.072909	-0.156918	0.00009	-0.00039	0.00002
	-0.172481	-0.056817	-0.161307	0.00006	-0.00039	0.00000
529	0.172183	0.094730	-0.156566	-0.00024	0.00042	0.00002
	0.171505	0.108689	-0.160231	-0.00027	0.00041	0.00000
	0.174355	-0.032004	-0.126302	0.00001	0.00039	-0.00004
	0.173678	-0.018045	-0.129967	-0.00002	0.00039	-0.00006
	0.173239	0.077408	-0.152178	-0.00021	0.00042	0.00004

	0.172561	0.091367	-0.155843	-0.00024	0.00042	0.00002
	0.175411	-0.049327	-0.121914	0.00005	0.00040	-0.00002
	0.174734	-0.035367	-0.125579	0.00002	0.00040	-0.00004
	-0.175028	0.077060	-0.152734	-0.00022	-0.00047	0.00005
	-0.175705	0.091019	-0.156399	-0.00025	-0.00048	0.00003
	-0.172855	-0.049675	-0.122470	0.00004	-0.00050	-0.00001
	-0.173532	-0.035715	-0.126135	0.00001	-0.00050	-0.00003
	-0.173972	0.059738	-0.148346	-0.00019	-0.00047	0.00007
	-0.174649	0.073697	-0.152011	-0.00022	-0.00047	0.00005
	-0.171799	-0.066997	-0.118082	0.00007	-0.00049	0.00001
	-0.172476	-0.053038	-0.121747	0.00004	-0.00050	-0.00001
530	0.172176	0.092415	-0.193554	-0.00019	0.00031	0.00002
	0.171499	0.104241	-0.196484	-0.00021	0.00030	-0.00001
	0.174347	-0.032472	-0.164772	0.00005	0.00035	-0.00005
	0.173670	-0.020646	-0.167702	0.00003	0.00034	-0.00007
	0.173231	0.077856	-0.190067	-0.00016	0.00032	0.00004
	0.172555	0.089682	-0.192997	-0.00018	0.00031	0.00002
	0.175402	-0.047030	-0.161285	0.00008	0.00036	-0.00002
	0.174725	-0.035204	-0.164215	0.00006	0.00035	-0.00004
	-0.175023	0.078217	-0.115343	-0.00026	-0.00024	0.00005
	-0.175700	0.090043	-0.118273	-0.00028	-0.00025	0.00003
	-0.172853	-0.046669	-0.086561	-0.00002	-0.00020	-0.00001
	-0.173530	-0.034843	-0.089491	-0.00004	-0.00021	-0.00003
	-0.173968	0.063659	-0.111856	-0.00023	-0.00023	0.00008
	-0.174645	0.075484	-0.114786	-0.00025	-0.00024	0.00006
	-0.171797	-0.061228	-0.083074	0.00001	-0.00019	0.00002
	-0.172474	-0.049402	-0.086004	-0.00001	-0.00020	0.00000
531	0.171973	0.089260	-0.247884	0.00013	0.00030	0.00001
	0.171285	0.097725	-0.248978	0.00011	0.00028	-0.00001
	0.174155	-0.033484	-0.225261	0.00024	0.00036	-0.00005
	0.173468	-0.025018	-0.226355	0.00022	0.00034	-0.00007
	0.173036	0.079064	-0.246570	0.00015	0.00031	0.00004
	0.172349	0.087530	-0.247664	0.00014	0.00030	0.00002
	0.175219	-0.043680	-0.223947	0.00026	0.00038	-0.00002
	0.174531	-0.035214	-0.225041	0.00024	0.00036	-0.00004
	-0.175060	0.079486	-0.084216	-0.00041	-0.00010	0.00006
	-0.175747	0.087952	-0.085310	-0.00043	-0.00012	0.00004
	-0.172877	-0.043258	-0.061593	-0.00031	-0.00004	0.00000
	-0.173565	-0.034792	-0.062687	-0.00032	-0.00006	-0.00002
	-0.173996	0.069290	-0.082901	-0.00039	-0.00009	0.00009
	-0.174684	0.077756	-0.083996	-0.00041	-0.00010	0.00006
	-0.171814	-0.053453	-0.060279	-0.00028	-0.00003	0.00002
	-0.172502	-0.044987	-0.061373	-0.00030	-0.00004	0.00000
532	0.172978	0.128837	-0.203270	-0.00026	0.00054	0.00000
	0.173305	0.165992	-0.203147	-0.00034	0.00054	-0.00002
	0.174373	-0.033472	-0.204784	0.00007	0.00053	-0.00006
	0.174700	0.003683	-0.204662	-0.00001	0.00053	-0.00008
	0.172729	0.081437	-0.203378	-0.00017	0.00054	0.00003
	0.173056	0.118592	-0.203256	-0.00025	0.00054	0.00001
	0.174123	-0.080872	-0.204893	0.00016	0.00053	-0.00003
	0.174451	-0.043717	-0.204770	0.00009	0.00053	-0.00005
	-0.175523	0.072148	-0.247916	-0.00013	-0.00004	0.00004
	-0.175195	0.109303	-0.247794	-0.00021	-0.00003	0.00002
	-0.174128	-0.090161	-0.249431	0.00020	-0.00004	-0.00002
	-0.173800	-0.053006	-0.249309	0.00012	-0.00004	-0.00004
	-0.175772	0.024748	-0.248025	-0.00004	-0.00004	0.00006
	-0.175444	0.061903	-0.247902	-0.00011	-0.00004	0.00004
	-0.174377	-0.137561	-0.249539	0.00030	-0.00005	0.00000
	-0.174050	-0.100406	-0.249417	0.00022	-0.00005	-0.00002
533	0.172940	0.113556	-0.212263	-0.00015	0.00005	0.00002
	0.173269	0.141258	-0.213269	-0.00021	0.00005	0.00000
	0.174343	-0.031392	-0.207638	0.00011	0.00004	-0.00004
	0.174672	-0.003691	-0.208643	0.00006	0.00004	-0.00006
	0.172689	0.078418	-0.211068	-0.00009	0.00004	0.00004
	0.173018	0.106120	-0.212074	-0.00014	0.00004	0.00002
	0.174092	-0.066531	-0.206443	0.00018	0.00003	-0.00002
	0.174421	-0.038829	-0.207448	0.00013	0.00004	-0.00004
	-0.175508	0.072695	-0.248216	-0.00006	-0.00028	0.00005
	-0.175179	0.100396	-0.249222	-0.00011	-0.00028	0.00003
	-0.174105	-0.072254	-0.243591	0.00021	-0.00029	-0.00001
	-0.173776	-0.044552	-0.244596	0.00016	-0.00029	-0.00003
	-0.175758	0.037556	-0.247021	0.00001	-0.00028	0.00008
	-0.175429	0.065258	-0.248027	-0.00004	-0.00028	0.00006
	-0.174356	-0.107392	-0.242396	0.00028	-0.00029	0.00002
	-0.174027	-0.079691	-0.243401	0.00022	-0.00029	0.00000
534	0.173161	0.101535	-0.117846	-0.00048	0.00001	0.00001
	0.173489	0.120990	-0.122090	-0.00051	0.00002	-0.00001
	0.174565	-0.031276	-0.090652	-0.00026	-0.00012	-0.00005
	0.174893	-0.011821	-0.094896	-0.00029	-0.00010	-0.00007
	0.172911	0.077078	-0.112754	-0.00044	-0.00001	0.00003
	0.173240	0.096533	-0.116998	-0.00047	0.00000	0.00001
	0.174315	-0.055734	-0.085559	-0.00023	-0.00014	-0.00003
	0.174643	-0.036278	-0.089804	-0.00026	-0.00012	-0.00005

	-0.175526	0.074786	-0.238371	-0.00007	-0.00008	0.00005
	-0.175197	0.094241	-0.242616	-0.00010	-0.00006	0.00004
	-0.174122	-0.058025	-0.211177	0.00014	-0.00020	0.00000
	-0.173793	-0.038570	-0.215421	0.00011	-0.00019	-0.00002
	-0.175776	0.050329	-0.233279	-0.00004	-0.00010	0.00008
	-0.175447	0.069784	-0.237523	-0.00007	-0.00008	0.00006
	-0.174372	-0.082483	-0.206085	0.00018	-0.00022	0.00002
	-0.174043	-0.063028	-0.210329	0.00015	-0.00021	0.00000
535	0.173159	0.088968	-0.240022	-0.00004	0.00020	0.00002
	0.173490	0.097442	-0.242032	-0.00006	0.00019	-0.00001
	0.174568	-0.033611	-0.212356	0.00012	0.00030	-0.00005
	0.174898	-0.025137	-0.214366	0.00011	0.00028	-0.00007
	0.172908	0.078750	-0.237627	-0.00002	0.00022	0.00004
	0.173239	0.087224	-0.239637	-0.00004	0.00021	0.00002
	0.174317	-0.043829	-0.209961	0.00014	0.00032	-0.00002
	0.174647	-0.035355	-0.211971	0.00013	0.00030	-0.00004
	-0.175511	0.080189	-0.111777	-0.00042	-0.00005	0.00005
	-0.175180	0.088663	-0.113787	-0.00044	-0.00006	0.00002
	-0.174102	-0.042390	-0.084110	-0.00026	0.00005	-0.00002
	-0.173772	-0.033916	-0.086121	-0.00028	0.00003	-0.00004
	-0.175762	0.069971	-0.109382	-0.00041	-0.00003	0.00007
	-0.175431	0.078445	-0.111392	-0.00042	-0.00004	0.00005
	-0.174353	-0.052608	-0.081715	-0.00024	0.00007	0.00001
	-0.174022	-0.044134	-0.083726	-0.00026	0.00005	-0.00001
536	0.173149	0.082609	-0.243526	-0.00016	0.00037	0.00002
	0.173480	0.084375	-0.243604	-0.00017	0.00037	-0.00001
	0.174560	-0.037678	-0.238122	0.00008	0.00039	-0.00005
	0.174891	-0.035911	-0.238200	0.00008	0.00039	-0.00007
	0.172896	0.081082	-0.243422	-0.00016	0.00037	0.00004
	0.173227	0.082849	-0.243501	-0.00016	0.00037	0.00002
	0.174307	-0.039204	-0.238019	0.00009	0.00039	-0.00002
	0.174638	-0.037437	-0.238097	0.00008	0.00039	-0.00004
	-0.175501	0.086210	-0.198920	-0.00018	0.00012	0.00005
	-0.175170	0.087976	-0.198998	-0.00018	0.00012	0.00003
	-0.174090	-0.034077	-0.193516	0.00007	0.00014	-0.00001
	-0.173759	-0.032310	-0.193595	0.00007	0.00014	-0.00003
	-0.175753	0.084683	-0.198817	-0.00017	0.00012	0.00008
	-0.175422	0.086450	-0.198895	-0.00018	0.00012	0.00006
	-0.174343	-0.035603	-0.193413	0.00007	0.00014	0.00002
	-0.174011	-0.033837	-0.193491	0.00007	0.00014	0.00000
537	0.173140	0.077635	-0.249137	-0.00016	0.00015	0.00002
	0.173472	0.069947	-0.248782	-0.00014	0.00014	0.00000
	0.174553	-0.044972	-0.247611	0.00009	0.00015	-0.00004
	0.174885	-0.052660	-0.247256	0.00011	0.00015	-0.00006
	0.172887	0.088360	-0.249590	-0.00018	0.00015	0.00004
	0.173219	0.080672	-0.249234	-0.00016	0.00015	0.00002
	0.174300	-0.034247	-0.248064	0.00006	0.00015	-0.00002
	0.174632	-0.041935	-0.247708	0.00008	0.00015	-0.00004
	-0.175497	0.096190	-0.246469	-0.00023	-0.00023	0.00005
	-0.175166	0.088503	-0.246113	-0.00021	-0.00023	0.00003
	-0.174084	-0.026417	-0.244943	0.00002	-0.00023	-0.00001
	-0.173753	-0.034105	-0.244587	0.00004	-0.00023	-0.00003
	-0.175750	0.106915	-0.246921	-0.00025	-0.00023	0.00008
	-0.175419	0.099228	-0.246566	-0.00023	-0.00023	0.00006
	-0.174337	-0.015692	-0.245395	0.00000	-0.00023	0.00002
	-0.174006	-0.023379	-0.245040	0.00001	-0.00023	0.00000
538	0.173140	0.075450	-0.245410	-0.00015	0.00018	0.00001
	0.173472	0.058918	-0.245040	-0.00012	0.00018	-0.00001
	0.174555	-0.054878	-0.243474	0.00009	0.00018	-0.00005
	0.174887	-0.071411	-0.243104	0.00013	0.00018	-0.00007
	0.172884	0.097636	-0.245855	-0.00020	0.00018	0.00004
	0.173216	0.081104	-0.245485	-0.00016	0.00018	0.00002
	0.174299	-0.032692	-0.243919	0.00005	0.00018	-0.00002
	0.174630	-0.049225	-0.243549	0.00009	0.00018	-0.00004
	-0.175494	0.108614	-0.245773	-0.00023	-0.00021	0.00005
	-0.175163	0.092081	-0.245403	-0.00020	-0.00021	0.00003
	-0.174080	-0.021714	-0.243837	0.00001	-0.00021	-0.00001
	-0.173748	-0.038247	-0.243467	0.00005	-0.00021	-0.00003
	-0.175750	0.130800	-0.246218	-0.00028	-0.00021	0.00008
	-0.175419	0.114267	-0.245847	-0.00024	-0.00021	0.00006
	-0.174336	0.000471	-0.244282	-0.00003	-0.00021	0.00002
	-0.174004	-0.016061	-0.243911	0.00000	-0.00021	0.00000
539	0.173137	0.075471	-0.245476	-0.00025	0.00009	0.00002
	0.173469	0.050704	-0.245103	-0.00020	0.00009	-0.00001
	0.174553	-0.066091	-0.243607	0.00001	0.00010	-0.00005
	0.174884	-0.090858	-0.243234	0.00006	0.00010	-0.00007
	0.172881	0.108317	-0.245908	-0.00031	0.00010	0.00004
	0.173212	0.083550	-0.245535	-0.00026	0.00009	0.00002
	0.174296	-0.033245	-0.244039	-0.00005	0.00010	-0.00002
	0.174628	-0.058012	-0.243666	0.00000	0.00010	-0.00004
	-0.175493	0.122205	-0.244569	-0.00036	-0.00028	0.00005
	-0.175161	0.097438	-0.244196	-0.00031	-0.00028	0.00003

	-0.174077	-0.019356	-0.242700	-0.00009	-0.00028	-0.00001
	-0.173746	-0.044123	-0.242327	-0.00004	-0.00028	-0.00003
	-0.175749	0.155051	-0.245000	-0.00042	-0.00028	0.00008
	-0.175418	0.130285	-0.244627	-0.00037	-0.00028	0.00006
	-0.174334	0.013490	-0.243131	-0.00015	-0.00028	0.00002
	-0.174002	-0.011277	-0.242758	-0.00010	-0.00028	0.00000
540	0.173119	0.077153	-0.241785	-0.00036	0.00020	0.00001
	0.173450	0.043545	-0.241448	-0.00029	0.00020	-0.00001
	0.174534	-0.079846	-0.240619	-0.00006	0.00021	-0.00005
	0.174865	-0.113455	-0.240282	0.00001	0.00021	-0.00007
	0.172863	0.121454	-0.242153	-0.00044	0.00021	0.00004
	0.173194	0.087845	-0.241815	-0.00037	0.00020	0.00002
	0.174278	-0.035546	-0.240986	-0.00014	0.00021	-0.00002
	0.174609	-0.069154	-0.240649	-0.00007	0.00021	-0.00004
	-0.175481	0.138498	-0.250983	-0.00050	-0.00016	0.00005
	-0.175150	0.104890	-0.250645	-0.00043	-0.00016	0.00003
	-0.174066	-0.018502	-0.249816	-0.00020	-0.00015	-0.00001
	-0.173735	-0.052110	-0.249479	-0.00013	-0.00015	-0.00003
	-0.175736	0.182798	-0.251350	-0.00058	-0.00016	0.00008
	-0.175405	0.149190	-0.251012	-0.00051	-0.00016	0.00006
	-0.174322	0.025799	-0.250184	-0.00028	-0.00015	0.00002
	-0.173990	-0.007809	-0.249846	-0.00021	-0.00015	0.00000
541	0.173096	0.080019	-0.217330	-0.00020	0.00014	0.00002
	0.173427	0.037569	-0.218179	-0.00012	0.00015	0.00000
	0.174513	-0.095015	-0.222661	0.00015	0.00017	-0.00004
	0.174844	-0.137464	-0.223510	0.00024	0.00017	-0.00006
	0.172840	0.135786	-0.216260	-0.00031	0.00013	0.00004
	0.173171	0.093337	-0.217109	-0.00023	0.00014	0.00002
	0.174257	-0.039247	-0.221590	0.00004	0.00016	-0.00002
	0.174588	-0.081696	-0.222439	0.00013	0.00017	-0.00004
	-0.175463	0.156150	-0.251835	-0.00040	-0.00031	0.00004
	-0.175132	0.113701	-0.252684	-0.00031	-0.00030	0.00002
	-0.174047	-0.018883	-0.257165	-0.00004	-0.00028	-0.00002
	-0.173715	-0.061332	-0.258015	0.00004	-0.00028	-0.00004
	-0.175719	0.211918	-0.250764	-0.00050	-0.00032	0.00007
	-0.175388	0.169469	-0.251613	-0.00042	-0.00031	0.00005
	-0.174303	0.036885	-0.256095	-0.00015	-0.00029	0.00001
	-0.173972	-0.005565	-0.256944	-0.00007	-0.00029	-0.00001
542	0.173097	0.081433	-0.235613	-0.00019	-0.00001	0.00001
	0.173428	0.035837	-0.238574	-0.00007	-0.00001	-0.00001
	0.174512	-0.100510	-0.247368	0.00028	0.00000	-0.00005
	0.174843	-0.146106	-0.250329	0.00040	0.00001	-0.00007
	0.172841	0.141281	-0.232116	-0.00034	-0.00002	0.00004
	0.173172	0.095686	-0.235077	-0.00022	-0.00001	0.00002
	0.174256	-0.040662	-0.243871	0.00013	0.00000	-0.00002
	0.174587	-0.086257	-0.246832	0.00025	0.00000	-0.00004
	-0.175464	0.162552	-0.222921	-0.00046	-0.00012	0.00005
	-0.175133	0.116957	-0.225881	-0.00034	-0.00011	0.00003
	-0.174048	-0.019390	-0.234675	0.00001	-0.00010	-0.00001
	-0.173717	-0.064986	-0.237636	0.00013	-0.00010	-0.00003
	-0.175719	0.222401	-0.219424	-0.00060	-0.00013	0.00007
	-0.175388	0.176805	-0.222384	-0.00048	-0.00012	0.00005
	-0.174304	0.040458	-0.231178	-0.00013	-0.00011	0.00001
	-0.173973	-0.005137	-0.234139	-0.00002	-0.00010	-0.00001
543	0.173098	0.081708	-0.233125	-0.00019	-0.00005	0.00001
	0.173429	0.035605	-0.236112	-0.00007	-0.00004	-0.00001
	0.174513	-0.101371	-0.244896	0.00028	-0.00004	-0.00005
	0.174843	-0.147474	-0.247884	0.00040	-0.00003	-0.00007
	0.172842	0.142213	-0.229603	-0.00034	-0.00005	0.00003
	0.173173	0.096110	-0.232591	-0.00022	-0.00005	0.00001
	0.174257	-0.040866	-0.241375	0.00013	-0.00004	-0.00003
	0.174588	-0.086969	-0.244362	0.00025	-0.00004	-0.00005
	-0.175465	0.163568	-0.221006	-0.00045	-0.00015	0.00004
	-0.175134	0.117465	-0.223994	-0.00033	-0.00015	0.00002
	-0.174050	-0.019511	-0.232778	0.00002	-0.00015	-0.00002
	-0.173719	-0.065613	-0.235766	0.00014	-0.00014	-0.00004
	-0.175720	0.224073	-0.217485	-0.00060	-0.00016	0.00007
	-0.175389	0.177970	-0.220472	-0.00048	-0.00016	0.00005
	-0.174305	0.040994	-0.229256	-0.00012	-0.00015	0.00001
	-0.173974	-0.005108	-0.232244	0.00000	-0.00015	-0.00001
544	0.172560	0.078273	-0.245785	-0.00019	0.00030	-0.00002
	0.172835	0.028577	-0.248775	-0.00008	0.00030	-0.00004
	0.173792	-0.113408	-0.256146	0.00022	0.00028	-0.00009
	0.174067	-0.163104	-0.259136	0.00033	0.00028	-0.00011
	0.172362	0.143422	-0.242102	-0.00032	0.00030	0.00001
	0.172637	0.093726	-0.245091	-0.00021	0.00030	-0.00001
	0.173595	-0.048259	-0.252463	0.00009	0.00028	-0.00006
	0.173870	-0.097956	-0.255453	0.00020	0.00028	-0.00008
	-0.175217	0.172909	-0.175251	-0.00039	-0.00038	0.00008
	-0.174942	0.123213	-0.178241	-0.00028	-0.00038	0.00005
	-0.173984	-0.018772	-0.185612	0.00002	-0.00040	0.00001
	-0.173709	-0.068469	-0.188602	0.00013	-0.00040	-0.00002
	-0.175415	0.238058	-0.171568	-0.00052	-0.00038	0.00011

	-0.175140	0.188361	-0.174558	-0.00042	-0.00038	0.00008
	-0.174182	0.046376	-0.181929	-0.00011	-0.00040	0.00004
	-0.173907	-0.003320	-0.184919	0.00000	-0.00040	0.00001
545	0.162763	0.128905	-0.218754	-0.00006	0.00060	0.00003
	0.175197	0.166064	-0.220854	-0.00014	0.00063	0.00002
	0.199756	-0.033411	-0.203946	0.00027	0.00070	-0.00002
	0.212190	0.003748	-0.206046	0.00020	0.00073	-0.00004
	0.146807	0.081499	-0.216763	0.00004	0.00056	0.00006
	0.159240	0.118658	-0.218864	-0.00004	0.00059	0.00004
	0.183799	-0.080817	-0.201955	0.00037	0.00066	0.00000
	0.196233	-0.043658	-0.204056	0.00029	0.00069	-0.00002
	-0.204055	0.072147	-0.255135	0.00007	-0.00034	0.00006
	-0.191621	0.109306	-0.257236	-0.00001	-0.00031	0.00004
	-0.167062	-0.090169	-0.240327	0.00041	-0.00024	0.00000
	-0.154629	-0.053011	-0.242428	0.00033	-0.00021	-0.00002
	-0.220012	0.024741	-0.253145	0.00017	-0.00038	0.00008
	-0.207578	0.061900	-0.255245	0.00009	-0.00035	0.00006
	-0.183019	-0.137575	-0.238337	0.00050	-0.00028	0.00002
	-0.170586	-0.100416	-0.240437	0.00043	-0.00025	0.00001
546	0.162782	0.113565	-0.228737	-0.00015	0.00027	0.00002
	0.175215	0.141267	-0.229810	-0.00020	0.00030	0.00000
	0.199773	-0.031377	-0.220044	0.00011	0.00035	-0.00004
	0.212206	-0.003675	-0.221117	0.00006	0.00037	-0.00006
	0.146824	0.078423	-0.227795	-0.00009	0.00024	0.00004
	0.159257	0.106125	-0.228868	-0.00014	0.00027	0.00002
	0.183815	-0.066519	-0.219102	0.00018	0.00032	-0.00002
	0.196248	-0.038817	-0.220174	0.00012	0.00034	-0.00004
	-0.204070	0.072724	-0.253152	-0.00007	-0.00046	0.00005
	-0.191636	0.100426	-0.254225	-0.00012	-0.00043	0.00003
	-0.167079	-0.072219	-0.244459	0.00020	-0.00038	-0.00001
	-0.154645	-0.044516	-0.245532	0.00015	-0.00035	-0.00003
	-0.220028	0.037582	-0.252210	0.00000	-0.00049	0.00008
	-0.207594	0.065284	-0.253283	-0.00005	-0.00046	0.00006
	-0.183037	-0.107360	-0.243517	0.00026	-0.00041	0.00002
	-0.170603	-0.079658	-0.244589	0.00021	-0.00039	0.00000
547	0.162752	0.101550	-0.229202	-0.00018	0.00042	0.00001
	0.175182	0.121008	-0.229722	-0.00021	0.00045	-0.00001
	0.199729	-0.031261	-0.224734	0.00007	0.00050	-0.00005
	0.212158	-0.011802	-0.225255	0.00003	0.00053	-0.00007
	0.146798	0.077092	-0.228764	-0.00013	0.00038	0.00004
	0.159228	0.096550	-0.229284	-0.00017	0.00041	0.00002
	0.183775	-0.055718	-0.224296	0.00011	0.00047	-0.00002
	0.196204	-0.036260	-0.224817	0.00007	0.00050	-0.00004
	-0.204038	0.074775	-0.242034	-0.00010	-0.00037	0.00005
	-0.191608	0.094234	-0.242555	-0.00014	-0.00034	0.00003
	-0.167061	-0.058035	-0.237567	0.00014	-0.00028	-0.00002
	-0.154631	-0.038577	-0.238087	0.00011	-0.00026	-0.00004
	-0.219992	0.050317	-0.241596	-0.00005	-0.00040	0.00007
	-0.207562	0.069776	-0.242117	-0.00009	-0.00037	0.00005
	-0.183015	-0.082493	-0.237128	0.00019	-0.00032	0.00001
	-0.170586	-0.063035	-0.237649	0.00015	-0.00029	-0.00001
548	0.162673	0.091267	-0.192376	-0.00033	-0.00124	0.00002
	0.175098	0.102078	-0.191191	-0.00036	-0.00125	-0.00001
	0.199628	-0.032819	-0.196406	-0.00004	-0.00117	-0.00005
	0.212052	-0.022008	-0.195221	-0.00007	-0.00119	-0.00007
	0.146727	0.078023	-0.193511	-0.00030	-0.00121	0.00004
	0.159151	0.088834	-0.192326	-0.00033	-0.00123	0.00002
	0.183682	-0.046063	-0.197541	0.00000	-0.00115	-0.00002
	0.196106	-0.035252	-0.196356	-0.00003	-0.00117	-0.00004
	-0.203975	0.078713	-0.221839	-0.00027	-0.00081	0.00005
	-0.191551	0.089524	-0.220654	-0.00030	-0.00083	0.00003
	-0.167021	-0.045373	-0.225869	0.00003	-0.00075	-0.00001
	-0.154597	-0.034562	-0.224684	0.00000	-0.00077	-0.00003
	-0.219922	0.065469	-0.222973	-0.00024	-0.00079	0.00008
	-0.207497	0.076280	-0.221788	-0.00026	-0.00080	0.00006
	-0.182967	-0.058617	-0.227004	0.00006	-0.00073	0.00002
	-0.170543	-0.047806	-0.225819	0.00003	-0.00074	0.00000
549	0.162672	0.091093	-0.197573	-0.00033	0.00085	0.00001
	0.175096	0.101712	-0.196732	-0.00036	0.00084	-0.00001
	0.199627	-0.032879	-0.200645	-0.00004	0.00125	-0.00005
	0.212051	-0.022261	-0.199804	-0.00006	0.00124	-0.00007
	0.146726	0.078097	-0.198296	-0.00030	0.00086	0.00004
	0.159150	0.088715	-0.197455	-0.00032	0.00086	0.00002
	0.183681	-0.045876	-0.201368	0.00000	0.00127	-0.00002
	0.196105	-0.035257	-0.200527	-0.00003	0.00126	-0.00004
	-0.203974	0.078852	-0.217201	-0.00027	0.00037	0.00005
	-0.191550	0.089470	-0.216360	-0.00029	0.00036	0.00003
	-0.167020	-0.045120	-0.220273	0.00003	0.00078	-0.00001
	-0.154596	-0.034502	-0.219431	0.00000	0.00077	-0.00003
	-0.219920	0.065855	-0.217923	-0.00023	0.00039	0.00007
	-0.207496	0.076474	-0.217082	-0.00026	0.00038	0.00005
	-0.182965	-0.058117	-0.220995	0.00006	0.00079	0.00001
	-0.170542	-0.047499	-0.220154	0.00003	0.00078	-0.00001

550	0.162666	0.088926	-0.247173	-0.00020	0.00011	0.00001
	0.175089	0.097396	-0.250116	-0.00022	0.00008	-0.00001
	0.199617	-0.033655	-0.256102	0.00001	0.00004	-0.00005
	0.212040	-0.025185	-0.259044	0.00000	0.00002	-0.00007
	0.146721	0.078712	-0.243357	-0.00019	0.00014	0.00004
	0.159144	0.087183	-0.246299	-0.00020	0.00011	0.00002
	0.183672	-0.043869	-0.252286	0.00003	0.00007	-0.00003
	0.196095	-0.035398	-0.255228	0.00002	0.00004	-0.00005
	-0.203964	0.080203	-0.158931	-0.00017	0.00071	0.00005
	-0.191541	0.088673	-0.161873	-0.00018	0.00069	0.00003
	-0.167013	-0.042379	-0.167860	0.00005	0.00064	-0.00001
	-0.154590	-0.033908	-0.170802	0.00004	0.00062	-0.00004
	-0.219909	0.069989	-0.155115	-0.00015	0.00074	0.00008
	-0.207486	0.078459	-0.158057	-0.00016	0.00071	0.00006
	-0.182958	-0.052592	-0.164044	0.00007	0.00067	0.00001
	-0.170535	-0.044122	-0.166986	0.00006	0.00064	-0.00001
551	0.162663	0.082593	-0.239268	-0.00011	0.00040	0.00002
	0.175086	0.084358	-0.239900	-0.00011	0.00043	0.00000
	0.199611	-0.037700	-0.242240	0.00002	0.00048	-0.00005
	0.212035	-0.035935	-0.242872	0.00003	0.00051	-0.00007
	0.146718	0.081074	-0.238474	-0.00011	0.00037	0.00004
	0.159142	0.082838	-0.239106	-0.00011	0.00039	0.00002
	0.183666	-0.039219	-0.241446	0.00002	0.00045	-0.00002
	0.196090	-0.037454	-0.242078	0.00002	0.00048	-0.00004
	-0.203973	0.086194	-0.217193	-0.00020	-0.00036	0.00005
	-0.191550	0.087958	-0.217825	-0.00020	-0.00033	0.00003
	-0.167025	-0.034099	-0.220165	-0.00007	-0.00028	-0.00001
	-0.154601	-0.032334	-0.220797	-0.00006	-0.00025	-0.00003
	-0.219918	0.084674	-0.216398	-0.00020	-0.00039	0.00008
	-0.207494	0.086439	-0.217030	-0.00020	-0.00037	0.00006
	-0.182970	-0.035619	-0.219371	-0.00007	-0.00031	0.00001
	-0.170546	-0.033854	-0.220003	-0.00007	-0.00028	-0.00001
552	0.162691	0.077891	-0.189968	-0.00003	-0.00114	0.00002
	0.175118	0.070814	-0.188918	-0.00001	-0.00116	0.00000
	0.199647	-0.044380	-0.194867	0.00014	-0.00120	-0.00004
	0.212074	-0.051457	-0.193816	0.00015	-0.00122	-0.00006
	0.146744	0.087839	-0.191358	-0.00004	-0.00112	0.00004
	0.159171	0.080762	-0.190307	-0.00003	-0.00114	0.00002
	0.183700	-0.034432	-0.196256	0.00012	-0.00118	-0.00002
	0.196127	-0.041509	-0.195206	0.00013	-0.00120	-0.00004
	-0.203998	0.095412	-0.234826	-0.00012	-0.00055	0.00005
	-0.191571	0.088335	-0.233776	-0.00011	-0.00057	0.00003
	-0.167042	-0.026860	-0.239724	0.00004	-0.00061	-0.00001
	-0.154615	-0.033936	-0.238674	0.00005	-0.00062	-0.00003
	-0.219944	0.105360	-0.236216	-0.00014	-0.00053	0.00008
	-0.207518	0.098283	-0.235165	-0.00013	-0.00054	0.00006
	-0.182988	-0.016911	-0.241114	0.00002	-0.00058	0.00002
	-0.170561	-0.023988	-0.240064	0.00004	-0.00060	0.00000
553	0.162694	0.077640	-0.207672	-0.00002	0.00021	0.00002
	0.175121	0.069953	-0.207827	-0.00001	0.00021	0.00000
	0.199650	-0.044969	-0.211738	0.00014	0.00022	-0.00004
	0.212077	-0.052656	-0.211893	0.00015	0.00023	-0.00006
	0.146747	0.088377	-0.207598	-0.00004	0.00021	0.00004
	0.159174	0.080690	-0.207753	-0.00002	0.00021	0.00002
	0.183704	-0.034232	-0.211664	0.00012	0.00022	-0.00002
	0.196131	-0.041918	-0.211819	0.00013	0.00022	-0.00004
	-0.203998	0.096167	-0.218278	-0.00012	-0.00029	0.00005
	-0.191571	0.088480	-0.218433	-0.00011	-0.00029	0.00003
	-0.167042	-0.026442	-0.222344	0.00003	-0.00028	-0.00001
	-0.154615	-0.034129	-0.222499	0.00005	-0.00028	-0.00003
	-0.219945	0.106904	-0.218204	-0.00014	-0.00030	0.00008
	-0.207518	0.099218	-0.218359	-0.00013	-0.00029	0.00006
	-0.182988	-0.015705	-0.222270	0.00002	-0.00029	0.00002
	-0.170561	-0.023391	-0.222425	0.00003	-0.00028	0.00000
554	0.162695	0.077501	-0.217425	-0.00002	0.00004	0.00002
	0.175122	0.069461	-0.218278	-0.00001	0.00009	0.00000
	0.199652	-0.045317	-0.222423	0.00013	0.00033	-0.00004
	0.212079	-0.053357	-0.223276	0.00015	0.00038	-0.00006
	0.146749	0.088685	-0.216504	-0.00004	-0.00002	0.00004
	0.159176	0.080645	-0.217357	-0.00003	0.00003	0.00002
	0.183706	-0.034133	-0.221502	0.00012	0.00027	-0.00002
	0.196133	-0.042173	-0.222355	0.00013	0.00032	-0.00004
	-0.203998	0.096628	-0.208262	-0.00013	-0.00062	0.00005
	-0.191571	0.088587	-0.209115	-0.00011	-0.00057	0.00003
	-0.167041	-0.026190	-0.213260	0.00003	-0.00033	-0.00001
	-0.154614	-0.034230	-0.214113	0.00004	-0.00028	-0.00003
	-0.219945	0.107812	-0.207340	-0.00015	-0.00068	0.00008
	-0.207518	0.099771	-0.208193	-0.00013	-0.00063	0.00006
	-0.182988	-0.015006	-0.212338	0.00001	-0.00039	0.00002
	-0.170561	-0.023046	-0.213191	0.00002	-0.00034	0.00000
555	0.162695	0.077486	-0.218927	-0.00002	0.00069	0.00002
	0.175122	0.069392	-0.219887	-0.00001	0.00067	0.00000

	0.199652	-0.045364	-0.224127	0.00013	0.00063	-0.00004
	0.212079	-0.053458	-0.225087	0.00015	0.00061	-0.00006
	0.146749	0.088737	-0.217875	-0.00004	0.00071	0.00004
	0.159176	0.080643	-0.218835	-0.00003	0.00069	0.00002
	0.183706	-0.034113	-0.223075	0.00012	0.00065	-0.00002
	0.196133	-0.042207	-0.224036	0.00013	0.00063	-0.00004
	-0.203998	0.096705	-0.206731	-0.00013	0.00112	0.00005
	-0.191571	0.088610	-0.207692	-0.00012	0.00110	0.00003
	-0.167041	-0.026146	-0.211932	0.00003	0.00106	-0.00001
	-0.154614	-0.034240	-0.212892	0.00004	0.00105	-0.00003
	-0.219945	0.107956	-0.205680	-0.00015	0.00114	0.00008
	-0.207518	0.099861	-0.206640	-0.00013	0.00113	0.00006
	-0.182988	-0.014895	-0.210880	0.00001	0.00108	0.00002
	-0.170561	-0.022989	-0.211840	0.00002	0.00107	0.00000
556	0.162714	0.075447	-0.226727	-0.00005	0.00030	0.00002
	0.175141	0.058914	-0.226243	-0.00002	0.00033	0.00000
	0.199675	-0.054882	-0.224384	0.00019	0.00039	-0.00004
	0.212102	-0.071415	-0.223901	0.00022	0.00042	-0.00006
	0.146767	0.097633	-0.227145	-0.00009	0.00027	0.00005
	0.159195	0.081100	-0.226661	-0.00006	0.00030	0.00003
	0.183728	-0.032696	-0.224803	0.00014	0.00036	-0.00002
	0.196155	-0.049230	-0.224319	0.00018	0.00038	-0.00004
	-0.204012	0.108617	-0.229631	-0.00013	-0.00051	0.00005
	-0.191584	0.092084	-0.229147	-0.00010	-0.00048	0.00003
	-0.167051	-0.021713	-0.227289	0.00011	-0.00043	-0.00001
	-0.154623	-0.038246	-0.226805	0.00014	-0.00040	-0.00003
	-0.219958	0.130803	-0.230049	-0.00017	-0.00055	0.00008
	-0.207531	0.114270	-0.229565	-0.00014	-0.00052	0.00006
	-0.182998	0.000473	-0.227707	0.00007	-0.00046	0.00002
	-0.170570	-0.016060	-0.227223	0.00010	-0.00043	0.00000
557	0.162724	0.075440	-0.234129	-0.00001	0.00007	0.00002
	0.175151	0.050673	-0.232631	0.00005	0.00008	0.00000
	0.199687	-0.066126	-0.226650	0.00032	0.00011	-0.00004
	0.212115	-0.090893	-0.225152	0.00037	0.00012	-0.00006
	0.146778	0.108293	-0.235728	-0.00008	0.00005	0.00004
	0.159205	0.083526	-0.234229	-0.00002	0.00007	0.00002
	0.183741	-0.033272	-0.228249	0.00024	0.00009	-0.00002
	0.196169	-0.058040	-0.226750	0.00030	0.00011	-0.00004
	-0.204023	0.122214	-0.235171	-0.00014	-0.00034	0.00005
	-0.191595	0.097447	-0.233672	-0.00008	-0.00033	0.00003
	-0.167059	-0.019352	-0.227692	0.00019	-0.00030	-0.00001
	-0.154632	-0.044119	-0.226193	0.00025	-0.00029	-0.00003
	-0.219968	0.155067	-0.236769	-0.00021	-0.00036	0.00007
	-0.207541	0.130300	-0.235271	-0.00015	-0.00035	0.00005
	-0.183005	0.013501	-0.229291	0.00012	-0.00032	0.00001
	-0.170577	-0.011266	-0.227792	0.00017	-0.00031	-0.00001
558	0.162726	0.077151	-0.236562	0.00010	0.00027	0.00001
	0.175152	0.043544	-0.232855	0.00018	0.00028	-0.00001
	0.199688	-0.079849	-0.220646	0.00047	0.00023	-0.00005
	0.212115	-0.113456	-0.216939	0.00055	0.00024	-0.00007
	0.146781	0.121454	-0.240849	0.00000	0.00025	0.00004
	0.159208	0.087846	-0.237142	0.00008	0.00026	0.00002
	0.183744	-0.035547	-0.224933	0.00037	0.00022	-0.00002
	0.196170	-0.069154	-0.221226	0.00045	0.00023	-0.00004
	-0.204025	0.138494	-0.243004	-0.00006	-0.00019	0.00005
	-0.191599	0.104886	-0.239297	0.00002	-0.00018	0.00003
	-0.167063	-0.018506	-0.227088	0.00031	-0.00023	-0.00001
	-0.154636	-0.052114	-0.223381	0.00039	-0.00022	-0.00003
	-0.219970	0.182796	-0.247292	-0.00016	-0.00020	0.00008
	-0.207543	0.149188	-0.243585	-0.00008	-0.00019	0.00006
	-0.183007	0.025796	-0.231376	0.00021	-0.00024	0.00001
	-0.170581	-0.007812	-0.227669	0.00029	-0.00023	-0.00001
559	0.162749	0.080202	-0.231951	-0.00007	0.00014	0.00004
	0.175175	0.037756	-0.224589	0.00003	0.00017	0.00003
	0.199712	-0.094836	-0.201709	0.00035	0.00025	0.00000
	0.212138	-0.137281	-0.194348	0.00045	0.00028	-0.00002
	0.146803	0.135962	-0.240704	-0.00019	0.00009	0.00006
	0.159229	0.093517	-0.233342	-0.00009	0.00013	0.00005
	0.183766	-0.039075	-0.210463	0.00023	0.00020	0.00002
	0.196192	-0.081521	-0.203101	0.00033	0.00024	0.00000
	-0.204040	0.156006	-0.237307	-0.00019	-0.00051	0.00003
	-0.191614	0.113561	-0.229945	-0.00009	-0.00047	0.00002
	-0.167078	-0.019032	-0.207065	0.00023	-0.00040	-0.00001
	-0.154651	-0.061477	-0.199704	0.00033	-0.00036	-0.00003
	-0.219986	0.211767	-0.246060	-0.00032	-0.00055	0.00005
	-0.207560	0.169321	-0.238698	-0.00021	-0.00052	0.00004
	-0.183024	0.036729	-0.215819	0.00010	-0.00044	0.00001
	-0.170597	-0.005716	-0.208457	0.00021	-0.00041	-0.00001
560	0.162742	0.080760	-0.239857	-0.00007	0.00043	-0.00003
	0.175175	0.031390	-0.230209	0.00006	0.00046	-0.00004
	0.199712	-0.109862	-0.199727	0.00043	0.00053	0.00001
	0.212145	-0.159232	-0.190079	0.00056	0.00057	0.00000
	0.146784	0.145477	-0.251417	-0.00023	0.00038	-0.00001



	0.159217	0.096107	-0.241770	-0.00010	0.00041	-0.00002
	0.183754	-0.045145	-0.211287	0.00027	0.00048	0.00003
	0.196186	-0.094515	-0.201639	0.00040	0.00052	0.00002
	-0.204019	0.171609	-0.206884	-0.00040	-0.00047	-0.00002
	-0.191587	0.122239	-0.197236	-0.00027	-0.00044	-0.00003
	-0.167050	-0.019013	-0.166753	0.00010	-0.00037	0.00002
	-0.154617	-0.068383	-0.157106	0.00023	-0.00033	0.00001
	-0.219978	0.236325	-0.218444	-0.00057	-0.00052	0.00000
	-0.207545	0.186955	-0.208796	-0.00044	-0.00049	-0.00001
	-0.183008	0.045703	-0.178314	-0.00007	-0.00042	0.00004
	-0.170575	-0.003667	-0.168666	0.00006	-0.00038	0.00003
561	0.158711	0.075985	-0.194553	-0.00015	0.00013	0.00002
	0.176158	0.066866	-0.195369	-0.00013	0.00016	0.00000
	0.210592	-0.047585	-0.190775	0.00009	0.00024	-0.00005
	0.228039	-0.056705	-0.191591	0.00010	0.00028	-0.00007
	0.136254	0.088572	-0.193350	-0.00018	0.00008	0.00004
	0.153701	0.079452	-0.194166	-0.00016	0.00012	0.00002
	0.188135	-0.034998	-0.189571	0.00006	0.00020	-0.00002
	0.205582	-0.044118	-0.190387	0.00008	0.00024	-0.00004
	-0.216107	0.098445	-0.180113	-0.00021	-0.00062	0.00006
	-0.198660	0.089325	-0.180929	-0.00019	-0.00058	0.00004
	-0.164226	-0.025125	-0.176334	0.00003	-0.00050	-0.00001
	-0.146779	-0.034245	-0.177150	0.00005	-0.00046	-0.00003
	-0.238564	0.111032	-0.178909	-0.00023	-0.00066	0.00008
	-0.221117	0.101912	-0.179725	-0.00021	-0.00062	0.00006
	-0.186683	-0.012539	-0.175130	0.00001	-0.00054	0.00002
	-0.169236	-0.021658	-0.175946	0.00003	-0.00051	0.00000
562	0.157145	0.080969	-0.196021	-0.00009	0.00021	0.00001
	0.176482	0.081303	-0.196274	-0.00009	0.00024	-0.00001
	0.214641	-0.039287	-0.193892	0.00013	0.00029	-0.00005
	0.233978	-0.038953	-0.194146	0.00013	0.00031	-0.00007
	0.132237	0.081303	-0.195712	-0.00009	0.00018	0.00004
	0.151574	0.081637	-0.195965	-0.00009	0.00021	0.00002
	0.189733	-0.038954	-0.193584	0.00014	0.00026	-0.00002
	0.209070	-0.038620	-0.193837	0.00013	0.00028	-0.00004
	-0.220644	0.087684	-0.191310	-0.00006	-0.00027	0.00005
	-0.201307	0.088018	-0.191563	-0.00007	-0.00025	0.00003
	-0.163148	-0.032573	-0.189182	0.00016	-0.00020	-0.00001
	-0.143810	-0.032239	-0.189435	0.00016	-0.00017	-0.00003
	-0.245552	0.088017	-0.191001	-0.00006	-0.00030	0.00007
	-0.226214	0.088351	-0.191254	-0.00006	-0.00028	0.00005
	-0.188056	-0.032239	-0.188873	0.00016	-0.00023	0.00001
	-0.168718	-0.031905	-0.189126	0.00016	-0.00020	-0.00001
563	0.155470	0.089999	-0.172467	-0.00008	0.00043	0.00002
	0.176491	0.098940	-0.171876	-0.00010	0.00047	0.00000
	0.217953	-0.032869	-0.164473	0.00016	0.00056	-0.00004
	0.238974	-0.023928	-0.163882	0.00015	0.00060	-0.00006
	0.128383	0.079161	-0.173484	-0.00006	0.00038	0.00004
	0.149403	0.088101	-0.172892	-0.00008	0.00043	0.00002
	0.190866	-0.043707	-0.165490	0.00019	0.00051	-0.00002
	0.211886	-0.034767	-0.164899	0.00017	0.00055	-0.00004
	-0.224581	0.079767	-0.189229	-0.00004	-0.00031	0.00005
	-0.203561	0.088708	-0.188637	-0.00006	-0.00027	0.00003
	-0.162098	-0.043101	-0.181235	0.00021	-0.00018	-0.00001
	-0.141078	-0.034160	-0.180644	0.00019	-0.00014	-0.00003
	-0.251668	0.068929	-0.190245	-0.00002	-0.00035	0.00008
	-0.230648	0.077869	-0.189654	-0.00004	-0.00031	0.00006
	-0.189185	-0.053939	-0.182252	0.00023	-0.00023	0.00002
	-0.168165	-0.044999	-0.181661	0.00021	-0.00019	0.00000
564	0.152867	0.075497	-0.195319	-0.00007	0.00024	0.00002
	0.177304	0.064981	-0.197185	-0.00004	0.00030	0.00000
	0.225513	-0.049090	-0.182655	0.00015	0.00044	-0.00003
	0.249949	-0.059607	-0.184521	0.00018	0.00050	-0.00005
	0.121350	0.089893	-0.192345	-0.00009	0.00016	0.00005
	0.145787	0.079377	-0.194211	-0.00007	0.00022	0.00003
	0.193995	-0.034694	-0.179681	0.00013	0.00036	-0.00001
	0.218432	-0.045210	-0.181547	0.00015	0.00042	-0.00003
	-0.232878	0.100321	-0.148729	-0.00016	-0.00076	0.00005
	-0.208442	0.089804	-0.150595	-0.00014	-0.00069	0.00003
	-0.160233	-0.024267	-0.136065	0.00006	-0.00056	-0.00001
	-0.135796	-0.034783	-0.137931	0.00009	-0.00049	-0.00003
	-0.264395	0.114717	-0.145755	-0.00019	-0.00084	0.00007
	-0.239959	0.104200	-0.147621	-0.00016	-0.00077	0.00005
	-0.191750	-0.009870	-0.133092	0.00004	-0.00064	0.00002
	-0.167313	-0.020387	-0.134958	0.00006	-0.00057	0.00000
565	0.151356	0.080033	-0.170717	-0.00008	0.00032	0.00001
	0.177689	0.078965	-0.171017	-0.00008	0.00038	-0.00001
	0.229631	-0.040310	-0.157796	0.00012	0.00049	-0.00005
	0.255963	-0.041378	-0.158096	0.00012	0.00054	-0.00007
	0.117381	0.082182	-0.170385	-0.00009	0.00026	0.00004
	0.143714	0.081114	-0.170685	-0.00008	0.00031	0.00002
	0.195656	-0.038161	-0.157464	0.00011	0.00042	-0.00002
	0.221988	-0.039229	-0.157764	0.00012	0.00048	-0.00004

	-0.237451	0.089044	-0.167632	-0.00013	-0.00048	0.00005
	-0.211119	0.087977	-0.167932	-0.00013	-0.00042	0.00003
	-0.159177	-0.031299	-0.154712	0.00007	-0.00031	-0.00001
	-0.132844	-0.032367	-0.155011	0.00008	-0.00026	-0.00003
	-0.271426	0.091193	-0.167300	-0.00014	-0.00054	0.00008
	-0.245094	0.090126	-0.167600	-0.00013	-0.00049	0.00005
	-0.193152	-0.029150	-0.154380	0.00007	-0.00038	0.00001
	-0.166819	-0.030218	-0.154679	0.00007	-0.00032	-0.00001
566	0.149817	0.088602	-0.138718	-0.00003	0.00045	0.00001
	0.177721	0.096169	-0.137422	-0.00004	0.00052	0.00000
	0.232849	-0.033549	-0.121149	0.00018	0.00067	-0.00004
	0.260753	-0.025982	-0.119853	0.00017	0.00074	-0.00006
	0.113203	0.079599	-0.141015	-0.00002	0.00037	0.00004
	0.141107	0.087165	-0.139719	-0.00003	0.00044	0.00002
	0.196235	-0.042552	-0.123445	0.00019	0.00058	-0.00002
	0.224139	-0.034986	-0.122149	0.00018	0.00065	-0.00004
	-0.241152	0.080740	-0.177570	-0.00009	-0.00053	0.00004
	-0.213248	0.088306	-0.176274	-0.00010	-0.00046	0.00002
	-0.158120	-0.041411	-0.160000	0.00012	-0.00032	-0.00002
	-0.130216	-0.033845	-0.158704	0.00011	-0.00025	-0.00004
	-0.277766	0.071737	-0.179866	-0.00008	-0.00062	0.00007
	-0.249862	0.079303	-0.178570	-0.00009	-0.00055	0.00005
	-0.194734	-0.050414	-0.162297	0.00012	-0.00040	0.00001
	-0.166830	-0.042848	-0.161001	0.00012	-0.00033	-0.00001
567	0.204783	0.107187	-0.175752	-0.00020	0.00044	0.00003
	0.201471	0.120979	-0.175904	-0.00023	0.00043	0.00001
	0.194772	-0.036931	-0.171525	0.00010	0.00042	-0.00003
	0.191461	-0.023138	-0.171678	0.00007	0.00041	-0.00005
	0.209166	0.090328	-0.175523	-0.00016	0.00044	0.00006
	0.205855	0.104121	-0.175675	-0.00019	0.00044	0.00004
	0.199156	-0.053789	-0.171296	0.00014	0.00042	0.00000
	0.195844	-0.039997	-0.171449	0.00011	0.00042	-0.00002
	-0.190991	0.091296	-0.099829	-0.00017	-0.00038	0.00002
	-0.194303	0.105088	-0.099981	-0.00020	-0.00039	0.00000
	-0.201001	-0.052822	-0.095602	0.00013	-0.00040	-0.00004
	-0.204313	-0.039029	-0.095755	0.00010	-0.00041	-0.00006
	-0.186608	0.074437	-0.099600	-0.00013	-0.00037	0.00005
	-0.189919	0.088230	-0.099752	-0.00016	-0.00038	0.00002
	-0.196618	-0.069680	-0.095373	0.00017	-0.00039	-0.00002
	-0.199929	-0.055887	-0.095526	0.00014	-0.00040	-0.00004
568	0.204371	0.088285	-0.196359	-0.00021	0.00000	0.00003
	0.220077	0.079641	-0.195431	-0.00019	0.00000	0.00000
	0.251428	-0.054982	-0.201182	0.00011	0.00000	-0.00005
	0.267134	-0.063625	-0.200254	0.00013	0.00000	-0.00007
	0.184481	0.100066	-0.197569	-0.00024	0.00000	0.00006
	0.200187	0.091423	-0.196641	-0.00021	0.00000	0.00003
	0.231538	-0.043200	-0.202392	0.00008	0.00000	-0.00002
	0.247244	-0.051843	-0.201464	0.00011	0.00000	-0.00004
	-0.255969	0.113125	-0.238060	-0.00028	0.00000	0.00007
	-0.240263	0.104482	-0.237132	-0.00026	0.00000	0.00005
	-0.208912	-0.030141	-0.242884	0.00004	0.00000	0.00000
	-0.193206	-0.038784	-0.241956	0.00006	0.00000	-0.00003
	-0.275858	0.124907	-0.239271	-0.00031	0.00000	0.00010
	-0.260152	0.116264	-0.238343	-0.00028	0.00000	0.00008
	-0.228801	-0.018359	-0.244094	0.00001	0.00000	0.00003
	-0.213095	-0.027002	-0.243166	0.00004	0.00000	0.00000
569	0.204684	0.088134	-0.211793	-0.00021	0.00000	0.00002
	0.220393	0.078743	-0.211924	-0.00019	0.00000	0.00000
	0.251749	-0.055582	-0.215864	0.00011	0.00000	-0.00005
	0.267457	-0.064973	-0.215995	0.00014	0.00000	-0.00008
	0.184790	0.100850	-0.211751	-0.00024	0.00000	0.00005
	0.200499	0.091459	-0.211882	-0.00022	0.00000	0.00003
	0.231855	-0.042866	-0.215822	0.00008	0.00000	-0.00002
	0.247564	-0.052257	-0.215953	0.00011	0.00000	-0.00005
	-0.255721	0.114310	-0.223116	-0.00029	0.00000	0.00007
	-0.240013	0.104918	-0.223247	-0.00026	0.00000	0.00004
	-0.208657	-0.029406	-0.227187	0.00004	0.00000	-0.00001
	-0.192948	-0.038798	-0.227318	0.00006	0.00000	-0.00003
	-0.275615	0.127026	-0.223074	-0.00031	0.00000	0.00010
	-0.259906	0.117635	-0.223205	-0.00029	0.00000	0.00008
	-0.228551	-0.016690	-0.227145	0.00001	0.00000	0.00003
	-0.212842	-0.026081	-0.227276	0.00004	0.00000	0.00000
570	0.204752	0.088043	-0.216616	-0.00021	0.00000	0.00002
	0.220459	0.078405	-0.217099	-0.00019	0.00000	0.00000
	0.251811	-0.055792	-0.220987	0.00011	0.00000	-0.00005
	0.267518	-0.065430	-0.221470	0.00014	0.00000	-0.00008
	0.184861	0.101068	-0.216157	-0.00024	0.00000	0.00005
	0.200568	0.091430	-0.216640	-0.00022	0.00000	0.00003
	0.231920	-0.042767	-0.220528	0.00008	0.00000	-0.00002
	0.247627	-0.052405	-0.221011	0.00011	0.00000	-0.00005
	-0.255598	0.114672	-0.217875	-0.00029	0.00000	0.00007
	-0.239892	0.105034	-0.218358	-0.00026	0.00000	0.00004
	-0.208539	-0.029163	-0.222246	0.00004	0.00000	-0.00001

	-0.192832	-0.038801	-0.222729	0.00006	0.00000	-0.00003
	-0.275489	0.127697	-0.217416	-0.00032	0.00000	0.00010
	-0.259782	0.118059	-0.217899	-0.00029	0.00000	0.00007
	-0.228430	-0.016138	-0.221787	0.00001	0.00000	0.00002
	-0.212723	-0.025776	-0.222270	0.00003	0.00000	0.00000
571	0.204794	0.087941	-0.221416	-0.00021	0.00000	0.00002
	0.220499	0.078056	-0.222252	-0.00019	0.00000	0.00000
	0.251847	-0.056008	-0.226325	0.00011	0.00000	-0.00005
	0.267551	-0.065893	-0.227162	0.00014	0.00000	-0.00008
	0.184908	0.101274	-0.220539	-0.00024	0.00000	0.00005
	0.200612	0.091389	-0.221376	-0.00022	0.00000	0.00003
	0.231960	-0.042675	-0.225449	0.00008	0.00000	-0.00002
	0.247664	-0.052560	-0.226285	0.00011	0.00000	-0.00005
	-0.255486	0.115026	-0.212454	-0.00029	0.00000	0.00007
	-0.239782	0.105141	-0.213290	-0.00026	0.00000	0.00004
	-0.208434	-0.028923	-0.217363	0.00004	0.00000	-0.00001
	-0.192730	-0.038808	-0.218200	0.00006	0.00000	-0.00003
	-0.275373	0.128359	-0.211577	-0.00032	0.00000	0.00010
	-0.259669	0.118474	-0.212414	-0.00029	0.00000	0.00007
	-0.228321	-0.015590	-0.216486	0.00001	0.00000	0.00002
	-0.212617	-0.025475	-0.217323	0.00003	0.00000	0.00000
572	0.240310	0.122077	-0.131891	-0.00012	0.00036	-0.00002
	0.229101	0.137937	-0.122569	-0.00016	0.00037	-0.00005
	0.206296	-0.041872	-0.198091	0.00017	0.00015	-0.00010
	0.195086	-0.026012	-0.188769	0.00012	0.00017	-0.00013
	0.254576	0.102821	-0.142460	-0.00006	0.00034	0.00001
	0.243366	0.118681	-0.133139	-0.00011	0.00036	-0.00001
	0.220562	-0.061128	-0.208660	0.00022	0.00014	-0.00007
	0.209352	-0.045268	-0.199339	0.00018	0.00015	-0.00009
	-0.212521	0.104700	-0.075192	-0.00004	-0.00015	-0.00008
	-0.223731	0.120561	-0.065871	-0.00009	-0.00014	-0.00011
	-0.246535	-0.059249	-0.141393	0.00024	-0.00035	-0.00016
	-0.257745	-0.043388	-0.132071	0.00019	-0.00034	-0.00019
	-0.198255	0.085444	-0.085762	0.00001	-0.00017	-0.00005
	-0.209465	0.101304	-0.076440	-0.00004	-0.00015	-0.00007
	-0.232269	-0.078505	-0.151962	0.00030	-0.00037	-0.00013
	-0.243479	-0.062644	-0.142640	0.00025	-0.00035	-0.00015
573	0.240556	0.112962	-0.172551	-0.00018	0.00048	0.00000
	0.229453	0.123764	-0.168478	-0.00019	0.00046	-0.00003
	0.206951	-0.043553	-0.195407	0.00008	0.00041	-0.00009
	0.195848	-0.032751	-0.191334	0.00006	0.00039	-0.00011
	0.254701	0.100021	-0.177663	-0.00016	0.00050	0.00003
	0.243598	0.110823	-0.173590	-0.00017	0.00048	0.00001
	0.221096	-0.056494	-0.200519	0.00010	0.00043	-0.00005
	0.209993	-0.045692	-0.196446	0.00008	0.00041	-0.00008
	-0.211735	0.094546	-0.071958	-0.00009	-0.00044	0.00007
	-0.222839	0.105348	-0.067885	-0.00011	-0.00047	0.00004
	-0.245340	-0.061970	-0.094814	0.00016	-0.00051	-0.00002
	-0.256444	-0.051168	-0.090741	0.00014	-0.00054	-0.00004
	-0.197590	0.081605	-0.077070	-0.00007	-0.00042	0.00010
	-0.208694	0.092407	-0.072997	-0.00009	-0.00044	0.00007
	-0.231195	-0.074911	-0.099926	0.00018	-0.00049	0.00002
	-0.242299	-0.064109	-0.095853	0.00016	-0.00051	-0.00001
574	0.237499	0.121864	-0.158533	-0.00022	0.00043	0.00003
	0.231411	0.137702	-0.155664	-0.00025	0.00042	0.00000
	0.219174	-0.042009	-0.180558	0.00006	0.00041	-0.00006
	0.213086	-0.026171	-0.177688	0.00003	0.00040	-0.00009
	0.245360	0.102632	-0.161795	-0.00018	0.00044	0.00006
	0.239272	0.118470	-0.158926	-0.00021	0.00043	0.00003
	0.227035	-0.061242	-0.183820	0.00010	0.00042	-0.00002
	0.220947	-0.045404	-0.180950	0.00007	0.00041	-0.00005
	-0.214379	0.104085	-0.082624	-0.00016	-0.00039	0.00005
	-0.220467	0.119923	-0.079755	-0.00019	-0.00040	0.00002
	-0.232704	-0.059788	-0.104649	0.00012	-0.00042	-0.00004
	-0.238792	-0.043951	-0.101780	0.00009	-0.00042	-0.00006
	-0.206518	0.084853	-0.085886	-0.00012	-0.00038	0.00009
	-0.212606	0.100690	-0.083017	-0.00016	-0.00039	0.00006
	-0.224843	-0.079021	-0.107911	0.00016	-0.00041	0.00000
	-0.230931	-0.063183	-0.105042	0.00013	-0.00042	-0.00003
575	0.236474	0.112411	-0.225685	-0.00028	0.00040	-0.00013
	0.230403	0.123194	-0.223448	-0.00029	0.00041	-0.00016
	0.218170	-0.043751	-0.244811	-0.00019	0.00042	-0.00004
	0.212099	-0.032968	-0.242574	-0.00020	0.00043	-0.00007
	0.244317	0.099489	-0.228272	-0.00026	0.00039	-0.00009
	0.238246	0.110272	-0.226035	-0.00027	0.00040	-0.00012
	0.226013	-0.056673	-0.247397	-0.00017	0.00041	0.00000
	0.219942	-0.045890	-0.245161	-0.00018	0.00042	-0.00003
	-0.210949	0.093665	-0.050982	0.00006	-0.00014	-0.00009
	-0.217020	0.104448	-0.048745	0.00005	-0.00013	-0.00012
	-0.229253	-0.062497	-0.070107	0.00015	-0.00011	0.00000
	-0.235324	-0.051714	-0.067871	0.00014	-0.00010	-0.00003
	-0.203106	0.080743	-0.053568	0.00008	-0.00015	-0.00006
	-0.209177	0.091526	-0.051331	0.00007	-0.00014	-0.00009

	-0.221410	-0.075419	-0.072694	0.00017	-0.00012	0.00004
	-0.227481	-0.064636	-0.070457	0.00016	-0.00011	0.00001
576	0.254091	0.138789	-0.076123	-0.00024	0.00047	0.00002
	0.247653	0.162036	-0.074458	-0.00028	0.00046	-0.00001
	0.234657	-0.043054	-0.096534	0.00007	0.00044	-0.00006
	0.228219	-0.019806	-0.094869	0.00003	0.00042	-0.00009
	0.262373	0.110418	-0.077928	-0.00019	0.00049	0.00005
	0.255936	0.133666	-0.076263	-0.00023	0.00047	0.00002
	0.242939	-0.071424	-0.098339	0.00012	0.00045	-0.00003
	0.236502	-0.048176	-0.096674	0.00008	0.00044	-0.00006
	-0.232029	0.105588	-0.168747	-0.00017	-0.00042	0.00009
	-0.238467	0.128835	-0.167082	-0.00021	-0.00043	0.00006
	-0.251463	-0.076254	-0.189158	0.00014	-0.00046	0.00001
	-0.257901	-0.053007	-0.187493	0.00010	-0.00047	-0.00002
	-0.223747	0.077217	-0.170551	-0.00012	-0.00040	0.00012
	-0.230184	0.100465	-0.168886	-0.00016	-0.00042	0.00009
	-0.243181	-0.104625	-0.190962	0.00019	-0.00044	0.00004
	-0.249618	-0.081377	-0.189297	0.00015	-0.00045	0.00001
577	0.253887	0.134546	-0.117753	-0.00023	0.00000	0.00002
	0.247426	0.155023	-0.115513	-0.00027	0.00000	-0.00001
	0.234392	-0.044058	-0.138647	0.00007	0.00000	-0.00007
	0.227932	-0.023582	-0.136407	0.00003	0.00000	-0.00010
	0.262191	0.109690	-0.120247	-0.00019	0.00000	0.00005
	0.255731	0.130166	-0.118007	-0.00023	0.00000	0.00002
	0.242697	-0.068915	-0.141141	0.00012	0.00000	-0.00003
	0.236236	-0.048439	-0.138901	0.00008	0.00000	-0.00006
	-0.231050	0.108563	-0.125885	-0.00017	0.00000	0.00009
	-0.237511	0.129040	-0.123646	-0.00021	0.00000	0.00006
	-0.250545	-0.070041	-0.146779	0.00013	0.00000	0.00000
	-0.257005	-0.049565	-0.144540	0.00009	0.00000	-0.00003
	-0.222746	0.083707	-0.128380	-0.00013	0.00000	0.00012
	-0.229206	0.104183	-0.126140	-0.00017	0.00000	0.00009
	-0.242240	-0.094898	-0.149274	0.00018	0.00000	0.00004
	-0.248701	-0.074421	-0.147034	0.00014	0.00000	0.00001
578	0.253913	0.132570	-0.136144	-0.00023	0.00040	0.00003
	0.247441	0.151572	-0.133611	-0.00027	0.00039	-0.00001
	0.234382	-0.044367	-0.157599	0.00007	0.00043	-0.00008
	0.227909	-0.025364	-0.155066	0.00003	0.00042	-0.00011
	0.262230	0.109541	-0.138986	-0.00019	0.00041	0.00007
	0.255757	0.128544	-0.136453	-0.00023	0.00040	0.00004
	0.242698	-0.067395	-0.160441	0.00011	0.00044	-0.00003
	0.236225	-0.048393	-0.157908	0.00007	0.00043	-0.00007
	-0.230432	0.109564	-0.106736	-0.00016	-0.00047	0.00009
	-0.236905	0.128567	-0.104203	-0.00020	-0.00048	0.00006
	-0.249964	-0.067372	-0.128191	0.00014	-0.00043	-0.00001
	-0.256436	-0.048370	-0.125658	0.00010	-0.00044	-0.00005
	-0.222116	0.086536	-0.109578	-0.00012	-0.00046	0.00013
	-0.228589	0.105538	-0.107045	-0.00016	-0.00047	0.00010
	-0.241648	-0.090401	-0.131033	0.00018	-0.00042	0.00003
	-0.248120	-0.071398	-0.128500	0.00014	-0.00043	-0.00001
579	0.253997	0.130178	-0.159203	-0.00023	0.00046	0.00003
	0.247525	0.147114	-0.156292	-0.00026	0.00045	0.00000
	0.234469	-0.044528	-0.181505	0.00007	0.00042	-0.00007
	0.227996	-0.027592	-0.178593	0.00004	0.00041	-0.00010
	0.262308	0.109672	-0.162492	-0.00020	0.00047	0.00007
	0.255835	0.126608	-0.159580	-0.00023	0.00046	0.00004
	0.242780	-0.065034	-0.184794	0.00011	0.00044	-0.00003
	0.236307	-0.048098	-0.181882	0.00007	0.00042	-0.00006
	-0.230444	0.110310	-0.081898	-0.00017	-0.00048	0.00008
	-0.236916	0.127246	-0.078986	-0.00020	-0.00049	0.00005
	-0.249972	-0.064395	-0.104200	0.00013	-0.00052	-0.00002
	-0.256445	-0.047459	-0.101288	0.00010	-0.00053	-0.00005
	-0.222133	0.089804	-0.085187	-0.00013	-0.00047	0.00012
	-0.228606	0.106740	-0.082275	-0.00017	-0.00048	0.00009
	-0.241661	-0.084902	-0.107489	0.00017	-0.00050	0.00002
	-0.248134	-0.067966	-0.104577	0.00014	-0.00052	-0.00001
580	0.251808	0.138793	-0.098422	0.00000	0.00047	0.00003
	0.248039	0.162022	-0.099945	0.00000	0.00046	0.00000
	0.240389	-0.042972	-0.091380	0.00000	0.00045	-0.00006
	0.236621	-0.019743	-0.092903	0.00000	0.00044	-0.00009
	0.256762	0.110438	-0.096562	0.00000	0.00048	0.00006
	0.252994	0.133667	-0.098085	0.00000	0.00047	0.00003
	0.245344	-0.071327	-0.089519	0.00000	0.00046	-0.00003
	0.241575	-0.048098	-0.091043	0.00000	0.00045	-0.00006
	-0.239804	0.105873	-0.184544	0.00000	-0.00043	0.00008
	-0.243572	0.129103	-0.186068	0.00000	-0.00044	0.00005
	-0.251222	-0.075892	-0.177502	0.00000	-0.00045	-0.00001
	-0.254990	-0.052662	-0.179025	0.00000	-0.00046	-0.00004
	-0.234849	0.077518	-0.182684	0.00000	-0.00043	0.00012
	-0.238617	0.100748	-0.184207	0.00000	-0.00043	0.00009
	-0.246267	-0.104247	-0.175641	0.00000	-0.00045	0.00003
	-0.250036	-0.081017	-0.177165	0.00000	-0.00045	0.00000

581	0.251713	0.130618	-0.178933	0.00000	0.00045	0.00002
	0.247964	0.147536	-0.179074	0.00000	0.00045	-0.00001
	0.240328	-0.044271	-0.174651	0.00000	0.00044	-0.00007
	0.236579	-0.027353	-0.174791	0.00000	0.00044	-0.00010
	0.256654	0.110132	-0.178705	0.00000	0.00046	0.00006
	0.252905	0.127050	-0.178845	0.00000	0.00045	0.00003
	0.245269	-0.064757	-0.174423	0.00000	0.00044	-0.00003
	0.241520	-0.047839	-0.174563	0.00000	0.00044	-0.00006
	-0.238114	0.110024	-0.098912	0.00000	-0.00049	0.00010
	-0.241863	0.126942	-0.099053	0.00000	-0.00050	0.00007
	-0.249499	-0.064865	-0.094630	0.00000	-0.00051	0.00001
	-0.253248	-0.047947	-0.094771	0.00000	-0.00051	-0.00002
	-0.233173	0.089537	-0.098684	0.00000	-0.00049	0.00014
	-0.236923	0.106456	-0.098824	0.00000	-0.00049	0.00011
	-0.244558	-0.085351	-0.094402	0.00000	-0.00050	0.00005
	-0.248308	-0.068433	-0.094542	0.00000	-0.00051	0.00002
582	0.245438	0.138853	-0.118513	-0.00024	0.00048	0.00003
	0.244442	0.162067	-0.123174	-0.00028	0.00048	0.00000
	0.248934	-0.042820	-0.085246	0.00008	0.00049	-0.00006
	0.247938	-0.019606	-0.089907	0.00004	0.00049	-0.00009
	0.246918	0.110510	-0.113040	-0.00019	0.00048	0.00007
	0.245923	0.133724	-0.117701	-0.00023	0.00048	0.00004
	0.250414	-0.071164	-0.079773	0.00013	0.00049	-0.00002
	0.249419	-0.047950	-0.084434	0.00009	0.00049	-0.00005
	-0.250210	0.106055	-0.200759	-0.00014	-0.00046	0.00008
	-0.251205	0.129269	-0.205421	-0.00019	-0.00046	0.00005
	-0.246714	-0.075619	-0.167493	0.00018	-0.00045	-0.00001
	-0.247709	-0.052405	-0.172154	0.00013	-0.00046	-0.00004
	-0.248729	0.077712	-0.195286	-0.00010	-0.00046	0.00012
	-0.249725	0.100926	-0.199947	-0.00014	-0.00046	0.00009
	-0.245234	-0.103962	-0.162019	0.00022	-0.00045	0.00003
	-0.246229	-0.080748	-0.166680	0.00018	-0.00045	0.00000
583	0.245625	0.134866	-0.160069	-0.00022	0.00000	0.00002
	0.244645	0.154949	-0.163933	-0.00026	0.00000	-0.00001
	0.249041	-0.043344	-0.128592	0.00010	0.00000	-0.00007
	0.248061	-0.023262	-0.132455	0.00006	0.00000	-0.00010
	0.247098	0.110440	-0.155532	-0.00018	0.00000	0.00006
	0.246118	0.130523	-0.159395	-0.00022	0.00000	0.00003
	0.250514	-0.067770	-0.124054	0.00014	0.00000	-0.00003
	0.249534	-0.047687	-0.127918	0.00010	0.00000	-0.00006
	-0.249895	0.107523	-0.156442	-0.00015	0.00000	0.00008
	-0.250875	0.127606	-0.160306	-0.00019	0.00000	0.00005
	-0.246478	-0.070687	-0.124965	0.00017	0.00000	-0.00001
	-0.247458	-0.050604	-0.128828	0.00013	0.00000	-0.00004
	-0.248422	0.083098	-0.151905	-0.00011	0.00000	0.00012
	-0.249402	0.103180	-0.155768	-0.00015	0.00000	0.00009
	-0.245005	-0.095113	-0.120427	0.00021	0.00000	0.00003
	-0.245985	-0.075030	-0.124291	0.00017	0.00000	0.00000
584	0.246058	0.130983	-0.200893	-0.00021	0.00045	0.00003
	0.245094	0.147883	-0.204100	-0.00025	0.00045	-0.00001
	0.249381	-0.043849	-0.170147	0.00009	0.00045	-0.00007
	0.248417	-0.026950	-0.173354	0.00006	0.00045	-0.00010
	0.247520	0.110518	-0.197131	-0.00018	0.00045	0.00006
	0.246556	0.127418	-0.200338	-0.00021	0.00045	0.00003
	0.250842	-0.064315	-0.166385	0.00013	0.00045	-0.00003
	0.249878	-0.047415	-0.169592	0.00010	0.00045	-0.00006
	-0.249815	0.109982	-0.113821	-0.00015	-0.00049	0.00010
	-0.250779	0.126881	-0.117029	-0.00019	-0.00049	0.00007
	-0.246492	-0.064851	-0.083075	0.00015	-0.00048	0.00000
	-0.247457	-0.047951	-0.086283	0.00012	-0.00048	-0.00003
	-0.248353	0.089517	-0.110059	-0.00012	-0.00049	0.00014
	-0.249318	0.106416	-0.113267	-0.00015	-0.00049	0.00010
	-0.245031	-0.085316	-0.079313	0.00019	-0.00049	0.00004
	-0.245995	-0.068417	-0.082521	0.00016	-0.00048	0.00001
585	0.235804	0.138501	-0.198522	-0.00021	0.00000	0.00001
	0.254130	0.154562	-0.197512	-0.00024	0.00000	-0.00002
	0.291150	-0.041520	-0.202138	0.00013	0.00000	-0.00009
	0.309476	-0.025458	-0.201127	0.00010	0.00000	-0.00012
	0.213025	0.119100	-0.199314	-0.00018	0.00000	0.00005
	0.231350	0.135161	-0.198303	-0.00021	0.00000	0.00002
	0.268371	-0.060920	-0.202929	0.00017	0.00000	-0.00005
	0.286696	-0.044859	-0.201919	0.00014	0.00000	-0.00008
	-0.300508	0.115583	-0.223689	-0.00015	0.00000	0.00007
	-0.282182	0.131644	-0.222678	-0.00019	0.00000	0.00004
	-0.245162	-0.064438	-0.227304	0.00019	0.00000	-0.00003
	-0.226836	-0.048377	-0.226294	0.00016	0.00000	-0.00006
	-0.323287	0.096182	-0.224480	-0.00012	0.00000	0.00011
	-0.304961	0.112243	-0.223470	-0.00015	0.00000	0.00008
	-0.267941	-0.083838	-0.228096	0.00023	0.00000	0.00001
	-0.249616	-0.067777	-0.227086	0.00019	0.00000	-0.00002
586	0.235853	0.137970	-0.203399	-0.00021	0.00000	0.00001
	0.254179	0.153732	-0.202697	-0.00024	0.00000	-0.00002
	0.291201	-0.041682	-0.206120	0.00013	0.00000	-0.00009

	0.309527	-0.025921	-0.205418	0.00010	0.00000	-0.00012
	0.213071	0.118944	-0.203844	-0.00017	0.00000	0.00005
	0.231398	0.134706	-0.203142	-0.00021	0.00000	0.00002
	0.268419	-0.060708	-0.206565	0.00017	0.00000	-0.00005
	0.286746	-0.044947	-0.205863	0.00014	0.00000	-0.00008
	-0.300488	0.115617	-0.219678	-0.00015	0.00000	0.00007
	-0.282161	0.131379	-0.218976	-0.00019	0.00000	0.00004
	-0.245139	-0.064035	-0.222399	0.00019	0.00000	-0.00003
	-0.226813	-0.048273	-0.221697	0.00016	0.00000	-0.00006
	-0.323269	0.096591	-0.220122	-0.00012	0.00000	0.00011
	-0.304943	0.112353	-0.219420	-0.00015	0.00000	0.00008
	-0.267921	-0.083061	-0.222844	0.00022	0.00000	0.00001
	-0.249595	-0.067299	-0.222142	0.00019	0.00000	-0.00002
587	0.236282	0.132810	-0.249228	-0.00021	0.00000	0.00001
	0.254604	0.145304	-0.251945	-0.00023	0.00000	-0.00002
	0.291616	-0.043395	-0.257679	0.00011	0.00000	-0.00008
	0.309938	-0.030901	-0.260396	0.00009	0.00000	-0.00011
	0.213507	0.117871	-0.245807	-0.00018	0.00000	0.00005
	0.231829	0.130365	-0.248524	-0.00020	0.00000	0.00002
	0.268841	-0.058334	-0.254258	0.00014	0.00000	-0.00004
	0.287163	-0.045840	-0.256975	0.00012	0.00000	-0.00007
	-0.299911	0.116458	-0.166927	-0.00017	0.00000	0.00007
	-0.281589	0.128952	-0.169644	-0.00019	0.00000	0.00004
	-0.244577	-0.059747	-0.175378	0.00015	0.00000	-0.00003
	-0.226255	-0.047253	-0.178095	0.00013	0.00000	-0.00006
	-0.322687	0.101519	-0.163506	-0.00014	0.00000	0.00011
	-0.304365	0.114013	-0.166223	-0.00016	0.00000	0.00008
	-0.267353	-0.074686	-0.171957	0.00018	0.00000	0.00001
	-0.249031	-0.062192	-0.174674	0.00016	0.00000	-0.00002
588	0.240963	0.109639	-0.202156	-0.00027	0.00000	0.00003
	0.259578	0.098815	-0.201317	-0.00024	0.00000	0.00000
	0.297143	-0.064111	-0.206932	0.00010	0.00000	-0.00006
	0.315757	-0.074935	-0.206093	0.00013	0.00000	-0.00009
	0.217703	0.123855	-0.203216	-0.00030	0.00000	0.00007
	0.236318	0.113031	-0.202377	-0.00027	0.00000	0.00004
	0.273883	-0.049895	-0.207993	0.00007	0.00000	-0.00002
	0.292498	-0.060719	-0.207154	0.00010	0.00000	-0.00005
	-0.303284	0.139817	-0.241539	-0.00032	0.00000	0.00008
	-0.284670	0.128993	-0.240700	-0.00030	0.00000	0.00005
	-0.247105	-0.033933	-0.246316	0.00005	0.00000	-0.00001
	-0.228490	-0.044757	-0.245477	0.00008	0.00000	-0.00004
	-0.326544	0.154033	-0.242600	-0.00035	0.00000	0.00012
	-0.307929	0.143209	-0.241761	-0.00033	0.00000	0.00009
	-0.270364	-0.019717	-0.247377	0.00002	0.00000	0.00003
	-0.251750	-0.030541	-0.246537	0.00005	0.00000	0.00000
589	0.241193	0.109486	-0.215941	-0.00027	0.00000	0.00003
	0.259809	0.097774	-0.216054	-0.00025	0.00000	0.00000
	0.297376	-0.064928	-0.220014	0.00010	0.00000	-0.00006
	0.315992	-0.076640	-0.220126	0.00013	0.00000	-0.00009
	0.217931	0.124796	-0.215926	-0.00030	0.00000	0.00007
	0.236547	0.113083	-0.216039	-0.00028	0.00000	0.00004
	0.274114	-0.049618	-0.219999	0.00007	0.00000	-0.00002
	0.292730	-0.061330	-0.220111	0.00010	0.00000	-0.00005
	-0.303089	0.141254	-0.227797	-0.00033	0.00000	0.00008
	-0.284473	0.129541	-0.227910	-0.00030	0.00000	0.00005
	-0.246905	-0.033160	-0.231870	0.00005	0.00000	-0.00001
	-0.228289	-0.044872	-0.231982	0.00008	0.00000	-0.00004
	-0.326351	0.156563	-0.227782	-0.00036	0.00000	0.00012
	-0.307735	0.144851	-0.227894	-0.00033	0.00000	0.00009
	-0.270168	-0.017851	-0.231855	0.00002	0.00000	0.00003
	-0.251552	-0.029563	-0.231967	0.00005	0.00000	0.00000
590	0.241321	0.109411	-0.223473	-0.00028	0.00000	0.00003
	0.259937	0.097184	-0.224137	-0.00025	0.00000	0.00000
	0.297505	-0.065406	-0.228088	0.00010	0.00000	-0.00006
	0.316122	-0.077634	-0.228752	0.00013	0.00000	-0.00009
	0.218058	0.125355	-0.222835	-0.00031	0.00000	0.00007
	0.236675	0.113128	-0.223498	-0.00028	0.00000	0.00004
	0.274243	-0.049463	-0.227449	0.00007	0.00000	-0.00002
	0.292859	-0.061690	-0.228113	0.00010	0.00000	-0.00005
	-0.302965	0.142111	-0.219355	-0.00033	0.00000	0.00008
	-0.284349	0.129884	-0.220019	-0.00030	0.00000	0.00005
	-0.246781	-0.032707	-0.223970	0.00005	0.00000	-0.00001
	-0.228165	-0.044934	-0.224633	0.00008	0.00000	-0.00004
	-0.326228	0.158055	-0.218716	-0.00036	0.00000	0.00012
	-0.307612	0.145828	-0.219380	-0.00033	0.00000	0.00009
	-0.270044	-0.016763	-0.223331	0.00002	0.00000	0.00003
	-0.251428	-0.028990	-0.223995	0.00005	0.00000	0.00000
591	0.241340	0.109403	-0.224576	-0.00028	0.00000	0.00003
	0.259957	0.097097	-0.225323	-0.00025	0.00000	0.00000
	0.297524	-0.065479	-0.229321	0.00011	0.00000	-0.00006
	0.316141	-0.077785	-0.230068	0.00013	0.00000	-0.00009
	0.218078	0.125443	-0.223843	-0.00031	0.00000	0.00007
	0.236694	0.113138	-0.224590	-0.00028	0.00000	0.00004

	0.274262	-0.049438	-0.228588	0.00007	0.00000	-0.00002
	0.292878	-0.061744	-0.229335	0.00010	0.00000	-0.00005
	-0.302945	0.142246	-0.218055	-0.00033	0.00000	0.00008
	-0.284329	0.129940	-0.218802	-0.00030	0.00000	0.00006
	-0.246761	-0.032635	-0.222800	0.00005	0.00000	-0.00001
	-0.228145	-0.044941	-0.223547	0.00008	0.00000	-0.00004
	-0.326208	0.158287	-0.217323	-0.00036	0.00000	0.00012
	-0.307591	0.145981	-0.218070	-0.00033	0.00000	0.00009
	-0.270024	-0.016595	-0.222068	0.00002	0.00000	0.00003
	-0.251407	-0.028900	-0.222815	0.00005	0.00000	0.00000
592	0.227187	0.122905	-0.269413	0.00031	0.00055	0.00014
	0.239589	0.058948	-0.228999	0.00014	0.00056	0.00021
	0.264681	-0.140560	-0.108598	-0.00036	0.00058	0.00046
	0.277083	-0.204517	-0.068184	-0.00053	0.00059	0.00053
	0.211223	0.203061	-0.315165	0.00050	0.00054	0.00006
	0.223625	0.139104	-0.274751	0.00033	0.00055	0.00013
	0.248717	-0.060403	-0.154350	-0.00017	0.00057	0.00038
	0.261119	-0.124360	-0.113936	-0.00034	0.00058	0.00045
	-0.280578	0.228141	-0.467826	0.00095	-0.00070	-0.00054
	-0.268176	0.164184	-0.427413	0.00078	-0.00069	-0.00047
	-0.243084	-0.035324	-0.307012	0.00028	-0.00067	-0.00022
	-0.230682	-0.099281	-0.266598	0.00011	-0.00066	-0.00015
	-0.296542	0.308298	-0.513578	0.00114	-0.00071	-0.00062
	-0.284140	0.244341	-0.473165	0.00097	-0.00070	-0.00055
	-0.259048	0.044833	-0.352764	0.00047	-0.00068	-0.00030
	-0.246646	-0.019124	-0.312350	0.00030	-0.00067	-0.00023
593	0.226191	0.128482	-0.337804	0.00043	0.00018	-0.00094
	0.238503	0.061519	-0.294100	0.00025	0.00012	-0.00101
	0.263395	-0.138976	-0.162973	-0.00028	-0.00003	-0.00114
	0.275707	-0.205939	-0.119269	-0.00046	-0.00008	-0.00121
	0.210337	0.212772	-0.387557	0.00063	0.00025	-0.00085
	0.222648	0.145810	-0.343853	0.00045	0.00019	-0.00092
	0.247541	-0.054686	-0.212726	-0.00008	0.00004	-0.00105
	0.259853	-0.121648	-0.169022	-0.00026	-0.00001	-0.00112
	-0.279959	0.235869	-0.403560	0.00087	-0.00007	0.00105
	-0.267647	0.168907	-0.359855	0.00069	-0.00012	0.00098
	-0.242754	-0.031589	-0.228728	0.00016	-0.00028	0.00085
	-0.230443	-0.098551	-0.185024	-0.00002	-0.00033	0.00077
	-0.295813	0.320160	-0.453312	0.00107	0.00000	0.00114
	-0.283501	0.253197	-0.409608	0.00089	-0.00005	0.00107
	-0.258608	0.052702	-0.278481	0.00036	-0.00021	0.00094
	-0.246297	-0.014260	-0.234777	0.00019	-0.00026	0.00087
594	0.225010	0.128920	-0.338546	0.00043	0.00000	0.00075
	0.237262	0.061544	-0.294349	0.00025	0.00002	0.00075
	0.262042	-0.138893	-0.162239	-0.00028	0.00011	0.00083
	0.274294	-0.206269	-0.118042	-0.00046	0.00013	0.00083
	0.209240	0.213811	-0.389048	0.00064	-0.00002	0.00075
	0.221491	0.146435	-0.344851	0.00046	0.00000	0.00075
	0.246272	-0.054001	-0.212741	-0.00008	0.00009	0.00083
	0.258523	-0.121378	-0.168544	-0.00026	0.00011	0.00083
	-0.279184	0.237662	-0.399385	0.00086	-0.00034	-0.00030
	-0.266932	0.170286	-0.355188	0.00067	-0.00032	-0.00031
	-0.242152	-0.030151	-0.223078	0.00014	-0.00023	-0.00022
	-0.229900	-0.097527	-0.178881	-0.00004	-0.00021	-0.00023
	-0.294954	0.322553	-0.449887	0.00106	-0.00036	-0.00031
	-0.282703	0.255177	-0.405690	0.00088	-0.00034	-0.00031
	-0.257922	0.054741	-0.273580	0.00035	-0.00025	-0.00023
	-0.245670	-0.012636	-0.229383	0.00016	-0.00023	-0.00023
595	0.224361	0.126156	-0.388699	0.00051	0.00046	-0.00045
	0.236635	0.055379	-0.347139	0.00035	0.00045	-0.00040
	0.261483	-0.147160	-0.224714	-0.00014	0.00044	-0.00020
	0.273757	-0.217937	-0.183153	-0.00030	0.00044	-0.00015
	0.208575	0.215786	-0.436545	0.00070	0.00047	-0.00050
	0.220849	0.145009	-0.394984	0.00053	0.00046	-0.00045
	0.245696	-0.057530	-0.272559	0.00005	0.00045	-0.00025
	0.257970	-0.128307	-0.230999	-0.00012	0.00045	-0.00020
	-0.278634	0.250762	-0.334269	0.00074	-0.00031	-0.00014
	-0.266360	0.179985	-0.292708	0.00057	-0.00031	-0.00009
	-0.241513	-0.022554	-0.170283	0.00008	-0.00032	0.00011
	-0.229239	-0.093331	-0.128723	-0.00008	-0.00033	0.00016
	-0.294421	0.340392	-0.382114	0.00092	-0.00030	-0.00019
	-0.282147	0.269615	-0.340554	0.00076	-0.00030	-0.00014
	-0.257299	0.067076	-0.218129	0.00027	-0.00032	0.00006
	-0.245025	-0.003701	-0.176568	0.00011	-0.00032	0.00011
596	0.221531	0.123512	-0.239718	-0.00021	0.00044	0.00004
	0.237804	0.059837	-0.232054	-0.00011	0.00044	0.00002
	0.270082	-0.138785	-0.208295	0.00021	0.00039	-0.00003
	0.286356	-0.202461	-0.200630	0.00031	0.00039	-0.00005
	0.200275	0.203401	-0.248801	-0.00032	0.00043	0.00007
	0.216548	0.139725	-0.241136	-0.00022	0.00044	0.00005
	0.248826	-0.058897	-0.217377	0.00009	0.00039	0.00000
	0.265100	-0.122572	-0.209713	0.00019	0.00039	-0.00002
	-0.294006	0.227360	-0.246053	-0.00041	-0.00021	0.00007

	-0.277733	0.163684	-0.238389	-0.00031	-0.00021	0.00005
	-0.245455	-0.034938	-0.214629	0.00000	-0.00026	0.00000
	-0.229182	-0.098613	-0.206965	0.00010	-0.00025	-0.00002
	-0.315262	0.307248	-0.255135	-0.00053	-0.00021	0.00010
	-0.298989	0.243573	-0.247471	-0.00043	-0.00021	0.00008
	-0.266711	0.044950	-0.223711	-0.00012	-0.00026	0.00003
	-0.250437	-0.018725	-0.216047	-0.00001	-0.00026	0.00001
597	0.222036	0.127299	-0.269355	0.00009	-0.00007	-0.00004
	0.238292	0.060332	-0.258463	0.00005	-0.00009	-0.00006
	0.270508	-0.140108	-0.224260	-0.00009	-0.00013	0.00003
	0.286764	-0.207076	-0.213368	-0.00013	-0.00015	0.00000
	0.200775	0.211622	-0.282192	0.00014	-0.00005	-0.00001
	0.217031	0.144655	-0.271300	0.00010	-0.00007	-0.00003
	0.249247	-0.055786	-0.237097	-0.00004	-0.00011	0.00006
	0.265503	-0.122753	-0.226205	-0.00008	-0.00013	0.00003
	-0.294339	0.236684	-0.250151	0.00023	0.00003	0.00002
	-0.278083	0.169717	-0.239259	0.00019	0.00001	0.00000
	-0.245867	-0.030724	-0.205057	0.00006	-0.00003	0.00008
	-0.229611	-0.097691	-0.194165	0.00001	-0.00005	0.00006
	-0.315600	0.321007	-0.262988	0.00028	0.00005	0.00005
	-0.299344	0.254040	-0.252096	0.00024	0.00003	0.00003
	-0.267128	0.053599	-0.217893	0.00011	-0.00001	0.00011
	-0.250872	-0.013368	-0.207001	0.00006	-0.00003	0.00009
598	0.222413	0.127473	-0.266936	0.00011	-0.00012	-0.00005
	0.238687	0.059964	-0.255618	0.00007	-0.00014	-0.00007
	0.270931	-0.140795	-0.220417	-0.00006	-0.00018	0.00002
	0.287205	-0.208303	-0.209099	-0.00011	-0.00019	-0.00001
	0.201125	0.212542	-0.280278	0.00016	-0.00010	-0.00002
	0.217398	0.145033	-0.268959	0.00012	-0.00012	-0.00004
	0.249642	-0.055726	-0.233759	-0.00001	-0.00016	0.00005
	0.265916	-0.123235	-0.222440	-0.00006	-0.00017	0.00003
	-0.294565	0.238402	-0.250273	0.00021	-0.00001	0.00002
	-0.278291	0.170893	-0.238955	0.00016	-0.00003	0.00000
	-0.246048	-0.029866	-0.203754	0.00003	-0.00007	0.00009
	-0.229774	-0.097375	-0.192436	-0.00001	-0.00008	0.00007
	-0.315854	0.323470	-0.263615	0.00026	0.00001	0.00005
	-0.299580	0.255962	-0.252296	0.00021	-0.00001	0.00003
	-0.267336	0.055203	-0.217096	0.00008	-0.00005	0.00012
	-0.251062	-0.012306	-0.205777	0.00004	-0.00006	0.00010
599	0.223240	0.125725	-0.245982	-0.00019	0.00011	0.00000
	0.239586	0.054588	-0.236108	-0.00007	0.00014	-0.00002
	0.271961	-0.148936	-0.204895	0.00025	0.00022	-0.00007
	0.288308	-0.220073	-0.195022	0.00037	0.00025	-0.00009
	0.201855	0.215802	-0.257782	-0.00031	0.00008	0.00003
	0.218201	0.144666	-0.247909	-0.00020	0.00011	0.00001
	0.250576	-0.058859	-0.216696	0.00013	0.00018	-0.00004
	0.266922	-0.129996	-0.206822	0.00024	0.00021	-0.00006
	-0.294951	0.250845	-0.211521	-0.00042	-0.00047	0.00008
	-0.278605	0.179709	-0.201647	-0.00031	-0.00044	0.00006
	-0.246229	-0.023816	-0.170434	0.00001	-0.00037	0.00001
	-0.229883	-0.094953	-0.160560	0.00013	-0.00034	-0.00001
	-0.316336	0.340923	-0.223321	-0.00055	-0.00051	0.00012
	-0.299990	0.269786	-0.213448	-0.00044	-0.00048	0.00009
	-0.267614	0.066261	-0.182234	-0.00011	-0.00040	0.00004
	-0.251268	-0.004876	-0.172361	0.00000	-0.00037	0.00002
600	0.267189	0.141440	-0.117929	-0.00024	0.00050	0.00002
	0.260388	0.163014	-0.115660	-0.00027	0.00049	-0.00001
	0.246620	-0.046136	-0.139004	0.00007	0.00046	-0.00007
	0.239819	-0.024562	-0.136735	0.00003	0.00045	-0.00010
	0.275886	0.115328	-0.120442	-0.00020	0.00051	0.00005
	0.269085	0.136903	-0.118174	-0.00023	0.00050	0.00002
	0.255317	-0.072247	-0.141517	0.00011	0.00047	-0.00003
	0.248516	-0.050673	-0.139249	0.00007	0.00046	-0.00006
	-0.243420	0.113607	-0.126228	-0.00017	-0.00046	0.00009
	-0.250221	0.135181	-0.123959	-0.00020	-0.00047	0.00006
	-0.263989	-0.073969	-0.147303	0.00014	-0.00050	0.00000
	-0.270790	-0.052395	-0.145034	0.00010	-0.00051	-0.00003
	-0.234723	0.087495	-0.128741	-0.00013	-0.00045	0.00012
	-0.241524	0.109069	-0.126473	-0.00016	-0.00046	0.00009
	-0.255292	-0.100081	-0.149816	0.00018	-0.00049	0.00003
	-0.262093	-0.078506	-0.147548	0.00014	-0.00050	0.00000
601	0.274262	0.130617	-0.207217	-0.00020	0.00000	0.00003
	0.295534	0.117786	-0.206432	-0.00018	0.00000	0.00000
	0.338912	-0.073220	-0.211941	0.00011	0.00000	-0.00007
	0.360184	-0.086051	-0.211157	0.00013	0.00000	-0.00011
	0.248078	0.147060	-0.208167	-0.00023	0.00000	0.00007
	0.269351	0.134229	-0.207383	-0.00021	0.00000	0.00004
	0.312728	-0.056776	-0.212892	0.00009	0.00000	-0.00003
	0.334000	-0.069607	-0.212107	0.00011	0.00000	-0.00007
	-0.347045	0.164801	-0.245093	-0.00024	0.00000	0.00009
	-0.325772	0.151970	-0.244308	-0.00022	0.00000	0.00006
	-0.282395	-0.039035	-0.249817	0.00007	0.00000	-0.00001
	-0.261122	-0.051866	-0.249032	0.00009	0.00000	-0.00005



	-0.373229	0.181245	-0.246043	-0.00027	0.00000	0.00013
	-0.351956	0.168414	-0.245258	-0.00025	0.00000	0.00010
	-0.308579	-0.022592	-0.250767	0.00005	0.00000	0.00003
	-0.287306	-0.035423	-0.249983	0.00007	0.00000	-0.00001
602	0.274530	0.130398	-0.220167	-0.00020	0.00000	0.00003
	0.295803	0.116538	-0.220269	-0.00018	0.00000	0.00000
	0.339181	-0.074301	-0.224266	0.00011	0.00000	-0.00007
	0.360455	-0.088161	-0.224368	0.00013	0.00000	-0.00011
	0.248344	0.148091	-0.220169	-0.00023	0.00000	0.00008
	0.269618	0.134231	-0.220271	-0.00021	0.00000	0.00004
	0.312996	-0.056608	-0.224268	0.00009	0.00000	-0.00003
	0.334269	-0.070468	-0.224370	0.00011	0.00000	-0.00007
	-0.346800	0.166399	-0.232374	-0.00025	0.00000	0.00009
	-0.325527	0.152540	-0.232476	-0.00022	0.00000	0.00006
	-0.282149	-0.038300	-0.236473	0.00007	0.00000	-0.00001
	-0.260876	-0.052159	-0.236575	0.00009	0.00000	-0.00005
	-0.372986	0.184093	-0.232376	-0.00027	0.00000	0.00014
	-0.351713	0.170233	-0.232478	-0.00025	0.00000	0.00010
	-0.308335	-0.020606	-0.236475	0.00005	0.00000	0.00003
	-0.287061	-0.034466	-0.236577	0.00007	0.00000	0.00000
603	0.274615	0.130376	-0.224270	-0.00020	0.00000	0.00004
	0.295888	0.116170	-0.224666	-0.00018	0.00000	0.00000
	0.339264	-0.074658	-0.228567	0.00011	0.00000	-0.00007
	0.360537	-0.088864	-0.228963	0.00013	0.00000	-0.00011
	0.248431	0.148489	-0.223958	-0.00023	0.00000	0.00008
	0.269703	0.134283	-0.224354	-0.00021	0.00000	0.00004
	0.313080	-0.056545	-0.228255	0.00009	0.00000	-0.00003
	0.334353	-0.070751	-0.228651	0.00011	0.00000	-0.00006
	-0.346693	0.166985	-0.227955	-0.00025	0.00000	0.00010
	-0.325420	0.152779	-0.228351	-0.00022	0.00000	0.00006
	-0.282044	-0.038049	-0.232252	0.00007	0.00000	-0.00001
	-0.260771	-0.052254	-0.232648	0.00009	0.00000	-0.00005
	-0.372877	0.185098	-0.227643	-0.00027	0.00000	0.00014
	-0.351605	0.170892	-0.228039	-0.00025	0.00000	0.00010
	-0.308228	-0.019936	-0.231940	0.00004	0.00000	0.00003
	-0.286955	-0.034141	-0.232336	0.00007	0.00000	0.00000
604	0.274684	0.130371	-0.228296	-0.00020	0.00000	0.00004
	0.295956	0.115819	-0.228989	-0.00018	0.00000	0.00000
	0.339331	-0.075019	-0.232988	0.00011	0.00000	-0.00007
	0.360603	-0.089572	-0.233681	0.00014	0.00000	-0.00011
	0.248501	0.148906	-0.227666	-0.00023	0.00000	0.00008
	0.269773	0.134353	-0.228359	-0.00021	0.00000	0.00004
	0.313149	-0.056485	-0.232358	0.00009	0.00000	-0.00003
	0.334420	-0.071038	-0.233051	0.00011	0.00000	-0.00006
	-0.346596	0.167588	-0.223351	-0.00025	0.00000	0.00010
	-0.325324	0.153035	-0.224044	-0.00022	0.00000	0.00006
	-0.281949	-0.037803	-0.228043	0.00007	0.00000	-0.00001
	-0.260677	-0.052356	-0.228736	0.00009	0.00000	-0.00004
	-0.372779	0.186122	-0.222721	-0.00027	0.00000	0.00014
	-0.351507	0.171569	-0.223414	-0.00025	0.00000	0.00011
	-0.308131	-0.019269	-0.227413	0.00004	0.00000	0.00003
	-0.286860	-0.033822	-0.228106	0.00007	0.00000	0.00000
605	0.293716	0.180700	-0.119369	-0.00017	0.00049	0.00002
	0.280008	0.214115	-0.118272	-0.00021	0.00047	-0.00001
	0.252004	-0.041385	-0.131111	0.00012	0.00042	-0.00008
	0.238295	-0.007970	-0.130015	0.00007	0.00040	-0.00011
	0.310934	0.140110	-0.120531	-0.00012	0.00052	0.00007
	0.297225	0.173526	-0.119434	-0.00016	0.00050	0.00003
	0.269221	-0.081975	-0.132273	0.00017	0.00045	-0.00004
	0.255513	-0.048560	-0.131176	0.00012	0.00043	-0.00007
	-0.259111	0.121500	-0.171859	-0.00020	-0.00039	0.00009
	-0.272819	0.154915	-0.170762	-0.00024	-0.00041	0.00006
	-0.300823	-0.100585	-0.183601	0.00009	-0.00046	-0.00001
	-0.314531	-0.067170	-0.182504	0.00004	-0.00048	-0.00004
	-0.241893	0.080911	-0.173021	-0.00015	-0.00036	0.00014
	-0.255601	0.114326	-0.171924	-0.00019	-0.00039	0.00010
	-0.283605	-0.141174	-0.184763	0.00014	-0.00044	0.00003
	-0.297313	-0.107759	-0.183666	0.00009	-0.00046	0.00000
606	0.291269	0.161149	-0.062048	-0.00014	-0.00005	0.00005
	0.277532	0.188476	-0.056476	-0.00015	-0.00008	0.00001
	0.249411	-0.050494	-0.124758	0.00013	0.00016	-0.00006
	0.235675	-0.023168	-0.119186	0.00011	0.00013	-0.00009
	0.308526	0.128133	-0.068164	-0.00012	-0.00002	0.00009
	0.294790	0.155459	-0.062593	-0.00014	-0.00005	0.00005
	0.266668	-0.083511	-0.130875	0.00015	0.00019	-0.00002
	0.252932	-0.056184	-0.125303	0.00013	0.00016	-0.00005
	-0.258519	0.122287	-0.154030	-0.00002	-0.00028	-0.00004
	-0.272255	0.149613	-0.148458	-0.00004	-0.00030	-0.00007
	-0.300376	-0.089357	-0.216740	0.00024	-0.00007	-0.00015
	-0.314112	-0.062030	-0.211168	0.00023	-0.00010	-0.00018
	-0.241262	0.089270	-0.160146	-0.00001	-0.00024	0.00000
	-0.254998	0.116597	-0.154575	-0.00002	-0.00027	-0.00003
	-0.283119	-0.122373	-0.222857	0.00026	-0.00003	-0.00011

	-0.296855	-0.095046	-0.217285	0.00025	-0.00006	-0.00014
607	0.298340	0.182879	-0.036593	0.00029	0.00023	-0.00022
	0.290741	0.216426	-0.035760	0.00026	0.00024	-0.00027
	0.275246	-0.040070	-0.049862	0.00041	0.00026	-0.00007
	0.267646	-0.006523	-0.049029	0.00039	0.00026	-0.00011
	0.307951	0.142145	-0.037283	0.00031	0.00023	-0.00016
	0.300351	0.175692	-0.036450	0.00029	0.00023	-0.00021
	0.284856	-0.080804	-0.050552	0.00044	0.00025	-0.00001
	0.277257	-0.047257	-0.049719	0.00041	0.00026	-0.00006
	-0.273245	0.122255	-0.245571	-0.00034	-0.00049	-0.00001
	-0.280845	0.155802	-0.244738	-0.00036	-0.00049	-0.00006
	-0.296340	-0.100694	-0.258840	-0.00021	-0.00047	0.00014
	-0.303939	-0.067147	-0.258007	-0.00023	-0.00046	0.00009
	-0.263635	0.081521	-0.246261	-0.00031	-0.00049	0.00004
	-0.271234	0.115068	-0.245428	-0.00033	-0.00049	0.00000
	-0.286729	-0.141428	-0.259530	-0.00019	-0.00047	0.00020
	-0.294329	-0.107881	-0.258697	-0.00021	-0.00046	0.00015
608	0.297300	0.161835	-0.076319	-0.00021	0.00037	0.00001
	0.289763	0.189119	-0.074625	-0.00025	0.00036	-0.00002
	0.274403	-0.049792	-0.097004	0.00008	0.00041	-0.00009
	0.266866	-0.022508	-0.095311	0.00004	0.00040	-0.00013
	0.306840	0.128859	-0.078128	-0.00017	0.00038	0.00005
	0.299303	0.156142	-0.076435	-0.00020	0.00037	0.00002
	0.283944	-0.082768	-0.098814	0.00012	0.00042	-0.00005
	0.276407	-0.055485	-0.097120	0.00009	0.00041	-0.00009
	-0.272526	0.122403	-0.170637	-0.00018	-0.00045	0.00010
	-0.280063	0.149687	-0.168943	-0.00022	-0.00047	0.00007
	-0.295422	-0.089224	-0.191323	0.00011	-0.00041	0.00000
	-0.302959	-0.061940	-0.189629	0.00007	-0.00043	-0.00004
	-0.262985	0.089427	-0.172447	-0.00014	-0.00044	0.00014
	-0.270522	0.116710	-0.170753	-0.00017	-0.00045	0.00011
	-0.285882	-0.122200	-0.193132	0.00015	-0.00040	0.00004
	-0.293419	-0.094917	-0.191439	0.00012	-0.00041	0.00001
609	0.320876	0.177106	-0.100213	-0.00027	0.00041	0.00003
	0.316135	0.206738	-0.101735	-0.00030	0.00040	-0.00001
	0.306333	-0.052427	-0.093284	0.00002	0.00039	-0.00008
	0.301593	-0.022795	-0.094806	-0.00001	0.00038	-0.00012
	0.326918	0.141463	-0.098374	-0.00023	0.00041	0.00008
	0.322178	0.171095	-0.099896	-0.00026	0.00041	0.00004
	0.312376	-0.088070	-0.091446	0.00006	0.00039	-0.00004
	0.307635	-0.058438	-0.092968	0.00003	0.00039	-0.00008
	-0.307101	0.133332	-0.187586	-0.00014	-0.00042	0.00010
	-0.311841	0.162964	-0.189108	-0.00018	-0.00043	0.00006
	-0.321643	-0.096202	-0.180657	0.00014	-0.00044	-0.00002
	-0.326383	-0.066570	-0.182179	0.00011	-0.00045	-0.00006
	-0.301058	0.097689	-0.185747	-0.00010	-0.00041	0.00014
	-0.305799	0.127321	-0.187270	-0.00014	-0.00042	0.00010
	-0.315600	-0.131844	-0.178819	0.00018	-0.00043	0.00003
	-0.320341	-0.102212	-0.180341	0.00015	-0.00044	-0.00001
610	0.336920	0.249149	-0.170409	-0.00039	0.00039	0.00003
	0.322003	0.319798	-0.166797	-0.00046	0.00038	-0.00001
	0.291458	-0.054730	-0.190999	-0.00005	0.00035	-0.00009
	0.276541	0.015919	-0.187388	-0.00013	0.00034	-0.00013
	0.355379	0.163502	-0.174222	-0.00031	0.00040	0.00007
	0.340462	0.234151	-0.170610	-0.00038	0.00039	0.00004
	0.309917	-0.140377	-0.194812	0.00003	0.00037	-0.00004
	0.294999	-0.069728	-0.191201	-0.00005	0.00035	-0.00008
	-0.290606	0.129271	-0.238076	-0.00024	-0.00019	0.00010
	-0.305523	0.199920	-0.234465	-0.00031	-0.00020	0.00006
	-0.336069	-0.174608	-0.258666	0.00009	-0.00022	-0.00002
	-0.350986	-0.103959	-0.255055	0.00002	-0.00023	-0.00005
	-0.272147	0.043624	-0.241889	-0.00016	-0.00017	0.00015
	-0.287065	0.114273	-0.238278	-0.00023	-0.00019	0.00011
	-0.317610	-0.260255	-0.262480	0.00017	-0.00021	0.00003
	-0.332527	-0.189606	-0.258868	0.00010	-0.00022	-0.00001
611	0.336934	0.216862	-0.156499	-0.00038	0.00010	0.00003
	0.322017	0.269422	-0.154574	-0.00044	0.00010	-0.00001
	0.291472	-0.051585	-0.170267	-0.00009	0.00008	-0.00009
	0.276555	0.000975	-0.168342	-0.00014	0.00007	-0.00013
	0.355392	0.153304	-0.158490	-0.00032	0.00011	0.00007
	0.340475	0.205864	-0.156565	-0.00038	0.00010	0.00004
	0.309931	-0.115144	-0.172259	-0.00002	0.00009	-0.00004
	0.295014	-0.062584	-0.170333	-0.00008	0.00008	-0.00008
	-0.290597	0.130417	-0.212962	-0.00028	-0.00024	0.00010
	-0.305514	0.182977	-0.211036	-0.00033	-0.00025	0.00006
	-0.336058	-0.138031	-0.226730	0.00002	-0.00027	-0.00002
	-0.350975	-0.085471	-0.224805	-0.00004	-0.00028	-0.00006
	-0.272139	0.066858	-0.214953	-0.00021	-0.00024	0.00014
	-0.287056	0.119418	-0.213028	-0.00027	-0.00024	0.00011
	-0.317600	-0.201590	-0.228721	0.00008	-0.00026	0.00003
	-0.332517	-0.149030	-0.226796	0.00003	-0.00027	-0.00001
612	0.336961	0.191580	-0.120795	-0.00010	0.00040	0.00002

	0.322045	0.228376	-0.119653	-0.00014	0.00039	-0.00001
	0.291502	-0.052024	-0.132894	0.00017	0.00036	-0.00009
	0.276586	-0.015228	-0.131751	0.00013	0.00035	-0.00013
	0.355417	0.147261	-0.122006	-0.00005	0.00041	0.00007
	0.340501	0.184057	-0.120863	-0.00009	0.00040	0.00003
	0.309959	-0.096343	-0.134104	0.00022	0.00037	-0.00005
	0.295042	-0.059547	-0.132962	0.00018	0.00036	-0.00008
	-0.290597	0.134396	-0.174361	-0.00022	-0.00027	0.00010
	-0.305513	0.171192	-0.173218	-0.00027	-0.00028	0.00007
	-0.336056	-0.109207	-0.186459	0.00005	-0.00031	-0.00001
	-0.350972	-0.072411	-0.185316	0.00000	-0.00032	-0.00005
	-0.272141	0.090077	-0.175571	-0.00018	-0.00026	0.00015
	-0.287057	0.126873	-0.174428	-0.00022	-0.00027	0.00011
	-0.317600	-0.153526	-0.187670	0.00009	-0.00030	0.00003
	-0.332516	-0.116730	-0.186527	0.00005	-0.00031	0.00000
613	0.337041	0.163997	-0.177783	-0.00033	0.00029	0.00002
	0.322126	0.179780	-0.173733	-0.00035	0.00028	-0.00001
	0.291587	-0.058797	-0.200978	-0.00007	0.00026	-0.00009
	0.276672	-0.043014	-0.196927	-0.00009	0.00024	-0.00013
	0.355493	0.145325	-0.182855	-0.00030	0.00031	0.00007
	0.340578	0.161108	-0.178805	-0.00032	0.00029	0.00003
	0.310040	-0.077469	-0.206050	-0.00004	0.00027	-0.00005
	0.295125	-0.061686	-0.202000	-0.00006	0.00026	-0.00009
	-0.290619	0.145611	-0.079066	-0.00031	-0.00026	0.00010
	-0.305534	0.161394	-0.075015	-0.00033	-0.00027	0.00006
	-0.336072	-0.077182	-0.102260	-0.00005	-0.00030	-0.00002
	-0.350987	-0.061399	-0.098210	-0.00007	-0.00031	-0.00006
	-0.272166	0.126939	-0.084138	-0.00028	-0.00025	0.00014
	-0.287081	0.142722	-0.080088	-0.00030	-0.00026	0.00011
	-0.317620	-0.095854	-0.107332	-0.00002	-0.00029	0.00003
	-0.332535	-0.080071	-0.103282	-0.00004	-0.00030	-0.00001
614	0.337074	0.150573	-0.203333	-0.00031	0.00039	0.00003
	0.322159	0.153522	-0.202485	-0.00032	0.00037	-0.00001
	0.291619	-0.068017	-0.208729	-0.00012	0.00035	-0.00009
	0.276704	-0.065067	-0.207881	-0.00013	0.00034	-0.00013
	0.355527	0.147552	-0.204394	-0.00031	0.00040	0.00008
	0.340611	0.150502	-0.203545	-0.00031	0.00039	0.00004
	0.310072	-0.071038	-0.209790	-0.00011	0.00036	-0.00004
	0.295156	-0.068088	-0.208942	-0.00012	0.00035	-0.00008
	-0.290642	0.157833	-0.175765	-0.00030	-0.00014	0.00010
	-0.305558	0.160783	-0.174917	-0.00030	-0.00015	0.00006
	-0.336097	-0.060757	-0.181162	-0.00011	-0.00018	-0.00002
	-0.351013	-0.057807	-0.180313	-0.00011	-0.00019	-0.00006
	-0.272190	0.154813	-0.176826	-0.00029	-0.00013	0.00015
	-0.287106	0.157762	-0.175977	-0.00030	-0.00014	0.00011
	-0.317645	-0.063777	-0.182222	-0.00010	-0.00017	0.00003
	-0.332561	-0.060827	-0.181374	-0.00011	-0.00018	-0.00001
615	0.337120	0.139401	-0.221775	-0.00018	0.00031	0.00003
	0.322203	0.124256	-0.221643	-0.00017	0.00029	-0.00001
	0.291662	-0.085013	-0.228360	0.00000	0.00026	-0.00009
	0.276745	-0.100158	-0.228228	0.00001	0.00025	-0.00013
	0.355574	0.158451	-0.222128	-0.00019	0.00032	0.00007
	0.340657	0.143306	-0.221996	-0.00018	0.00031	0.00003
	0.310116	-0.065963	-0.228713	-0.00001	0.00028	-0.00004
	0.295199	-0.081108	-0.228581	0.00000	0.00026	-0.00008
	-0.290676	0.178991	-0.200371	-0.00022	-0.00028	0.00010
	-0.305593	0.163846	-0.200239	-0.00021	-0.00029	0.00006
	-0.336134	-0.045423	-0.206956	-0.00004	-0.00032	-0.00002
	-0.351051	-0.060568	-0.206824	-0.00003	-0.00034	-0.00006
	-0.272222	0.198041	-0.200724	-0.00023	-0.00027	0.00015
	-0.287139	0.182896	-0.200592	-0.00022	-0.00028	0.00011
	-0.317680	-0.026373	-0.207309	-0.00005	-0.00031	0.00003
	-0.332597	-0.041518	-0.207177	-0.00004	-0.00032	-0.00001
616	0.337157	0.134260	-0.223761	-0.00016	0.00030	0.00003
	0.322239	0.102188	-0.224589	-0.00014	0.00028	-0.00001
	0.291699	-0.107170	-0.232634	0.00004	0.00026	-0.00009
	0.276781	-0.139243	-0.233461	0.00006	0.00024	-0.00013
	0.355612	0.173960	-0.223001	-0.00019	0.00031	0.00007
	0.340695	0.141888	-0.223828	-0.00016	0.00030	0.00004
	0.310154	-0.067470	-0.231874	0.00001	0.00027	-0.00004
	0.295236	-0.099543	-0.232701	0.00004	0.00026	-0.00008
	-0.290705	0.205048	-0.211275	-0.00022	-0.00028	0.00010
	-0.305622	0.172976	-0.212102	-0.00020	-0.00029	0.00006
	-0.336163	-0.036382	-0.220148	-0.00003	-0.00032	-0.00002
	-0.351081	-0.068455	-0.220975	0.00000	-0.00033	-0.00006
	-0.272250	0.244748	-0.210514	-0.00025	-0.00026	0.00015
	-0.287167	0.212676	-0.211342	-0.00022	-0.00028	0.00011
	-0.317708	0.003318	-0.219387	-0.00005	-0.00030	0.00003
	-0.332625	-0.028754	-0.220214	-0.00003	-0.00032	-0.00001
617	0.337182	0.133516	-0.223463	-0.00015	0.00032	0.00003
	0.322265	0.085686	-0.225455	-0.00011	0.00030	-0.00001
	0.291725	-0.131919	-0.235337	0.00007	0.00028	-0.00009
	0.276809	-0.179749	-0.237328	0.00011	0.00026	-0.00013

	0.355638	0.192451	-0.221305	-0.00019	0.00033	0.00007
	0.340721	0.144621	-0.223296	-0.00015	0.00032	0.00004
	0.310182	-0.072984	-0.233178	0.00003	0.00029	-0.00004
	0.295265	-0.120814	-0.235170	0.00007	0.00028	-0.00008
	-0.290727	0.233415	-0.214895	-0.00023	-0.00026	0.00010
	-0.305643	0.185586	-0.216887	-0.00019	-0.00027	0.00006
	-0.336183	-0.032019	-0.226769	-0.00001	-0.00030	-0.00002
	-0.351099	-0.079849	-0.228761	0.00003	-0.00031	-0.00006
	-0.272270	0.292350	-0.212737	-0.00027	-0.00025	0.00015
	-0.287187	0.244521	-0.214729	-0.00023	-0.00026	0.00011
	-0.317726	0.026916	-0.224610	-0.00005	-0.00029	0.00003
	-0.332643	-0.020914	-0.226602	-0.00001	-0.00030	-0.00001
618	0.337203	0.136040	-0.223619	-0.00013	0.00031	0.00003
	0.322288	0.071290	-0.227529	-0.00008	0.00030	-0.00001
	0.291751	-0.161718	-0.241347	0.00012	0.00027	-0.00009
	0.276835	-0.226468	-0.245258	0.00017	0.00026	-0.00013
	0.355659	0.215619	-0.219142	-0.00019	0.00032	0.00007
	0.340744	0.150869	-0.223053	-0.00014	0.00031	0.00004
	0.310206	-0.082139	-0.236871	0.00006	0.00028	-0.00004
	0.295291	-0.146889	-0.240782	0.00012	0.00027	-0.00008
	-0.290743	0.267149	-0.212805	-0.00025	-0.00028	0.00010
	-0.305658	0.202399	-0.216716	-0.00020	-0.00029	0.00006
	-0.336196	-0.030608	-0.230534	0.00000	-0.00032	-0.00002
	-0.351111	-0.095359	-0.234445	0.00005	-0.00033	-0.00006
	-0.272287	0.346728	-0.208329	-0.00031	-0.00027	0.00015
	-0.287203	0.281978	-0.212240	-0.00026	-0.00028	0.00011
	-0.317740	0.048970	-0.226057	-0.00006	-0.00030	0.00003
	-0.332656	-0.015780	-0.229968	0.00000	-0.00032	-0.00001
619	0.337218	0.140990	-0.224157	-0.00020	0.00022	0.00003
	0.322305	0.059328	-0.231170	-0.00013	0.00021	-0.00001
	0.291771	-0.193925	-0.252592	0.00008	0.00026	-0.00009
	0.276857	-0.275587	-0.259604	0.00015	0.00025	-0.00013
	0.355673	0.241205	-0.215908	-0.00027	0.00023	0.00007
	0.340759	0.159543	-0.222921	-0.00020	0.00022	0.00004
	0.310225	-0.093711	-0.244343	0.00001	0.00027	-0.00004
	0.295311	-0.175372	-0.251355	0.00008	0.00026	-0.00008
	-0.290754	0.303320	-0.195940	-0.00039	-0.00038	0.00010
	-0.305668	0.221658	-0.202952	-0.00032	-0.00039	0.00006
	-0.336202	-0.031595	-0.224374	-0.00010	-0.00035	-0.00002
	-0.351115	-0.113257	-0.231387	-0.00003	-0.00036	-0.00006
	-0.272300	0.403534	-0.187691	-0.00046	-0.00037	0.00014
	-0.287214	0.321872	-0.194703	-0.00039	-0.00038	0.00011
	-0.317747	0.068619	-0.216126	-0.00017	-0.00034	0.00003
	-0.332661	-0.013043	-0.223138	-0.00010	-0.00035	-0.00001
620	0.337227	0.146044	-0.228014	-0.00020	0.00018	0.00003
	0.322313	0.051357	-0.237890	-0.00010	0.00017	-0.00001
	0.291780	-0.219894	-0.267096	0.00020	0.00021	-0.00009
	0.276867	-0.314581	-0.276972	0.00029	0.00020	-0.00013
	0.355681	0.262162	-0.216246	-0.00030	0.00019	0.00007
	0.340768	0.167476	-0.226122	-0.00020	0.00018	0.00004
	0.310235	-0.103776	-0.255328	0.00009	0.00022	-0.00004
	0.295321	-0.198463	-0.265204	0.00019	0.00021	-0.00008
	-0.290762	0.332329	-0.157227	-0.00039	-0.00033	0.00010
	-0.305676	0.237642	-0.167103	-0.00029	-0.00034	0.00006
	-0.336209	-0.033610	-0.196308	0.00000	-0.00030	-0.00002
	-0.351122	-0.128296	-0.206185	0.00010	-0.00031	-0.00006
	-0.272308	0.448447	-0.145459	-0.00049	-0.00032	0.00014
	-0.287221	0.353760	-0.155335	-0.00039	-0.00033	0.00011
	-0.317754	0.082509	-0.184540	-0.00010	-0.00030	0.00003
	-0.332668	-0.012178	-0.194417	0.00000	-0.00030	-0.00001
621	0.331998	0.182272	-0.076898	-0.00027	0.00042	0.00002
	0.323525	0.212623	-0.075219	-0.00031	0.00041	-0.00002
	0.306143	-0.053286	-0.097535	0.00003	0.00039	-0.00010
	0.297669	-0.022935	-0.095856	0.00000	0.00038	-0.00014
	0.342588	0.145821	-0.078656	-0.00023	0.00043	0.00007
	0.334115	0.176173	-0.076977	-0.00026	0.00042	0.00003
	0.316733	-0.089737	-0.099293	0.00008	0.00040	-0.00005
	0.308259	-0.059386	-0.097614	0.00004	0.00039	-0.00009
	-0.306574	0.136969	-0.170948	-0.00018	-0.00042	0.00010
	-0.315048	0.167320	-0.169269	-0.00022	-0.00043	0.00006
	-0.332429	-0.098589	-0.191585	0.00012	-0.00045	-0.00002
	-0.340903	-0.068238	-0.189906	0.00008	-0.00046	-0.00006
	-0.295984	0.100518	-0.172706	-0.00014	-0.00040	0.00015
	-0.304457	0.130870	-0.171027	-0.00018	-0.00042	0.00011
	-0.321839	-0.135040	-0.193343	0.00017	-0.00044	0.00003
	-0.330313	-0.104689	-0.191664	0.00013	-0.00045	-0.00001
622	0.332020	0.176569	-0.118658	-0.00025	0.00040	0.00003
	0.323547	0.202836	-0.116308	-0.00028	0.00039	-0.00001
	0.306165	-0.054615	-0.140198	0.00005	0.00041	-0.00009
	0.297691	-0.028348	-0.137849	0.00001	0.00041	-0.00013
	0.342611	0.145102	-0.121196	-0.00021	0.00040	0.00007
	0.334137	0.171369	-0.118847	-0.00025	0.00040	0.00003
	0.316755	-0.086082	-0.142737	0.00008	0.00041	-0.00005

	0.308281	-0.059814	-0.140387	0.00005	0.00041	-0.00009
	-0.306585	0.139073	-0.126559	-0.00018	-0.00043	0.00010
	-0.315059	0.165340	-0.124210	-0.00021	-0.00044	0.00006
	-0.332441	-0.092111	-0.148100	0.00012	-0.00042	-0.00002
	-0.340915	-0.065844	-0.145750	0.00008	-0.00042	-0.00006
	-0.295995	0.107607	-0.129098	-0.00014	-0.00043	0.00015
	-0.304468	0.133874	-0.126749	-0.00018	-0.00043	0.00011
	-0.321850	-0.123577	-0.150639	0.00015	-0.00042	0.00003
	-0.330324	-0.097310	-0.148289	0.00012	-0.00042	-0.00001
623	0.332023	0.171433	-0.160539	-0.00024	0.00038	0.00003
	0.323550	0.193618	-0.157516	-0.00027	0.00037	-0.00001
	0.306167	-0.055983	-0.183443	0.00006	0.00042	-0.00009
	0.297693	-0.033799	-0.180419	0.00003	0.00041	-0.00013
	0.342614	0.144947	-0.163851	-0.00021	0.00039	0.00008
	0.334140	0.167132	-0.160828	-0.00024	0.00038	0.00004
	0.316757	-0.082470	-0.186755	0.00009	0.00044	-0.00004
	0.308283	-0.060285	-0.183731	0.00006	0.00042	-0.00008
	-0.306588	0.141407	-0.081559	-0.00018	-0.00040	0.00010
	-0.315062	0.163591	-0.078535	-0.00021	-0.00041	0.00006
	-0.332444	-0.086010	-0.104463	0.00011	-0.00036	-0.00002
	-0.340918	-0.063826	-0.101439	0.00009	-0.00037	-0.00006
	-0.295998	0.114921	-0.084871	-0.00015	-0.00039	0.00015
	-0.304471	0.137105	-0.081847	-0.00018	-0.00040	0.00011
	-0.321854	-0.112496	-0.107775	0.00014	-0.00035	0.00003
	-0.330328	-0.090312	-0.104751	0.00012	-0.00036	-0.00001
624	0.329234	0.182024	-0.100068	-0.00022	0.00040	0.00004
	0.324356	0.212374	-0.101582	-0.00026	0.00039	0.00000
	0.314257	-0.053538	-0.093151	0.00006	0.00038	-0.00008
	0.309379	-0.023189	-0.094665	0.00002	0.00037	-0.00012
	0.335435	0.145574	-0.098236	-0.00019	0.00040	0.00009
	0.330557	0.175924	-0.099750	-0.00022	0.00040	0.00005
	0.320458	-0.089988	-0.091319	0.00009	0.00038	-0.00003
	0.315580	-0.059638	-0.092833	0.00006	0.00038	-0.00007
	-0.315542	0.137002	-0.187651	-0.00015	-0.00041	0.00010
	-0.320419	0.167352	-0.189165	-0.00018	-0.00042	0.00006
	-0.330519	-0.098560	-0.180734	0.00013	-0.00043	-0.00002
	-0.335396	-0.068210	-0.182248	0.00010	-0.00044	-0.00006
	-0.309341	0.100553	-0.185819	-0.00011	-0.00040	0.00015
	-0.314218	0.130902	-0.187333	-0.00014	-0.00041	0.00011
	-0.324318	-0.135010	-0.178901	0.00017	-0.00043	0.00003
	-0.329195	-0.104660	-0.180416	0.00014	-0.00043	-0.00001
625	0.329020	0.171941	-0.181012	-0.00024	0.00038	0.00003
	0.324141	0.194128	-0.181136	-0.00027	0.00037	-0.00001
	0.314042	-0.055433	-0.176712	0.00006	0.00041	-0.00009
	0.309163	-0.033246	-0.176835	0.00002	0.00040	-0.00013
	0.335221	0.145458	-0.180783	-0.00019	0.00039	0.00008
	0.330343	0.167644	-0.180907	-0.00023	0.00038	0.00004
	0.320243	-0.081916	-0.176483	0.00010	0.00042	-0.00004
	0.315364	-0.059729	-0.176606	0.00007	0.00041	-0.00008
	-0.315549	0.141456	-0.098944	-0.00016	-0.00037	0.00010
	-0.320427	0.163643	-0.099067	-0.00020	-0.00038	0.00006
	-0.330527	-0.085918	-0.094643	0.00014	-0.00034	-0.00002
	-0.335405	-0.063731	-0.094767	0.00010	-0.00034	-0.00006
	-0.309347	0.114972	-0.098715	-0.00012	-0.00036	0.00015
	-0.314226	0.137159	-0.098838	-0.00016	-0.00037	0.00011
	-0.324326	-0.112401	-0.094415	0.00018	-0.00033	0.00003
	-0.329204	-0.090214	-0.094538	0.00014	-0.00033	-0.00001
626	0.327823	0.192465	-0.051055	-0.00036	0.00028	0.00005
	0.324228	0.229240	-0.054807	-0.00036	0.00028	0.00001
	0.316683	-0.051052	-0.032632	-0.00028	0.00026	-0.00008
	0.313088	-0.014278	-0.036383	-0.00028	0.00026	-0.00012
	0.332458	0.148175	-0.046686	-0.00035	0.00029	0.00010
	0.328863	0.184950	-0.050437	-0.00035	0.00028	0.00006
	0.321318	-0.095343	-0.028263	-0.00027	0.00027	-0.00003
	0.317722	-0.058568	-0.032014	-0.00028	0.00026	-0.00007
	-0.318726	0.134382	-0.263701	-0.00002	-0.00035	0.00008
	-0.322322	0.171156	-0.267452	-0.00002	-0.00035	0.00004
	-0.329867	-0.109136	-0.245278	0.00006	-0.00037	-0.00004
	-0.333462	-0.072361	-0.249029	0.00005	-0.00038	-0.00008
	-0.314092	0.090092	-0.259332	-0.00001	-0.00034	0.00013
	-0.317687	0.126866	-0.263083	-0.00002	-0.00035	0.00009
	-0.325232	-0.153426	-0.240908	0.00006	-0.00036	0.00001
	-0.328827	-0.116652	-0.244660	0.00006	-0.00037	-0.00003
627	0.327893	0.182004	-0.107575	-0.00021	0.00040	0.00003
	0.324296	0.212355	-0.110216	-0.00024	0.00040	-0.00001
	0.316749	-0.053562	-0.091423	0.00010	0.00039	-0.00009
	0.313153	-0.023212	-0.094064	0.00007	0.00038	-0.00012
	0.332528	0.145554	-0.104482	-0.00017	0.00041	0.00008
	0.328932	0.175904	-0.107122	-0.00020	0.00040	0.00004
	0.321385	-0.090013	-0.088329	0.00014	0.00039	-0.00004
	0.317788	-0.059662	-0.090970	0.00011	0.00039	-0.00008
	-0.318725	0.137007	-0.193359	-0.00023	-0.00042	0.00010
	-0.322322	0.167357	-0.195999	-0.00027	-0.00043	0.00006

	-0.329869	-0.098560	-0.177207	0.00008	-0.00044	-0.00002
	-0.333465	-0.068209	-0.179847	0.00004	-0.00044	-0.00006
	-0.314090	0.100557	-0.190265	-0.00019	-0.00042	0.00014
	-0.317686	0.130907	-0.192906	-0.00023	-0.00042	0.00011
	-0.325234	-0.135010	-0.174113	0.00012	-0.00043	0.00003
	-0.328830	-0.104659	-0.176753	0.00008	-0.00044	-0.00001
628	0.322119	0.182009	-0.121447	-0.00034	0.00036	0.00002
	0.320836	0.212358	-0.126155	-0.00037	0.00036	-0.00002
	0.326703	-0.053553	-0.088102	-0.00009	0.00034	-0.00010
	0.325420	-0.023203	-0.092810	-0.00013	0.00034	-0.00014
	0.323933	0.145560	-0.116028	-0.00031	0.00036	0.00007
	0.322650	0.175909	-0.120736	-0.00034	0.00036	0.00003
	0.328517	-0.090002	-0.082683	-0.00006	0.00034	-0.00005
	0.327234	-0.059652	-0.087391	-0.00009	0.00034	-0.00009
	-0.328826	0.137006	-0.203983	-0.00022	-0.00044	0.00010
	-0.330109	0.167355	-0.208691	-0.00025	-0.00045	0.00006
	-0.324243	-0.098555	-0.170639	0.00003	-0.00047	-0.00002
	-0.325526	-0.068206	-0.175347	0.00000	-0.00047	-0.00006
	-0.327012	0.100557	-0.198564	-0.00018	-0.00044	0.00015
	-0.328296	0.130906	-0.203272	-0.00022	-0.00044	0.00011
	-0.322429	-0.135005	-0.165220	0.00006	-0.00046	0.00003
	-0.323712	-0.104655	-0.169928	0.00003	-0.00046	-0.00001
629	0.322115	0.176566	-0.162646	-0.00025	0.00046	0.00003
	0.320833	0.202834	-0.166641	-0.00028	0.00045	-0.00001
	0.326695	-0.054632	-0.130317	0.00002	0.00043	-0.00009
	0.325413	-0.028363	-0.134312	-0.00001	0.00042	-0.00013
	0.323928	0.145098	-0.158035	-0.00021	0.00047	0.00008
	0.322645	0.171366	-0.162030	-0.00025	0.00046	0.00004
	0.328508	-0.086099	-0.125706	0.00006	0.00044	-0.00004
	0.327226	-0.059831	-0.129701	0.00003	0.00043	-0.00008
	-0.328824	0.139063	-0.157721	-0.00027	-0.00057	0.00010
	-0.330106	0.165332	-0.161716	-0.00030	-0.00058	0.00006
	-0.324244	-0.092134	-0.125392	0.00000	-0.00060	-0.00002
	-0.325526	-0.065866	-0.129387	-0.00003	-0.00061	-0.00006
	-0.327011	0.107596	-0.153110	-0.00024	-0.00056	0.00015
	-0.328293	0.133864	-0.157105	-0.00027	-0.00057	0.00011
	-0.322431	-0.123602	-0.120782	0.00004	-0.00059	0.00003
	-0.323713	-0.097333	-0.124777	0.00000	-0.00060	-0.00001
630	0.322121	0.171434	-0.203369	-0.00021	0.00034	0.00003
	0.320840	0.193618	-0.206620	-0.00024	0.00033	-0.00001
	0.326699	-0.055987	-0.172440	0.00004	0.00038	-0.00009
	0.325417	-0.033803	-0.175691	0.00002	0.00037	-0.00013
	0.323933	0.144948	-0.199613	-0.00019	0.00035	0.00007
	0.322652	0.167132	-0.202864	-0.00021	0.00034	0.00003
	0.328510	-0.082473	-0.168683	0.00007	0.00039	-0.00005
	0.327229	-0.060289	-0.171934	0.00005	0.00038	-0.00008
	-0.328827	0.141399	-0.116415	-0.00029	-0.00021	0.00010
	-0.330109	0.163584	-0.119666	-0.00032	-0.00022	0.00006
	-0.324250	-0.086022	-0.085485	-0.00003	-0.00017	-0.00002
	-0.325532	-0.063838	-0.088736	-0.00006	-0.00018	-0.00006
	-0.327016	0.114913	-0.112658	-0.00026	-0.00020	0.00015
	-0.328297	0.137097	-0.115909	-0.00029	-0.00021	0.00011
	-0.322438	-0.112508	-0.081729	0.00000	-0.00016	0.00003
	-0.323720	-0.090324	-0.084980	-0.00003	-0.00017	-0.00001
631	0.321981	0.164119	-0.252785	-0.00006	0.00026	0.00003
	0.320698	0.179915	-0.254253	-0.00008	0.00024	-0.00001
	0.326554	-0.058724	-0.232618	0.00009	0.00035	-0.00009
	0.325271	-0.042929	-0.234087	0.00008	0.00033	-0.00013
	0.323787	0.145446	-0.251071	-0.00005	0.00027	0.00007
	0.322505	0.161241	-0.252539	-0.00006	0.00026	0.00003
	0.328360	-0.077398	-0.230904	0.00011	0.00036	-0.00005
	0.327078	-0.061602	-0.232373	0.00010	0.00035	-0.00008
	-0.328862	0.145678	-0.117742	-0.00004	0.00015	0.00010
	-0.330145	0.161474	-0.119210	-0.00005	0.00013	0.00006
	-0.324289	-0.077165	-0.097576	0.00012	0.00024	-0.00002
	-0.325572	-0.061370	-0.099044	0.00010	0.00023	-0.00006
	-0.327056	0.127005	-0.116028	-0.00002	0.00017	0.00015
	-0.328339	0.142800	-0.117496	-0.00003	0.00015	0.00011
	-0.322483	-0.095839	-0.095862	0.00014	0.00026	0.00003
	-0.323766	-0.080043	-0.097330	0.00012	0.00024	-0.00001
632	0.323959	0.249151	-0.219699	-0.00027	0.00054	0.00002
	0.324604	0.319799	-0.219736	-0.00034	0.00054	-0.00001
	0.327266	-0.054725	-0.220683	0.00003	0.00055	-0.00009
	0.327910	0.015924	-0.220719	-0.00004	0.00055	-0.00013
	0.323417	0.163504	-0.219643	-0.00020	0.00054	0.00007
	0.324061	0.234153	-0.219679	-0.00027	0.00054	0.00003
	0.326724	-0.140371	-0.220627	0.00010	0.00055	-0.00005
	0.327368	-0.069722	-0.220663	0.00003	0.00055	-0.00009
	-0.330089	0.129270	-0.265716	-0.00014	-0.00007	0.00010
	-0.329445	0.199918	-0.265753	-0.00021	-0.00007	0.00006
	-0.326782	-0.174605	-0.266700	0.00016	-0.00007	-0.00002
	-0.326138	-0.103957	-0.266736	0.00009	-0.00007	-0.00006
	-0.330632	0.043624	-0.265660	-0.00007	-0.00007	0.00014

	-0.329987	0.114272	-0.265696	-0.00014	-0.00007	0.00010
	-0.327325	-0.260252	-0.266643	0.00023	-0.00007	0.00003
	-0.326680	-0.189603	-0.266680	0.00016	-0.00007	-0.00001
633	0.323922	0.216643	-0.234706	-0.00019	0.00009	0.00003
	0.324567	0.269197	-0.235833	-0.00024	0.00009	-0.00001
	0.327229	-0.051794	-0.229462	0.00008	0.00008	-0.00009
	0.327874	0.000760	-0.230589	0.00003	0.00008	-0.00013
	0.323380	0.153090	-0.233380	-0.00013	0.00008	0.00008
	0.324025	0.205644	-0.234507	-0.00019	0.00009	0.00004
	0.326687	-0.115347	-0.228136	0.00013	0.00008	-0.00004
	0.327332	-0.062793	-0.229263	0.00008	0.00008	-0.00008
	-0.330084	0.130375	-0.271562	-0.00008	-0.00028	0.00010
	-0.329440	0.182929	-0.272689	-0.00013	-0.00028	0.00006
	-0.326778	-0.138062	-0.266317	0.00018	-0.00029	-0.00002
	-0.326133	-0.085508	-0.267445	0.00013	-0.00029	-0.00006
	-0.330626	0.066823	-0.270236	-0.00003	-0.00029	0.00015
	-0.329982	0.119377	-0.271363	-0.00008	-0.00028	0.00011
	-0.327319	-0.201615	-0.264991	0.00024	-0.00029	0.00003
	-0.326675	-0.149061	-0.266119	0.00019	-0.00029	-0.00001
634	0.324191	0.191359	-0.124350	-0.00054	-0.00003	0.00002
	0.324836	0.228153	-0.129098	-0.00057	-0.00002	-0.00002
	0.327515	-0.052267	-0.094214	-0.00032	-0.00014	-0.00010
	0.328159	-0.015473	-0.098962	-0.00035	-0.00013	-0.00014
	0.323650	0.147032	-0.118742	-0.00050	-0.00005	0.00007
	0.324295	0.183825	-0.123491	-0.00053	-0.00003	0.00003
	0.326973	-0.096594	-0.088606	-0.00029	-0.00016	-0.00005
	0.327618	-0.059801	-0.093354	-0.00032	-0.00014	-0.00009
	-0.330085	0.134319	-0.260420	-0.00009	-0.00011	0.00010
	-0.329440	0.171113	-0.265169	-0.00012	-0.00010	0.00007
	-0.326761	-0.109307	-0.230284	0.00013	-0.00022	-0.00001
	-0.326117	-0.072513	-0.235032	0.00010	-0.00021	-0.00005
	-0.330626	0.089991	-0.254813	-0.00005	-0.00013	0.00015
	-0.329981	0.126785	-0.259561	-0.00008	-0.00011	0.00011
	-0.327303	-0.153635	-0.224676	0.00016	-0.00024	0.00003
	-0.326658	-0.116841	-0.229425	0.00013	-0.00022	0.00000
635	0.324192	0.164059	-0.257738	-0.00018	0.00022	0.00003
	0.324837	0.179848	-0.259973	-0.00020	0.00021	-0.00001
	0.327522	-0.058775	-0.228544	0.00003	0.00033	-0.00009
	0.328167	-0.042986	-0.230778	0.00002	0.00032	-0.00013
	0.323654	0.145373	-0.255105	-0.00016	0.00024	0.00007
	0.324298	0.161162	-0.257340	-0.00018	0.00022	0.00003
	0.326984	-0.077461	-0.225911	0.00005	0.00035	-0.00005
	0.327628	-0.061672	-0.228146	0.00004	0.00034	-0.00008
	-0.330097	0.145662	-0.122507	-0.00019	0.00010	0.00010
	-0.329453	0.161450	-0.124742	-0.00021	0.00008	0.00006
	-0.326767	-0.077172	-0.093312	0.00002	0.00021	-0.00002
	-0.326122	-0.061384	-0.095547	0.00000	0.00020	-0.00006
	-0.330636	0.126976	-0.119874	-0.00017	0.00012	0.00014
	-0.329991	0.142765	-0.122109	-0.00019	0.00010	0.00011
	-0.327305	-0.095858	-0.090680	0.00004	0.00023	0.00003
	-0.326661	-0.080069	-0.092915	0.00002	0.00021	-0.00001
636	0.324226	0.150578	-0.265833	-0.00014	0.00039	0.00003
	0.324871	0.153528	-0.265916	-0.00014	0.00039	-0.00001
	0.327555	-0.068021	-0.259939	0.00007	0.00041	-0.00009
	0.328200	-0.065071	-0.260022	0.00006	0.00041	-0.00013
	0.323686	0.147555	-0.265720	-0.00013	0.00039	0.00007
	0.324331	0.150504	-0.265803	-0.00013	0.00039	0.00004
	0.327014	-0.071044	-0.259825	0.00008	0.00041	-0.00004
	0.327659	-0.068095	-0.259908	0.00007	0.00041	-0.00008
	-0.330132	0.157843	-0.219294	-0.00013	0.00008	0.00010
	-0.329487	0.160792	-0.219377	-0.00013	0.00008	0.00006
	-0.326804	-0.060756	-0.213399	0.00008	0.00009	-0.00002
	-0.326159	-0.057807	-0.213482	0.00007	0.00009	-0.00006
	-0.330672	0.154819	-0.219181	-0.00012	0.00008	0.00015
	-0.330027	0.157769	-0.219264	-0.00012	0.00008	0.00011
	-0.327344	-0.063780	-0.213286	0.00009	0.00010	0.00003
	-0.326699	-0.060830	-0.213369	0.00008	0.00010	-0.00001
637	0.324256	0.139403	-0.272744	-0.00015	0.00017	0.00003
	0.324902	0.124258	-0.272368	-0.00014	0.00017	-0.00001
	0.327583	-0.085014	-0.270912	0.00006	0.00018	-0.00009
	0.328229	-0.100159	-0.270536	0.00007	0.00018	-0.00013
	0.323716	0.158452	-0.273212	-0.00016	0.00017	0.00007
	0.324362	0.143306	-0.272836	-0.00015	0.00017	0.00004
	0.327043	-0.065965	-0.271381	0.00005	0.00018	-0.00004
	0.327689	-0.081111	-0.271005	0.00006	0.00018	-0.00008
	-0.330161	0.178995	-0.270136	-0.00019	-0.00025	0.00010
	-0.329515	0.163850	-0.269760	-0.00017	-0.00025	0.00006
	-0.326834	-0.045422	-0.268304	0.00002	-0.00025	-0.00002
	-0.326188	-0.060567	-0.267928	0.00004	-0.00025	-0.00006
	-0.330701	0.198044	-0.270604	-0.00020	-0.00025	0.00015
	-0.330056	0.182899	-0.270228	-0.00019	-0.00025	0.00011
	-0.327374	-0.026373	-0.268773	0.00001	-0.00025	0.00003
	-0.326729	-0.041518	-0.268397	0.00003	-0.00025	-0.00001

638	0.324285	0.134265	-0.267704	-0.00014	0.00018	0.00003
	0.324930	0.102193	-0.267291	-0.00011	0.00018	-0.00001
	0.327607	-0.107167	-0.265431	0.00009	0.00018	-0.00009
	0.328252	-0.139240	-0.265018	0.00012	0.00018	-0.00013
	0.323742	0.173964	-0.268187	-0.00017	0.00018	0.00007
	0.324387	0.141891	-0.267774	-0.00014	0.00018	0.00004
	0.327063	-0.067469	-0.265914	0.00006	0.00018	-0.00004
	0.327708	-0.099541	-0.265501	0.00009	0.00018	-0.00008
	-0.330179	0.205049	-0.268195	-0.00021	-0.00023	0.00010
	-0.329534	0.172977	-0.267781	-0.00018	-0.00023	0.00006
	-0.326857	-0.036383	-0.265922	0.00002	-0.00023	-0.00002
	-0.326212	-0.068456	-0.265509	0.00005	-0.00023	-0.00006
	-0.330722	0.244748	-0.268677	-0.00024	-0.00023	0.00015
	-0.330077	0.212675	-0.268264	-0.00021	-0.00023	0.00011
	-0.327401	0.003315	-0.266405	-0.00001	-0.00023	0.00003
	-0.326756	-0.028758	-0.265991	0.00002	-0.00023	-0.00001
639	0.324293	0.133564	-0.267858	-0.00023	0.00011	0.00003
	0.324937	0.085737	-0.267431	-0.00019	0.00011	-0.00001
	0.327612	-0.131858	-0.265677	0.00002	0.00011	-0.00009
	0.328257	-0.179685	-0.265250	0.00007	0.00011	-0.00013
	0.323750	0.192478	-0.268340	-0.00028	0.00011	0.00007
	0.324394	0.144651	-0.267912	-0.00023	0.00011	0.00004
	0.327069	-0.072944	-0.266159	-0.00002	0.00011	-0.00004
	0.327714	-0.120771	-0.265731	0.00002	0.00011	-0.00008
	-0.330185	0.233405	-0.266812	-0.00032	-0.00030	0.00010
	-0.329540	0.185578	-0.266384	-0.00028	-0.00030	0.00006
	-0.326865	-0.032017	-0.264630	-0.00007	-0.00030	-0.00002
	-0.326221	-0.079844	-0.264203	-0.00003	-0.00030	-0.00006
	-0.330728	0.292319	-0.267293	-0.00037	-0.00030	0.00015
	-0.330083	0.244492	-0.266866	-0.00032	-0.00030	0.00011
	-0.327408	0.026897	-0.265112	-0.00012	-0.00030	0.00003
	-0.326764	-0.020930	-0.264684	-0.00007	-0.00030	-0.00001
640	0.324287	0.136066	-0.264679	-0.00032	0.00018	0.00003
	0.324931	0.071321	-0.264265	-0.00026	0.00017	-0.00001
	0.327605	-0.161666	-0.263181	-0.00003	0.00018	-0.00009
	0.328249	-0.226411	-0.262767	0.00003	0.00018	-0.00013
	0.323745	0.215625	-0.265116	-0.00038	0.00018	0.00007
	0.324389	0.150881	-0.264702	-0.00032	0.00018	0.00004
	0.327064	-0.082106	-0.263618	-0.00009	0.00018	-0.00004
	0.327708	-0.146851	-0.263204	-0.00003	0.00018	-0.00008
	-0.330183	0.267143	-0.274512	-0.00045	-0.00017	0.00010
	-0.329539	0.202398	-0.274098	-0.00039	-0.00017	0.00006
	-0.326864	-0.030588	-0.273014	-0.00016	-0.00017	-0.00002
	-0.326221	-0.095333	-0.272599	-0.00010	-0.00017	-0.00006
	-0.330724	0.346703	-0.274949	-0.00051	-0.00017	0.00015
	-0.330080	0.281958	-0.274535	-0.00045	-0.00017	0.00011
	-0.327406	0.048971	-0.273450	-0.00022	-0.00016	0.00003
	-0.326762	-0.015774	-0.273036	-0.00016	-0.00017	-0.00001
641	0.324272	0.140988	-0.235832	-0.00017	0.00031	0.00002
	0.324917	0.059328	-0.236781	-0.00009	0.00033	-0.00002
	0.327593	-0.193921	-0.241656	0.00017	0.00036	-0.00010
	0.328237	-0.275581	-0.242604	0.00026	0.00037	-0.00014
	0.323730	0.241200	-0.234646	-0.00026	0.00030	0.00007
	0.324374	0.159540	-0.235594	-0.00018	0.00031	0.00003
	0.327051	-0.093708	-0.240469	0.00009	0.00035	-0.00005
	0.327695	-0.175369	-0.241418	0.00017	0.00036	-0.00009
	-0.330171	0.303322	-0.273509	-0.00035	-0.00048	0.00010
	-0.329527	0.221661	-0.274458	-0.00026	-0.00047	0.00006
	-0.326851	-0.031587	-0.279333	0.00000	-0.00044	-0.00002
	-0.326206	-0.113247	-0.280281	0.00008	-0.00042	-0.00006
	-0.330714	0.403534	-0.272323	-0.00043	-0.00050	0.00015
	-0.330069	0.321874	-0.273271	-0.00035	-0.00048	0.00011
	-0.327393	0.068625	-0.278147	-0.00009	-0.00045	0.00002
	-0.326749	-0.013035	-0.279095	0.00000	-0.00044	-0.00002
642	0.324276	0.143271	-0.294231	-0.00009	0.00011	0.00001
	0.324921	0.055587	-0.298614	0.00002	0.00011	-0.00003
	0.327597	-0.205763	-0.309758	0.00034	0.00013	-0.00011
	0.328242	-0.293446	-0.314141	0.00045	0.00014	-0.00015
	0.323734	0.250839	-0.289584	-0.00020	0.00009	0.00005
	0.324378	0.163155	-0.293967	-0.00010	0.00010	0.00002
	0.327055	-0.098195	-0.305111	0.00023	0.00012	-0.00006
	0.327699	-0.185879	-0.309495	0.00033	0.00013	-0.00010
	-0.330174	0.316596	-0.208489	-0.00043	-0.00025	0.00011
	-0.329530	0.228912	-0.212872	-0.00032	-0.00024	0.00007
	-0.326853	-0.032438	-0.224016	0.00000	-0.00022	-0.00001
	-0.326209	-0.120122	-0.228399	0.00011	-0.00021	-0.00005
	-0.330717	0.424163	-0.203842	-0.00054	-0.00026	0.00015
	-0.330072	0.336480	-0.208226	-0.00043	-0.00025	0.00011
	-0.327396	0.075129	-0.219369	-0.00011	-0.00023	0.00003
	-0.326751	-0.012554	-0.223753	0.00000	-0.00023	0.00000
643	0.324096	0.145600	-0.260997	-0.00009	0.00006	0.00003
	0.324736	0.050975	-0.263909	-0.00001	0.00005	-0.00001



	0.327393	-0.220052	-0.271000	0.00026	0.00003	-0.00009
	0.328033	-0.314677	-0.273912	0.00035	0.00002	-0.00013
	0.323544	0.261701	-0.257399	-0.00019	0.00006	0.00008
	0.324184	0.167076	-0.260311	-0.00010	0.00006	0.00004
	0.326841	-0.103950	-0.267402	0.00017	0.00004	-0.00004
	0.327481	-0.198576	-0.270314	0.00026	0.00003	-0.00008
	-0.330147	0.331943	-0.185824	-0.00026	-0.00025	0.00010
	-0.329507	0.237317	-0.188736	-0.00017	-0.00026	0.00006
	-0.326850	-0.033709	-0.195827	0.00009	-0.00028	-0.00002
	-0.326210	-0.128335	-0.198739	0.00018	-0.00029	-0.00006
	-0.330700	0.448044	-0.182226	-0.00035	-0.00025	0.00015
	-0.330060	0.353418	-0.185138	-0.00027	-0.00025	0.00011
	-0.327402	0.082392	-0.192229	0.00000	-0.00027	0.00003
	-0.326762	-0.012234	-0.195141	0.00009	-0.00028	-0.00001
644	0.306721	0.249158	-0.230065	-0.00009	0.00047	0.00003
	0.330507	0.319803	-0.232214	-0.00016	0.00049	-0.00001
	0.379478	-0.054704	-0.214869	0.00019	0.00055	-0.00009
	0.403264	0.015942	-0.217018	0.00013	0.00057	-0.00012
	0.277911	0.163512	-0.228018	-0.00002	0.00044	0.00008
	0.301697	0.234158	-0.230167	-0.00009	0.00047	0.00004
	0.350669	-0.140349	-0.212822	0.00026	0.00052	-0.00004
	0.374455	-0.069704	-0.214971	0.00020	0.00054	-0.00008
	-0.387440	0.129262	-0.268601	0.00003	-0.00029	0.00010
	-0.363654	0.199907	-0.270750	-0.00004	-0.00027	0.00006
	-0.314683	-0.174600	-0.253405	0.00031	-0.00021	-0.00002
	-0.290897	-0.103954	-0.255555	0.00025	-0.00019	-0.00006
	-0.416250	0.043616	-0.266554	0.00009	-0.00031	0.00014
	-0.392464	0.114261	-0.268703	0.00003	-0.00029	0.00011
	-0.343492	-0.260245	-0.251358	0.00038	-0.00024	0.00003
	-0.319706	-0.189600	-0.253507	0.00032	-0.00021	-0.00001
645	0.306748	0.216639	-0.246366	-0.00017	0.00027	0.00003
	0.330535	0.269189	-0.247529	-0.00022	0.00029	-0.00001
	0.379508	-0.051778	-0.237173	0.00008	0.00033	-0.00009
	0.403296	0.000772	-0.238336	0.00003	0.00035	-0.00013
	0.277936	0.153086	-0.245326	-0.00012	0.00025	0.00007
	0.301723	0.205636	-0.246490	-0.00017	0.00027	0.00003
	0.350696	-0.115331	-0.236133	0.00013	0.00031	-0.00004
	0.374484	-0.062781	-0.237297	0.00009	0.00033	-0.00008
	-0.387448	0.130364	-0.271095	-0.00008	-0.00038	0.00010
	-0.363661	0.182914	-0.272259	-0.00013	-0.00036	0.00006
	-0.314688	-0.138053	-0.261902	0.00017	-0.00032	-0.00002
	-0.290901	-0.085503	-0.263066	0.00012	-0.00030	-0.00006
	-0.416260	0.066811	-0.270056	-0.00003	-0.00040	0.00015
	-0.392473	0.119362	-0.271219	-0.00008	-0.00038	0.00011
	-0.343500	-0.201606	-0.260863	0.00022	-0.00034	0.00003
	-0.319713	-0.149056	-0.262026	0.00018	-0.00032	-0.00001
646	0.306790	0.191305	-0.248963	-0.00015	0.00035	0.00003
	0.330580	0.228096	-0.249633	-0.00018	0.00037	-0.00001
	0.379556	-0.052306	-0.243836	0.00007	0.00042	-0.00009
	0.403346	-0.015515	-0.244506	0.00003	0.00044	-0.00013
	0.277975	0.146986	-0.248365	-0.00011	0.00033	0.00007
	0.301765	0.183776	-0.249036	-0.00015	0.00035	0.00004
	0.350741	-0.096625	-0.243238	0.00010	0.00040	-0.00004
	0.374531	-0.059835	-0.243909	0.00007	0.00042	-0.00008
	-0.387467	0.134327	-0.260027	-0.00008	-0.00033	0.00010
	-0.363677	0.171117	-0.260697	-0.00012	-0.00031	0.00006
	-0.314700	-0.109284	-0.254900	0.00013	-0.00027	-0.00002
	-0.290911	-0.072494	-0.255570	0.00010	-0.00024	-0.00006
	-0.416282	0.090007	-0.259429	-0.00005	-0.00036	0.00014
	-0.392492	0.126798	-0.260099	-0.00008	-0.00034	0.00011
	-0.343515	-0.153604	-0.254302	0.00017	-0.00029	0.00003
	-0.319725	-0.116813	-0.254972	0.00013	-0.00027	-0.00001
647	0.306816	0.169141	-0.202336	-0.00014	-0.00123	0.00003
	0.330609	0.189403	-0.201383	-0.00015	-0.00125	-0.00001
	0.379591	-0.056769	-0.205831	0.00004	-0.00118	-0.00009
	0.403384	-0.036507	-0.204878	0.00003	-0.00119	-0.00013
	0.278000	0.145002	-0.203012	-0.00012	-0.00122	0.00007
	0.301793	0.165264	-0.202059	-0.00013	-0.00123	0.00004
	0.350775	-0.080908	-0.206507	0.00006	-0.00116	-0.00004
	0.374568	-0.060646	-0.205554	0.00005	-0.00118	-0.00008
	-0.387490	0.142617	-0.225882	-0.00016	-0.00086	0.00010
	-0.363697	0.162879	-0.224930	-0.00018	-0.00088	0.00006
	-0.314715	-0.083293	-0.229377	0.00002	-0.00081	-0.00002
	-0.290921	-0.063031	-0.228424	0.00000	-0.00082	-0.00006
	-0.416306	0.118478	-0.226558	-0.00015	-0.00085	0.00015
	-0.392513	0.138740	-0.225605	-0.00016	-0.00086	0.00011
	-0.343531	-0.107432	-0.230053	0.00003	-0.00079	0.00003
	-0.319737	-0.087170	-0.229100	0.00002	-0.00081	-0.00001
648	0.306816	0.168705	-0.206925	-0.00014	0.00080	0.00003
	0.330610	0.188595	-0.206266	-0.00015	0.00080	-0.00001
	0.379592	-0.056907	-0.209567	0.00004	0.00104	-0.00009
	0.403385	-0.037018	-0.208908	0.00003	0.00104	-0.00013
	0.278000	0.145016	-0.207279	-0.00012	0.00080	0.00008

	0.301794	0.164906	-0.206620	-0.00013	0.00080	0.00004
	0.350776	-0.080596	-0.209921	0.00006	0.00104	-0.00004
	0.374569	-0.060707	-0.209262	0.00005	0.00104	-0.00008
	-0.387490	0.142856	-0.221975	-0.00016	0.00040	0.00010
	-0.363697	0.162745	-0.221315	-0.00018	0.00040	0.00006
	-0.314715	-0.082757	-0.224617	0.00002	0.00064	-0.00002
	-0.290921	-0.062868	-0.223957	0.00000	0.00064	-0.00006
	-0.416307	0.119167	-0.222328	-0.00015	0.00041	0.00015
	-0.392513	0.139056	-0.221669	-0.00016	0.00040	0.00011
	-0.343531	-0.106446	-0.224970	0.00003	0.00065	0.00003
	-0.319738	-0.086557	-0.224311	0.00002	0.00064	-0.00001
649	0.306823	0.164063	-0.253215	-0.00009	0.00047	0.00004
	0.330617	0.179854	-0.255823	-0.00011	0.00048	0.00000
	0.379600	-0.058773	-0.261361	0.00008	0.00051	-0.00008
	0.403395	-0.042982	-0.263969	0.00007	0.00053	-0.00012
	0.278006	0.145376	-0.249964	-0.00008	0.00046	0.00009
	0.301800	0.161167	-0.252572	-0.00009	0.00047	0.00005
	0.350784	-0.077460	-0.258110	0.00009	0.00050	-0.00003
	0.374578	-0.061669	-0.260718	0.00008	0.00052	-0.00007
	-0.387493	0.145651	-0.174294	-0.00012	-0.00003	0.00012
	-0.363699	0.161442	-0.176901	-0.00013	-0.00001	0.00008
	-0.314716	-0.077185	-0.182440	0.00005	0.00002	-0.00001
	-0.290922	-0.061394	-0.185048	0.00004	0.00003	-0.00005
	-0.416310	0.126964	-0.171043	-0.00011	-0.00004	0.00016
	-0.392516	0.142755	-0.173651	-0.00012	-0.00003	0.00012
	-0.343532	-0.095872	-0.179189	0.00007	0.00001	0.00004
	-0.319738	-0.080081	-0.181797	0.00006	0.00002	0.00000
650	0.306830	0.150555	-0.259963	-0.00007	0.00039	0.00003
	0.330626	0.153505	-0.260700	-0.00007	0.00041	-0.00001
	0.379613	-0.068030	-0.263160	0.00005	0.00045	-0.00009
	0.403409	-0.065080	-0.263897	0.00005	0.00047	-0.00013
	0.278014	0.147539	-0.259061	-0.00007	0.00037	0.00007
	0.301810	0.150489	-0.259798	-0.00007	0.00039	0.00003
	0.350797	-0.071046	-0.262259	0.00005	0.00043	-0.00005
	0.374593	-0.068096	-0.262996	0.00005	0.00045	-0.00008
	-0.387498	0.157854	-0.234546	-0.00015	-0.00024	0.00010
	-0.363702	0.160804	-0.235283	-0.00015	-0.00022	0.00006
	-0.314716	-0.060731	-0.237744	-0.00002	-0.00017	-0.00002
	-0.290919	-0.057781	-0.238481	-0.00002	-0.00015	-0.00006
	-0.416315	0.154838	-0.233644	-0.00015	-0.00026	0.00014
	-0.392518	0.157788	-0.234381	-0.00015	-0.00024	0.00010
	-0.343532	-0.063747	-0.236842	-0.00002	-0.00019	0.00003
	-0.319736	-0.060797	-0.237579	-0.00002	-0.00017	-0.00001
651	0.306834	0.139888	-0.211431	-0.00002	-0.00132	0.00003
	0.330631	0.125911	-0.210669	-0.00001	-0.00133	-0.00001
	0.379617	-0.083714	-0.216116	0.00013	-0.00137	-0.00009
	0.403414	-0.097691	-0.215353	0.00014	-0.00138	-0.00013
	0.278021	0.157536	-0.212333	-0.00002	-0.00130	0.00008
	0.301817	0.143559	-0.211570	-0.00002	-0.00132	0.00004
	0.350804	-0.066066	-0.217018	0.00012	-0.00135	-0.00004
	0.374600	-0.080043	-0.216255	0.00013	-0.00136	-0.00008
	-0.387493	0.177417	-0.248639	-0.00005	-0.00080	0.00010
	-0.363696	0.163440	-0.247877	-0.00005	-0.00082	0.00006
	-0.314710	-0.046185	-0.253324	0.00009	-0.00085	-0.00002
	-0.290913	-0.060163	-0.252561	0.00010	-0.00086	-0.00006
	-0.416307	0.195065	-0.249541	-0.00006	-0.00079	0.00015
	-0.392510	0.181087	-0.248778	-0.00005	-0.00080	0.00011
	-0.343524	-0.028537	-0.254226	0.00009	-0.00083	0.00003
	-0.319727	-0.042515	-0.253463	0.00009	-0.00085	-0.00001
652	0.306834	0.139326	-0.224480	0.00000	0.00054	0.00003
	0.330631	0.124182	-0.224576	0.00001	0.00057	-0.00001
	0.379617	-0.085051	-0.228584	0.00014	0.00065	-0.00009
	0.403414	-0.100195	-0.228679	0.00014	0.00068	-0.00013
	0.278021	0.158396	-0.224492	-0.00001	0.00051	0.00008
	0.301818	0.143253	-0.224587	0.00000	0.00054	0.00004
	0.350804	-0.065981	-0.228595	0.00013	0.00062	-0.00004
	0.374601	-0.081124	-0.228690	0.00014	0.00065	-0.00008
	-0.387492	0.178999	-0.236899	-0.00004	-0.00058	0.00010
	-0.363695	0.163855	-0.236994	-0.00003	-0.00055	0.00006
	-0.314709	-0.045378	-0.241002	0.00010	-0.00047	-0.00002
	-0.290912	-0.060521	-0.241097	0.00010	-0.00044	-0.00006
	-0.416305	0.198069	-0.236910	-0.00005	-0.00061	0.00015
	-0.392508	0.182926	-0.237005	-0.00004	-0.00058	0.00011
	-0.343522	-0.026307	-0.241013	0.00009	-0.00050	0.00003
	-0.319725	-0.041451	-0.241108	0.00010	-0.00047	-0.00001
653	0.306834	0.139079	-0.231411	0.00001	-0.00010	0.00003
	0.330631	0.123259	-0.232009	0.00001	-0.00007	-0.00001
	0.379617	-0.085799	-0.236064	0.00014	0.00010	-0.00009
	0.403414	-0.101619	-0.236661	0.00014	0.00013	-0.00013
	0.278021	0.158955	-0.230899	0.00000	-0.00013	0.00008
	0.301818	0.143135	-0.231497	0.00001	-0.00010	0.00004
	0.350804	-0.065923	-0.235551	0.00013	0.00006	-0.00004
	0.374601	-0.081743	-0.236149	0.00014	0.00009	-0.00008

	-0.387491	0.179931	-0.229398	-0.00004	-0.00054	0.00010
	-0.363694	0.164111	-0.229996	-0.00003	-0.00050	0.00006
	-0.314708	-0.044947	-0.234051	0.00009	-0.00034	-0.00002
	-0.290912	-0.060767	-0.234649	0.00010	-0.00031	-0.00006
	-0.416304	0.199807	-0.228886	-0.00005	-0.00057	0.00015
	-0.392507	0.183987	-0.229484	-0.00004	-0.00054	0.00011
	-0.343521	-0.025071	-0.233539	0.00008	-0.00038	0.00002
	-0.319725	-0.040891	-0.234137	0.00009	-0.00035	-0.00001
654	0.306834	0.139059	-0.232507	0.00000	0.00072	0.00003
	0.330631	0.123135	-0.233178	0.00001	0.00070	-0.00001
	0.379617	-0.085916	-0.237275	0.00014	0.00067	-0.00009
	0.403413	-0.101840	-0.237946	0.00014	0.00065	-0.00013
	0.278021	0.159056	-0.231920	0.00000	0.00073	0.00008
	0.301818	0.143132	-0.232591	0.00001	0.00072	0.00004
	0.350804	-0.065919	-0.236687	0.00013	0.00068	-0.00004
	0.374601	-0.081843	-0.237359	0.00014	0.00067	-0.00008
	-0.387491	0.180081	-0.228407	-0.00004	0.00108	0.00010
	-0.363694	0.164157	-0.229078	-0.00003	0.00106	0.00006
	-0.314708	-0.044894	-0.233175	0.00009	0.00103	-0.00002
	-0.290912	-0.060818	-0.233846	0.00010	0.00101	-0.00006
	-0.416304	0.200078	-0.227820	-0.00005	0.00109	0.00014
	-0.392507	0.184154	-0.228491	-0.00004	0.00108	0.00011
	-0.343521	-0.024897	-0.232587	0.00008	0.00104	0.00002
	-0.319725	-0.040821	-0.233259	0.00009	0.00102	-0.00002
655	0.306827	0.134268	-0.244588	-0.00004	0.00027	0.00003
	0.330619	0.102195	-0.244016	-0.00002	0.00029	-0.00001
	0.379598	-0.107166	-0.241744	0.00017	0.00034	-0.00009
	0.403390	-0.139238	-0.241172	0.00020	0.00036	-0.00013
	0.278017	0.173966	-0.245092	-0.00007	0.00025	0.00007
	0.301809	0.141893	-0.244520	-0.00004	0.00027	0.00004
	0.350788	-0.067468	-0.242248	0.00014	0.00032	-0.00004
	0.374580	-0.099540	-0.241676	0.00017	0.00034	-0.00008
	-0.387483	0.205048	-0.248557	-0.00011	-0.00043	0.00010
	-0.363691	0.172976	-0.247985	-0.00008	-0.00041	0.00006
	-0.314712	-0.036385	-0.245713	0.00011	-0.00036	-0.00002
	-0.290920	-0.068458	-0.245141	0.00014	-0.00034	-0.00006
	-0.416293	0.244746	-0.249061	-0.00013	-0.00046	0.00015
	-0.392501	0.212674	-0.248489	-0.00011	-0.00043	0.00011
	-0.343522	0.003313	-0.246217	0.00008	-0.00039	0.00003
	-0.319730	-0.028760	-0.245645	0.00011	-0.00036	-0.00001
656	0.306814	0.133547	-0.252452	0.00000	0.00009	0.00003
	0.330604	0.085720	-0.250883	0.00005	0.00010	-0.00001
	0.379577	-0.131873	-0.244472	0.00029	0.00012	-0.00009
	0.403366	-0.179700	-0.242902	0.00034	0.00013	-0.00013
	0.278009	0.192469	-0.254116	-0.00006	0.00008	0.00007
	0.301798	0.144642	-0.252547	0.00000	0.00009	0.00004
	0.350771	-0.072951	-0.246136	0.00024	0.00011	-0.00004
	0.374560	-0.120778	-0.244567	0.00029	0.00012	-0.00008
	-0.387475	0.233407	-0.251409	-0.00011	-0.00032	0.00010
	-0.363686	0.185580	-0.249840	-0.00006	-0.00031	0.00006
	-0.314713	-0.032013	-0.243429	0.00018	-0.00028	-0.00002
	-0.290924	-0.079840	-0.241860	0.00023	-0.00027	-0.00006
	-0.416280	0.292329	-0.253073	-0.00016	-0.00033	0.00014
	-0.392491	0.244502	-0.251504	-0.00011	-0.00032	0.00011
	-0.343518	0.026909	-0.245093	0.00013	-0.00029	0.00003
	-0.319729	-0.020918	-0.243524	0.00018	-0.00028	-0.00001
657	0.306804	0.136068	-0.253935	0.00010	0.00021	0.00003
	0.330590	0.071324	-0.250066	0.00017	0.00022	-0.00001
	0.379558	-0.161663	-0.237293	0.00043	0.00019	-0.00009
	0.403344	-0.226408	-0.233425	0.00051	0.00019	-0.00013
	0.278001	0.215630	-0.258378	0.00003	0.00021	0.00007
	0.301787	0.150885	-0.254509	0.00010	0.00021	0.00003
	0.350755	-0.082102	-0.241736	0.00036	0.00018	-0.00005
	0.374541	-0.146847	-0.237868	0.00043	0.00019	-0.00008
	-0.387466	0.267142	-0.261025	-0.00005	-0.00017	0.00010
	-0.363680	0.202398	-0.257156	0.00002	-0.00016	0.00006
	-0.314712	-0.030589	-0.244384	0.00028	-0.00020	-0.00002
	-0.290926	-0.095334	-0.240515	0.00036	-0.00019	-0.00006
	-0.416269	0.346703	-0.265468	-0.00012	-0.00018	0.00015
	-0.392483	0.281959	-0.261599	-0.00005	-0.00017	0.00011
	-0.343515	0.048972	-0.248827	0.00021	-0.00020	0.00003
	-0.319729	-0.015773	-0.244958	0.00028	-0.00020	-0.00001
658	0.306801	0.141039	-0.245891	0.00002	0.00028	0.00003
	0.330585	0.059381	-0.238188	0.00011	0.00032	0.00000
	0.379550	-0.193865	-0.214268	0.00040	0.00040	-0.00008
	0.403335	-0.275523	-0.206565	0.00049	0.00043	-0.00011
	0.277997	0.241247	-0.255006	-0.00008	0.00025	0.00008
	0.301782	0.159589	-0.247303	0.00001	0.00028	0.00004
	0.350747	-0.093656	-0.223383	0.00030	0.00037	-0.00003
	0.374531	-0.175314	-0.215680	0.00039	0.00040	-0.00007
	-0.387459	0.303290	-0.252040	-0.00027	-0.00055	0.00010
	-0.363674	0.221632	-0.244337	-0.00018	-0.00052	0.00006
	-0.314710	-0.031613	-0.220417	0.00011	-0.00044	-0.00001

	-0.290925	-0.113271	-0.212714	0.00021	-0.00040	-0.00005
	-0.416262	0.403498	-0.261155	-0.00037	-0.00059	0.00014
	-0.392478	0.321840	-0.253452	-0.00027	-0.00055	0.00010
	-0.343513	0.068595	-0.229532	0.00001	-0.00047	0.00003
	-0.319728	-0.013063	-0.221829	0.00011	-0.00044	-0.00001
659	0.306851	0.146364	-0.249382	-0.00005	0.00062	0.00002
	0.330653	0.051905	-0.239442	0.00007	0.00066	-0.00002
	0.379645	-0.218728	-0.208015	0.00043	0.00076	-0.00009
	0.403446	-0.313187	-0.198075	0.00055	0.00080	-0.00012
	0.278029	0.262289	-0.261244	-0.00018	0.00057	0.00006
	0.301830	0.167830	-0.251303	-0.00006	0.00062	0.00002
	0.350823	-0.102803	-0.219877	0.00030	0.00072	-0.00005
	0.374624	-0.197262	-0.209936	0.00042	0.00076	-0.00008
	-0.387502	0.331541	-0.214718	-0.00036	-0.00056	0.00010
	-0.363701	0.237082	-0.204778	-0.00024	-0.00052	0.00006
	-0.314709	-0.033551	-0.173351	0.00012	-0.00042	-0.00001
	-0.290907	-0.128010	-0.163411	0.00024	-0.00037	-0.00004
	-0.416324	0.447466	-0.226580	-0.00049	-0.00060	0.00014
	-0.392523	0.353007	-0.216639	-0.00037	-0.00056	0.00011
	-0.343531	0.082374	-0.185213	-0.00001	-0.00046	0.00003
	-0.319730	-0.012085	-0.175272	0.00011	-0.00042	0.00000
660	0.299380	0.138327	-0.199983	-0.00006	-0.00003	0.00003
	0.332712	0.120653	-0.200829	-0.00005	-0.00001	-0.00001
	0.401254	-0.087758	-0.196042	0.00008	0.00005	-0.00009
	0.434586	-0.105431	-0.196888	0.00009	0.00007	-0.00013
	0.258914	0.160506	-0.198746	-0.00007	-0.00006	0.00007
	0.292246	0.142832	-0.199592	-0.00006	-0.00004	0.00003
	0.360789	-0.065579	-0.194805	0.00007	0.00002	-0.00004
	0.394120	-0.083252	-0.195651	0.00008	0.00004	-0.00008
	-0.411350	0.182334	-0.184750	-0.00005	-0.00052	0.00010
	-0.378018	0.164660	-0.185596	-0.00004	-0.00049	0.00006
	-0.309476	-0.043751	-0.180809	0.00009	-0.00044	-0.00002
	-0.276144	-0.061424	-0.181655	0.00010	-0.00041	-0.00005
	-0.451816	0.204513	-0.183513	-0.00006	-0.00055	0.00014
	-0.418484	0.186839	-0.184359	-0.00005	-0.00052	0.00011
	-0.349941	-0.021572	-0.179572	0.00008	-0.00047	0.00003
	-0.316610	-0.039245	-0.180418	0.00009	-0.00044	-0.00001
661	0.296590	0.148801	-0.204375	0.00006	0.00013	0.00003
	0.333523	0.149155	-0.204640	0.00006	0.00015	-0.00001
	0.409453	-0.069676	-0.202144	0.00019	0.00018	-0.00009
	0.446387	-0.069322	-0.202408	0.00019	0.00019	-0.00012
	0.251726	0.148971	-0.204054	0.00006	0.00011	0.00007
	0.288659	0.149325	-0.204318	0.00006	0.00013	0.00004
	0.364589	-0.069506	-0.201823	0.00020	0.00016	-0.00004
	0.401523	-0.069152	-0.202087	0.00019	0.00018	-0.00008
	-0.420375	0.160105	-0.199407	0.00007	-0.00016	0.00010
	-0.383442	0.160459	-0.199671	0.00006	-0.00014	0.00006
	-0.307512	-0.058372	-0.197176	0.00020	-0.00011	-0.00002
	-0.270578	-0.058018	-0.197440	0.00020	-0.00010	-0.00006
	-0.465240	0.160275	-0.199086	0.00007	-0.00017	0.00014
	-0.428306	0.160628	-0.199350	0.00007	-0.00016	0.00011
	-0.352376	-0.058202	-0.196855	0.00020	-0.00013	0.00003
	-0.315443	-0.057848	-0.197119	0.00020	-0.00011	-0.00001
662	0.294063	0.164814	-0.177254	0.00007	0.00037	0.00003
	0.334255	0.181373	-0.176609	0.00006	0.00040	-0.00001
	0.416864	-0.058680	-0.169258	0.00022	0.00046	-0.00009
	0.457056	-0.042120	-0.168613	0.00021	0.00049	-0.00012
	0.245230	0.145137	-0.178331	0.00008	0.00035	0.00007
	0.285421	0.161697	-0.177686	0.00007	0.00037	0.00003
	0.368031	-0.078356	-0.170335	0.00023	0.00043	-0.00004
	0.408222	-0.061797	-0.169690	0.00022	0.00046	-0.00008
	-0.428585	0.145183	-0.195041	0.00006	-0.00011	0.00009
	-0.388393	0.161742	-0.194395	0.00005	-0.00008	0.00006
	-0.305783	-0.078311	-0.187045	0.00021	-0.00002	-0.00002
	-0.265592	-0.061751	-0.186399	0.00020	0.00000	-0.00006
	-0.477418	0.125506	-0.196118	0.00007	-0.00014	0.00014
	-0.437227	0.142066	-0.195472	0.00006	-0.00011	0.00010
	-0.354617	-0.097987	-0.188122	0.00022	-0.00005	0.00003
	-0.314426	-0.081428	-0.187476	0.00021	-0.00002	-0.00001
663	0.289038	0.137299	-0.199293	-0.00003	0.00013	0.00003
	0.335705	0.116961	-0.201203	-0.00002	0.00017	-0.00001
	0.431604	-0.091014	-0.186319	0.00010	0.00027	-0.00008
	0.478271	-0.111352	-0.188229	0.00011	0.00031	-0.00012
	0.232290	0.162731	-0.196275	-0.00004	0.00008	0.00007
	0.278957	0.142393	-0.198185	-0.00003	0.00012	0.00004
	0.374855	-0.065582	-0.183300	0.00008	0.00022	-0.00004
	0.421522	-0.085920	-0.185210	0.00010	0.00026	-0.00007
	-0.444813	0.186207	-0.151690	-0.00006	-0.00055	0.00009
	-0.398146	0.165869	-0.153600	-0.00005	-0.00050	0.00006
	-0.302248	-0.042106	-0.138715	0.00007	-0.00041	-0.00002
	-0.255581	-0.062444	-0.140625	0.00008	-0.00037	-0.00005
	-0.501562	0.211639	-0.148671	-0.00007	-0.00060	0.00014
	-0.454895	0.191301	-0.150581	-0.00006	-0.00055	0.00010

	-0.358996	-0.016674	-0.135697	0.00006	-0.00046	0.00003
	-0.312329	-0.037012	-0.137607	0.00007	-0.00041	-0.00001
664	0.286293	0.146916	-0.176470	0.00000	0.00021	0.00003
	0.336567	0.144605	-0.176796	0.00001	0.00025	-0.00001
	0.439863	-0.071833	-0.163214	0.00013	0.00032	-0.00009
	0.490137	-0.074144	-0.163540	0.00013	0.00035	-0.00012
	0.225141	0.150337	-0.176109	0.00000	0.00018	0.00007
	0.275415	0.148027	-0.176435	0.00000	0.00021	0.00004
	0.378711	-0.068411	-0.162852	0.00012	0.00028	-0.00004
	0.428985	-0.070722	-0.163178	0.00013	0.00031	-0.00008
	-0.453860	0.162881	-0.172961	-0.00003	-0.00029	0.00010
	-0.403586	0.160571	-0.173287	-0.00003	-0.00026	0.00006
	-0.300290	-0.055868	-0.159704	0.00009	-0.00019	-0.00002
	-0.250016	-0.058178	-0.160030	0.00010	-0.00016	-0.00006
	-0.515012	0.166303	-0.172599	-0.00003	-0.00033	0.00014
	-0.464738	0.163993	-0.172925	-0.00003	-0.00030	0.00010
	-0.361442	-0.052446	-0.159343	0.00009	-0.00023	0.00003
	-0.311168	-0.054756	-0.159668	0.00009	-0.00019	-0.00001
665	0.284888	0.161311	-0.141703	0.00007	0.00034	0.00002
	0.338256	0.175206	-0.140373	0.00007	0.00039	-0.00001
	0.447867	-0.060464	-0.123702	0.00019	0.00049	-0.00008
	0.501235	-0.046568	-0.122372	0.00019	0.00053	-0.00012
	0.219282	0.144947	-0.144031	0.00007	0.00029	0.00007
	0.272650	0.158843	-0.142701	0.00007	0.00034	0.00003
	0.382261	-0.076828	-0.126031	0.00019	0.00044	-0.00004
	0.435630	-0.062932	-0.124701	0.00019	0.00048	-0.00008
	-0.460033	0.146519	-0.181290	-0.00003	-0.00031	0.00009
	-0.406665	0.160415	-0.179960	-0.00003	-0.00026	0.00005
	-0.297054	-0.075256	-0.163290	0.00009	-0.00017	-0.00002
	-0.243686	-0.061360	-0.161960	0.00009	-0.00012	-0.00006
	-0.525639	0.130155	-0.183618	-0.00003	-0.00036	0.00013
	-0.472270	0.144051	-0.182288	-0.00003	-0.00031	0.00010
	-0.362660	-0.091619	-0.165618	0.00009	-0.00021	0.00002
	-0.309291	-0.077723	-0.164288	0.00009	-0.00017	-0.00001
666	0.405609	0.225782	-0.077764	-0.00025	0.00044	0.00003
	0.395255	0.262997	-0.076077	-0.00029	0.00043	-0.00002
	0.373721	-0.061843	-0.098308	0.00005	0.00040	-0.00011
	0.363366	-0.024628	-0.096620	0.00001	0.00039	-0.00016
	0.418229	0.181895	-0.079478	-0.00021	0.00045	0.00009
	0.407874	0.219111	-0.077791	-0.00025	0.00044	0.00004
	0.386340	-0.105730	-0.100021	0.00009	0.00041	-0.00006
	0.375986	-0.068515	-0.098334	0.00005	0.00040	-0.00010
	-0.376768	0.168851	-0.171202	-0.00019	-0.00040	0.00011
	-0.387123	0.206067	-0.169514	-0.00023	-0.00041	0.00007
	-0.408656	-0.118774	-0.191745	0.00011	-0.00043	-0.00003
	-0.419011	-0.081559	-0.190057	0.00007	-0.00044	-0.00008
	-0.364149	0.124964	-0.172916	-0.00014	-0.00039	0.00017
	-0.374503	0.162180	-0.171228	-0.00018	-0.00040	0.00012
	-0.396037	-0.162661	-0.193459	0.00016	-0.00042	0.00002
	-0.406391	-0.125445	-0.191771	0.00012	-0.00043	-0.00002
667	0.405647	0.218892	-0.119605	-0.00025	0.00000	0.00002
	0.395291	0.251216	-0.117254	-0.00029	0.00000	-0.00003
	0.373757	-0.063551	-0.141100	0.00005	0.00000	-0.00012
	0.363401	-0.031227	-0.138749	0.00001	0.00000	-0.00017
	0.418265	0.180766	-0.122092	-0.00021	0.00000	0.00008
	0.407908	0.213090	-0.119741	-0.00025	0.00000	0.00003
	0.386375	-0.101677	-0.143587	0.00009	0.00000	-0.00007
	0.376018	-0.069353	-0.141236	0.00005	0.00000	-0.00012
	-0.376753	0.171135	-0.127163	-0.00019	0.00000	0.00012
	-0.387110	0.203459	-0.124812	-0.00023	0.00000	0.00008
	-0.408643	-0.111308	-0.148657	0.00011	0.00000	-0.00002
	-0.419000	-0.078984	-0.146307	0.00007	0.00000	-0.00007
	-0.364136	0.133009	-0.129650	-0.00015	0.00000	0.00018
	-0.374492	0.165333	-0.127299	-0.00019	0.00000	0.00013
	-0.396026	-0.149434	-0.151144	0.00015	0.00000	0.00004
	-0.406382	-0.117111	-0.148794	0.00011	0.00000	-0.00001
668	0.405692	0.211357	-0.161433	-0.00023	0.00042	0.00003
	0.395332	0.238755	-0.158404	-0.00026	0.00041	-0.00002
	0.373795	-0.065917	-0.184087	0.00006	0.00039	-0.00011
	0.363435	-0.038519	-0.181059	0.00002	0.00038	-0.00016
	0.418309	0.179025	-0.164675	-0.00020	0.00043	0.00008
	0.407949	0.206422	-0.161647	-0.00023	0.00043	0.00004
	0.386413	-0.098249	-0.187329	0.00009	0.00040	-0.00006
	0.376053	-0.070852	-0.184301	0.00006	0.00039	-0.00011
	-0.376689	0.173132	-0.082789	-0.00018	-0.00043	0.00011
	-0.387049	0.200529	-0.079760	-0.00021	-0.00044	0.00006
	-0.408585	-0.104142	-0.105443	0.00010	-0.00047	-0.00003
	-0.418945	-0.076745	-0.102414	0.00007	-0.00048	-0.00008
	-0.364072	0.140799	-0.086031	-0.00015	-0.00042	0.00017
	-0.374432	0.168196	-0.083003	-0.00018	-0.00043	0.00012
	-0.395968	-0.136475	-0.108685	0.00014	-0.00046	0.00002
	-0.406328	-0.109078	-0.105657	0.00011	-0.00047	-0.00002

669	0.403122	0.225794	-0.100115	0.00000	0.00046	0.00003
	0.397073	0.263008	-0.101630	0.00000	0.00045	-0.00001
	0.384401	-0.061821	-0.093161	0.00000	0.00044	-0.00011
	0.378352	-0.024607	-0.094676	0.00000	0.00043	-0.00016
	0.410645	0.181907	-0.098296	0.00000	0.00047	0.00009
	0.404596	0.219122	-0.099811	0.00000	0.00046	0.00004
	0.391924	-0.105708	-0.091342	0.00000	0.00045	-0.00005
	0.385875	-0.068494	-0.092857	0.00000	0.00044	-0.00010
	-0.386730	0.168888	-0.188283	0.00000	-0.00041	0.00011
	-0.392779	0.206102	-0.189798	0.00000	-0.00041	0.00006
	-0.405451	-0.118728	-0.181329	0.00000	-0.00043	-0.00003
	-0.411500	-0.081514	-0.182844	0.00000	-0.00043	-0.00008
	-0.379207	0.125001	-0.186464	0.00000	-0.00040	0.00016
	-0.385255	0.162215	-0.187979	0.00000	-0.00041	0.00012
	-0.397928	-0.162614	-0.179510	0.00000	-0.00042	0.00002
	-0.403976	-0.125400	-0.181025	0.00000	-0.00043	-0.00003
670	0.402410	0.211418	-0.182969	0.00000	0.00042	0.00004
	0.396345	0.238814	-0.183090	0.00000	0.00042	-0.00001
	0.383628	-0.065846	-0.178700	0.00000	0.00040	-0.00011
	0.377564	-0.038451	-0.178821	0.00000	0.00040	-0.00016
	0.409947	0.179083	-0.182733	0.00000	0.00043	0.00009
	0.403883	0.206479	-0.182854	0.00000	0.00042	0.00004
	0.391166	-0.098182	-0.178463	0.00000	0.00041	-0.00005
	0.385101	-0.070786	-0.178584	0.00000	0.00041	-0.00010
	-0.386813	0.173203	-0.099807	0.00000	-0.00047	0.00011
	-0.392877	0.200599	-0.099928	0.00000	-0.00047	0.00006
	-0.405594	-0.104061	-0.095537	0.00000	-0.00048	-0.00004
	-0.411658	-0.076665	-0.095658	0.00000	-0.00049	-0.00009
	-0.379275	0.140868	-0.099570	0.00000	-0.00046	0.00016
	-0.385340	0.168264	-0.099691	0.00000	-0.00046	0.00011
	-0.398056	-0.136397	-0.095301	0.00000	-0.00048	0.00002
	-0.404121	-0.109001	-0.095422	0.00000	-0.00048	-0.00003
671	0.393479	0.225768	-0.121511	-0.00024	0.00043	0.00003
	0.391749	0.262980	-0.126227	-0.00028	0.00043	-0.00001
	0.399443	-0.061835	-0.088143	0.00006	0.00044	-0.00011
	0.397713	-0.024623	-0.092859	0.00002	0.00044	-0.00016
	0.395889	0.181881	-0.116154	-0.00020	0.00043	0.00009
	0.394159	0.219094	-0.120870	-0.00024	0.00043	0.00004
	0.401854	-0.105722	-0.082786	0.00010	0.00044	-0.00006
	0.400124	-0.068510	-0.087502	0.00006	0.00044	-0.00010
	-0.402871	0.168947	-0.204751	-0.00017	-0.00041	0.00012
	-0.404601	0.206159	-0.209467	-0.00021	-0.00041	0.00008
	-0.396906	-0.118656	-0.171383	0.00014	-0.00040	-0.00002
	-0.398636	-0.081444	-0.176099	0.00010	-0.00040	-0.00007
	-0.400460	0.125060	-0.199394	-0.00012	-0.00041	0.00018
	-0.402190	0.162273	-0.204110	-0.00016	-0.00041	0.00013
	-0.394496	-0.162543	-0.166026	0.00018	-0.00040	0.00004
	-0.396226	-0.125331	-0.170741	0.00014	-0.00040	-0.00001
672	0.393493	0.218672	-0.163634	-0.00023	0.00000	0.00002
	0.391762	0.250962	-0.167622	-0.00026	0.00000	-0.00002
	0.399475	-0.063251	-0.131568	0.00007	0.00000	-0.00012
	0.397744	-0.030961	-0.135555	0.00004	0.00000	-0.00017
	0.395910	0.180581	-0.159085	-0.00019	0.00000	0.00008
	0.394179	0.212871	-0.163073	-0.00023	0.00000	0.00003
	0.401891	-0.101342	-0.127019	0.00011	0.00000	-0.00007
	0.400160	-0.069052	-0.131006	0.00008	0.00000	-0.00011
	-0.402585	0.171450	-0.159885	-0.00016	0.00000	0.00012
	-0.404316	0.203740	-0.163873	-0.00020	0.00000	0.00007
	-0.396603	-0.110474	-0.127819	0.00014	0.00000	-0.00002
	-0.398334	-0.078184	-0.131806	0.00010	0.00000	-0.00007
	-0.400168	0.133358	-0.155336	-0.00012	0.00000	0.00017
	-0.401899	0.165648	-0.159324	-0.00016	0.00000	0.00013
	-0.394186	-0.148565	-0.123270	0.00018	0.00000	0.00003
	-0.395917	-0.116275	-0.127257	0.00014	0.00000	-0.00002
673	0.393562	0.211672	-0.204698	-0.00022	0.00041	0.00003
	0.391830	0.239066	-0.207970	-0.00025	0.00041	-0.00002
	0.399564	-0.065556	-0.173780	0.00007	0.00042	-0.00011
	0.397832	-0.038162	-0.177052	0.00004	0.00042	-0.00016
	0.395982	0.179341	-0.200976	-0.00019	0.00042	0.00008
	0.394251	0.206735	-0.204247	-0.00022	0.00041	0.00004
	0.401984	-0.097887	-0.170058	0.00010	0.00042	-0.00006
	0.400252	-0.070493	-0.173329	0.00007	0.00042	-0.00011
	-0.402325	0.173282	-0.116339	-0.00016	-0.00044	0.00011
	-0.404056	0.200676	-0.119611	-0.00019	-0.00044	0.00006
	-0.396323	-0.103946	-0.085421	0.00013	-0.00043	-0.00004
	-0.398054	-0.076552	-0.088693	0.00010	-0.00043	-0.00008
	-0.399904	0.140951	-0.112616	-0.00013	-0.00043	0.00016
	-0.401636	0.168345	-0.115888	-0.00016	-0.00044	0.00012
	-0.393902	-0.136277	-0.081698	0.00016	-0.00043	0.00002
	-0.395634	-0.108883	-0.084970	0.00013	-0.00043	-0.00003
674	0.484767	0.373385	-0.173246	-0.00040	0.00031	0.00003
	0.463516	0.473838	-0.169533	-0.00046	0.00030	-0.00002
	0.418943	-0.066526	-0.194328	-0.00012	0.00028	-0.00013

	0.397692	0.033927	-0.190615	-0.00018	0.00028	-0.00018
	0.509719	0.257389	-0.177160	-0.00034	0.00031	0.00009
	0.488468	0.357841	-0.173447	-0.00040	0.00031	0.00004
	0.443895	-0.182523	-0.198242	-0.00006	0.00029	-0.00007
	0.422644	-0.082070	-0.194529	-0.00012	0.00028	-0.00012
	-0.425272	0.204333	-0.241608	-0.00029	-0.00010	0.00013
	-0.446523	0.304786	-0.237895	-0.00035	-0.00011	0.00007
	-0.491096	-0.235578	-0.262690	-0.00002	-0.00013	-0.00004
	-0.512347	-0.135126	-0.258977	-0.00008	-0.00013	-0.00009
	-0.400320	0.088336	-0.245521	-0.00023	-0.00010	0.00019
	-0.421571	0.188789	-0.241808	-0.00029	-0.00010	0.00013
	-0.466144	-0.351575	-0.266603	0.00004	-0.00012	0.00002
	-0.487395	-0.251122	-0.262890	-0.00002	-0.00013	-0.00003
675	0.484765	0.323103	-0.161899	-0.00044	0.00003	0.00003
	0.463514	0.398229	-0.159898	-0.00048	0.00003	-0.00002
	0.418942	-0.065181	-0.176027	-0.00020	0.00002	-0.00013
	0.397691	0.009945	-0.174025	-0.00024	0.00002	-0.00019
	0.509716	0.236192	-0.163966	-0.00039	0.00003	0.00009
	0.488465	0.311318	-0.161965	-0.00044	0.00003	0.00004
	0.443892	-0.152092	-0.178094	-0.00015	0.00002	-0.00007
	0.422642	-0.076966	-0.176092	-0.00019	0.00002	-0.00013
	-0.425273	0.199601	-0.218317	-0.00036	-0.00019	0.00013
	-0.446524	0.274727	-0.216316	-0.00040	-0.00019	0.00007
	-0.491096	-0.188683	-0.232445	-0.00012	-0.00021	-0.00004
	-0.512347	-0.113557	-0.230443	-0.00016	-0.00021	-0.00009
	-0.400322	0.112690	-0.220384	-0.00031	-0.00019	0.00019
	-0.421573	0.187816	-0.218383	-0.00036	-0.00019	0.00014
	-0.466145	-0.275594	-0.234512	-0.00007	-0.00021	0.00002
	-0.487396	-0.200468	-0.232510	-0.00012	-0.00021	-0.00003
676	0.484767	0.283420	-0.123527	-0.00020	-0.00005	0.00003
	0.463516	0.336485	-0.122235	-0.00023	-0.00006	-0.00002
	0.418944	-0.068127	-0.136815	-0.00001	0.00005	-0.00013
	0.397693	-0.015063	-0.135523	-0.00004	0.00003	-0.00019
	0.509717	0.221838	-0.124894	-0.00017	-0.00003	0.00009
	0.488466	0.274903	-0.123601	-0.00020	-0.00005	0.00004
	0.443894	-0.129710	-0.138182	0.00002	0.00006	-0.00007
	0.422643	-0.076645	-0.136889	-0.00001	0.00005	-0.00013
	-0.425273	0.199582	-0.179413	-0.00032	-0.00020	0.00013
	-0.446523	0.252646	-0.178120	-0.00035	-0.00021	0.00007
	-0.491096	-0.151966	-0.192701	-0.00013	-0.00010	-0.00004
	-0.512347	-0.098901	-0.191408	-0.00016	-0.00012	-0.00009
	-0.400323	0.137999	-0.180780	-0.00029	-0.00018	0.00019
	-0.421573	0.191064	-0.179487	-0.00032	-0.00020	0.00014
	-0.466146	-0.213548	-0.194067	-0.00010	-0.00008	0.00002
	-0.487397	-0.160484	-0.192775	-0.00013	-0.00010	-0.00003
677	0.484766	0.238994	-0.181530	-0.00034	0.00024	0.00003
	0.463516	0.262653	-0.177452	-0.00035	0.00024	-0.00002
	0.418943	-0.080278	-0.205320	-0.00022	0.00019	-0.00013
	0.397693	-0.056618	-0.201242	-0.00023	0.00019	-0.00019
	0.509714	0.211177	-0.186617	-0.00033	0.00024	0.00009
	0.488464	0.234837	-0.182539	-0.00034	0.00024	0.00004
	0.443891	-0.108094	-0.210407	-0.00021	0.00019	-0.00007
	0.422641	-0.084435	-0.206328	-0.00022	0.00019	-0.00013
	-0.425267	0.207808	-0.083717	-0.00014	-0.00014	0.00013
	-0.446517	0.231468	-0.079638	-0.00015	-0.00014	0.00007
	-0.491090	-0.111464	-0.107506	-0.00002	-0.00018	-0.00004
	-0.512340	-0.087804	-0.103428	-0.00003	-0.00019	-0.00009
	-0.400319	0.179992	-0.088804	-0.00013	-0.00013	0.00019
	-0.421569	0.203651	-0.084725	-0.00014	-0.00014	0.00014
	-0.466142	-0.139280	-0.112593	-0.00001	-0.00018	0.00002
	-0.487392	-0.115620	-0.108515	-0.00002	-0.00018	-0.00003
678	0.484771	0.215588	-0.208590	-0.00031	0.00030	0.00003
	0.463518	0.221271	-0.207698	-0.00032	0.00030	-0.00002
	0.418937	-0.095696	-0.214372	-0.00019	0.00029	-0.00013
	0.397684	-0.090013	-0.213480	-0.00020	0.00028	-0.00019
	0.509721	0.208409	-0.209708	-0.00030	0.00031	0.00009
	0.488467	0.214092	-0.208815	-0.00031	0.00030	0.00004
	0.443887	-0.102875	-0.215489	-0.00019	0.00029	-0.00007
	0.422634	-0.097192	-0.214597	-0.00019	0.00028	-0.00013
	-0.425260	0.220826	-0.179575	-0.00026	0.00001	0.00013
	-0.446514	0.226510	-0.178683	-0.00027	0.00001	0.00007
	-0.491094	-0.090457	-0.185357	-0.00014	0.00000	-0.00004
	-0.512347	-0.084774	-0.184465	-0.00015	-0.00001	-0.00009
	-0.400310	0.213647	-0.180692	-0.00026	0.00002	0.00019
	-0.421564	0.219331	-0.179800	-0.00026	0.00001	0.00014
	-0.466144	-0.097636	-0.186474	-0.00014	0.00000	0.00002
	-0.487398	-0.091953	-0.185582	-0.00014	-0.00001	-0.00003
679	0.484770	0.195569	-0.227301	-0.00020	0.00017	0.00003
	0.463515	0.175917	-0.227188	-0.00019	0.00017	-0.00002
	0.418930	-0.121237	-0.234162	-0.00008	0.00020	-0.00013
	0.397675	-0.140889	-0.234049	-0.00008	0.00019	-0.00019
	0.509723	0.217471	-0.227639	-0.00020	0.00018	0.00009
	0.488467	0.197820	-0.227527	-0.00020	0.00017	0.00004

	0.443883	-0.099335	-0.234500	-0.00009	0.00021	-0.00007
	0.422627	-0.118986	-0.234388	-0.00008	0.00020	-0.00013
	-0.425260	0.242989	-0.206163	-0.00023	-0.00023	0.00013
	-0.446516	0.223337	-0.206051	-0.00022	-0.00024	0.00007
	-0.491100	-0.073818	-0.213024	-0.00011	-0.00021	-0.00004
	-0.512356	-0.093469	-0.212912	-0.00011	-0.00022	-0.00009
	-0.400308	0.264891	-0.206502	-0.00023	-0.00023	0.00019
	-0.421563	0.245239	-0.206389	-0.00023	-0.00023	0.00014
	-0.466148	-0.051915	-0.213362	-0.00012	-0.00020	0.00002
	-0.487403	-0.071567	-0.213250	-0.00011	-0.00021	-0.00003
680	0.484768	0.183732	-0.228879	-0.00017	0.00017	0.00003
	0.463511	0.140378	-0.229743	-0.00015	0.00016	-0.00002
	0.418925	-0.155093	-0.238053	-0.00004	0.00019	-0.00013
	0.397669	-0.198447	-0.238917	-0.00003	0.00019	-0.00019
	0.509722	0.232842	-0.228089	-0.00018	0.00018	0.00009
	0.488466	0.189488	-0.228954	-0.00017	0.00017	0.00004
	0.443880	-0.105983	-0.237264	-0.00006	0.00020	-0.00007
	0.422623	-0.149337	-0.238128	-0.00004	0.00019	-0.00013
	-0.425262	0.273680	-0.216472	-0.00021	-0.00021	0.00013
	-0.446518	0.230326	-0.217336	-0.00019	-0.00022	0.00007
	-0.491104	-0.065145	-0.225647	-0.00008	-0.00019	-0.00004
	-0.512360	-0.108499	-0.226511	-0.00007	-0.00020	-0.00009
	-0.400307	0.322790	-0.215683	-0.00022	-0.00021	0.00019
	-0.421563	0.279437	-0.216547	-0.00021	-0.00021	0.00014
	-0.466150	-0.016035	-0.224857	-0.00010	-0.00018	0.00002
	-0.487406	-0.059388	-0.225722	-0.00008	-0.00019	-0.00003
681	0.484764	0.178724	-0.228599	-0.00013	0.00019	0.00003
	0.463508	0.113303	-0.230640	-0.00011	0.00018	-0.00002
	0.418921	-0.192717	-0.240788	0.00001	0.00021	-0.00013
	0.397665	-0.258138	-0.242829	0.00003	0.00021	-0.00019
	0.509721	0.253169	-0.226401	-0.00015	0.00020	0.00009
	0.488464	0.187749	-0.228442	-0.00013	0.00019	0.00004
	0.443878	-0.118272	-0.238590	-0.00001	0.00022	-0.00007
	0.422621	-0.183693	-0.240631	0.00001	0.00021	-0.00013
	-0.425263	0.308352	-0.219828	-0.00018	-0.00020	0.00013
	-0.446520	0.242931	-0.221869	-0.00015	-0.00021	0.00007
	-0.491106	-0.063090	-0.232017	-0.00004	-0.00018	-0.00004
	-0.512363	-0.128510	-0.234058	-0.00001	-0.00018	-0.00009
	-0.400307	0.382797	-0.217630	-0.00020	-0.00019	0.00019
	-0.421563	0.317376	-0.219671	-0.00017	-0.00020	0.00014
	-0.466150	0.011356	-0.229819	-0.00006	-0.00017	0.00002
	-0.487406	-0.054065	-0.231860	-0.00003	-0.00018	-0.00003
682	0.484763	0.178233	-0.228814	-0.00009	0.00020	0.00003
	0.463506	0.089111	-0.232796	-0.00006	0.00019	-0.00002
	0.418919	-0.238055	-0.246898	0.00007	0.00022	-0.00013
	0.397662	-0.327177	-0.250880	0.00010	0.00021	-0.00019
	0.509720	0.279894	-0.224278	-0.00012	0.00020	0.00009
	0.488464	0.190772	-0.228260	-0.00009	0.00020	0.00004
	0.443876	-0.136394	-0.242362	0.00004	0.00022	-0.00007
	0.422619	-0.225516	-0.246344	0.00007	0.00022	-0.00013
	-0.425266	0.350504	-0.217902	-0.00017	-0.00021	0.00013
	-0.446523	0.261382	-0.221885	-0.00014	-0.00022	0.00007
	-0.491111	-0.065784	-0.235986	-0.00001	-0.00019	-0.00004
	-0.512368	-0.154906	-0.239969	0.00002	-0.00020	-0.00009
	-0.400309	0.452165	-0.213366	-0.00020	-0.00021	0.00019
	-0.421566	0.363042	-0.217349	-0.00017	-0.00021	0.00014
	-0.466153	0.035877	-0.231450	-0.00004	-0.00019	0.00002
	-0.487410	-0.053246	-0.235433	-0.00001	-0.00019	-0.00003
683	0.484761	0.181388	-0.228500	-0.00014	0.00011	0.00003
	0.463504	0.068564	-0.235613	-0.00010	0.00011	-0.00002
	0.418916	-0.287056	-0.257365	0.00005	0.00013	-0.00013
	0.397660	-0.399880	-0.264478	0.00009	0.00013	-0.00019
	0.509719	0.310266	-0.220165	-0.00018	0.00012	0.00009
	0.488462	0.197442	-0.227278	-0.00014	0.00011	0.00004
	0.443875	-0.158178	-0.249030	0.00001	0.00014	-0.00007
	0.422618	-0.271001	-0.256143	0.00005	0.00013	-0.00013
	-0.425270	0.396315	-0.200562	-0.00029	-0.00031	0.00013
	-0.446527	0.283491	-0.207675	-0.00025	-0.00032	0.00007
	-0.491115	-0.072129	-0.229427	-0.00010	-0.00029	-0.00004
	-0.512372	-0.184953	-0.236540	-0.00006	-0.00030	-0.00009
	-0.400312	0.525193	-0.192227	-0.00034	-0.00031	0.00019
	-0.421569	0.412369	-0.199340	-0.00029	-0.00031	0.00014
	-0.466157	0.056749	-0.221092	-0.00015	-0.00029	0.00002
	-0.487413	-0.056074	-0.228205	-0.00010	-0.00029	-0.00003
684	0.484760	0.185608	-0.231207	-0.00016	0.00014	0.00003
	0.463503	0.054534	-0.241171	-0.00009	0.00014	-0.00002
	0.418916	-0.326589	-0.270689	0.00012	0.00015	-0.00013
	0.397659	-0.457663	-0.280653	0.00020	0.00015	-0.00018
	0.509718	0.335449	-0.219377	-0.00023	0.00014	0.00009
	0.488462	0.204375	-0.229340	-0.00016	0.00014	0.00004
	0.443874	-0.176748	-0.258859	0.00006	0.00015	-0.00007
	0.422618	-0.307822	-0.268823	0.00013	0.00015	-0.00012
	-0.425271	0.433394	-0.159080	-0.00026	-0.00026	0.00013



	-0.446528	0.302319	-0.169044	-0.00019	-0.00026	0.00007
	-0.491115	-0.078803	-0.198563	0.00002	-0.00024	-0.00004
	-0.512372	-0.209877	-0.208526	0.00009	-0.00024	-0.00009
	-0.400313	0.583234	-0.147250	-0.00033	-0.00026	0.00019
	-0.421569	0.452160	-0.157214	-0.00026	-0.00026	0.00013
	-0.466156	0.071038	-0.186732	-0.00004	-0.00024	0.00002
	-0.487413	-0.060036	-0.196696	0.00003	-0.00024	-0.00003
685	0.478915	0.268643	-0.078961	-0.00006	0.00019	0.00003
	0.466679	0.312693	-0.077300	-0.00009	0.00017	-0.00002
	0.441000	-0.070735	-0.099249	0.00017	0.00026	-0.00014
	0.428764	-0.026685	-0.097588	0.00014	0.00025	-0.00019
	0.493512	0.217414	-0.080634	-0.00003	0.00020	0.00010
	0.481276	0.261464	-0.078973	-0.00006	0.00019	0.00004
	0.455597	-0.121965	-0.100922	0.00020	0.00028	-0.00007
	0.443361	-0.077915	-0.099261	0.00017	0.00027	-0.00013
	-0.446120	0.200980	-0.171427	-0.00019	-0.00041	0.00013
	-0.458356	0.245030	-0.169765	-0.00022	-0.00043	0.00007
	-0.484036	-0.138399	-0.191715	0.00004	-0.00033	-0.00004
	-0.496271	-0.094349	-0.190053	0.00001	-0.00035	-0.00010
	-0.431523	0.149750	-0.173100	-0.00016	-0.00040	0.00019
	-0.443759	0.193800	-0.171438	-0.00019	-0.00041	0.00014
	-0.469439	-0.189629	-0.193388	0.00007	-0.00032	0.00002
	-0.481674	-0.145579	-0.191726	0.00004	-0.00033	-0.00003
686	0.478914	0.259779	-0.120111	-0.00023	0.00045	0.00001
	0.466679	0.298115	-0.117760	-0.00026	0.00045	-0.00004
	0.441002	-0.072878	-0.141539	0.00005	0.00044	-0.00015
	0.428767	-0.034542	-0.139189	0.00002	0.00043	-0.00021
	0.493510	0.215109	-0.122573	-0.00019	0.00046	0.00008
	0.481275	0.253446	-0.120223	-0.00023	0.00045	0.00002
	0.455597	-0.117548	-0.144002	0.00009	0.00044	-0.00009
	0.443363	-0.079211	-0.141651	0.00006	0.00044	-0.00015
	-0.446122	0.202364	-0.127574	-0.00018	-0.00044	0.00015
	-0.458357	0.240701	-0.125224	-0.00021	-0.00045	0.00009
	-0.484034	-0.130292	-0.149003	0.00010	-0.00046	-0.00002
	-0.496269	-0.091956	-0.146652	0.00007	-0.00046	-0.00008
	-0.431526	0.157695	-0.130037	-0.00014	-0.00044	0.00021
	-0.443761	0.196031	-0.127687	-0.00017	-0.00044	0.00015
	-0.469438	-0.174962	-0.151465	0.00014	-0.00045	0.00004
	-0.481673	-0.136625	-0.149115	0.00011	-0.00046	-0.00002
687	0.478914	0.251331	-0.162017	-0.00021	0.00042	0.00003
	0.466679	0.283954	-0.159004	-0.00023	0.00041	-0.00002
	0.441002	-0.075426	-0.184427	0.00002	0.00037	-0.00014
	0.428767	-0.042804	-0.181415	-0.00001	0.00037	-0.00019
	0.493509	0.213223	-0.165219	-0.00018	0.00042	0.00010
	0.481275	0.245846	-0.162206	-0.00021	0.00042	0.00004
	0.455597	-0.113534	-0.187630	0.00005	0.00038	-0.00008
	0.443363	-0.080912	-0.184617	0.00002	0.00037	-0.00013
	-0.446123	0.204155	-0.083903	-0.00006	-0.00027	0.00013
	-0.458357	0.236777	-0.080890	-0.00009	-0.00028	0.00007
	-0.484034	-0.122603	-0.106314	0.00017	-0.00032	-0.00004
	-0.496269	-0.089980	-0.103301	0.00014	-0.00032	-0.00010
	-0.431527	0.166047	-0.087106	-0.00003	-0.00027	0.00019
	-0.443762	0.198669	-0.084093	-0.00006	-0.00027	0.00014
	-0.469439	-0.160711	-0.109516	0.00020	-0.00031	0.00002
	-0.481674	-0.128088	-0.106503	0.00017	-0.00032	-0.00003
688	0.475696	0.268641	-0.100566	-0.00027	0.00038	0.00003
	0.468494	0.312691	-0.102080	-0.00030	0.00038	-0.00002
	0.453292	-0.070736	-0.093600	0.00004	0.00036	-0.00014
	0.446090	-0.026687	-0.095113	0.00000	0.00035	-0.00019
	0.484511	0.217412	-0.098747	-0.00023	0.00039	0.00009
	0.477309	0.261461	-0.100260	-0.00027	0.00038	0.00004
	0.462107	-0.121966	-0.091781	0.00008	0.00037	-0.00008
	0.454905	-0.077916	-0.093294	0.00004	0.00036	-0.00013
	-0.457739	0.200979	-0.188633	-0.00018	-0.00040	0.00012
	-0.464940	0.245029	-0.190146	-0.00021	-0.00041	0.00007
	-0.480143	-0.138398	-0.181667	0.00013	-0.00042	-0.00005
	-0.487344	-0.094349	-0.183180	0.00009	-0.00043	-0.00010
	-0.448924	0.149750	-0.186814	-0.00014	-0.00039	0.00018
	-0.456125	0.193799	-0.188327	-0.00018	-0.00040	0.00013
	-0.471328	-0.189628	-0.179847	0.00017	-0.00041	0.00002
	-0.478529	-0.145578	-0.181361	0.00013	-0.00042	-0.00004
689	0.475691	0.251333	-0.183647	-0.00025	0.00041	0.00004
	0.468490	0.283956	-0.183769	-0.00028	0.00040	-0.00002
	0.453288	-0.075425	-0.179363	0.00006	0.00039	-0.00014
	0.446086	-0.042802	-0.179484	0.00002	0.00038	-0.00019
	0.484506	0.213225	-0.183406	-0.00020	0.00042	0.00010
	0.477305	0.245848	-0.183528	-0.00024	0.00041	0.00004
	0.462103	-0.113533	-0.179122	0.00010	0.00040	-0.00007
	0.454901	-0.080910	-0.179244	0.00006	0.00039	-0.00013
	-0.457743	0.204154	-0.100388	-0.00020	-0.00038	0.00014
	-0.464944	0.236777	-0.100510	-0.00023	-0.00038	0.00009
	-0.480146	-0.122604	-0.096104	0.00011	-0.00040	-0.00003
	-0.487348	-0.089981	-0.096226	0.00007	-0.00040	-0.00009

	-0.448928	0.166045	-0.100147	-0.00016	-0.00037	0.00021
	-0.456129	0.198668	-0.100269	-0.00019	-0.00037	0.00015
	-0.471331	-0.160713	-0.095863	0.00015	-0.00039	0.00003
	-0.478533	-0.128090	-0.095985	0.00011	-0.00040	-0.00002
690	0.465344	0.268639	-0.122092	-0.00026	0.00023	0.00002
	0.463178	0.312688	-0.126786	-0.00030	0.00023	-0.00003
	0.472718	-0.070737	-0.088918	0.00001	0.00019	-0.00015
	0.470551	-0.026689	-0.093612	-0.00002	0.00019	-0.00020
	0.468377	0.217410	-0.116778	-0.00022	0.00023	0.00009
	0.466211	0.261459	-0.121472	-0.00026	0.00023	0.00003
	0.475751	-0.121966	-0.083604	0.00005	0.00019	-0.00009
	0.473584	-0.077917	-0.088298	0.00001	0.00019	-0.00014
	-0.476497	0.200979	-0.205279	-0.00018	-0.00041	0.00013
	-0.478664	0.245028	-0.209972	-0.00021	-0.00041	0.00007
	-0.469124	-0.138398	-0.172105	0.00009	-0.00045	-0.00004
	-0.471291	-0.094349	-0.176798	0.00006	-0.00045	-0.00010
	-0.473464	0.149750	-0.199965	-0.00014	-0.00041	0.00019
	-0.475631	0.193799	-0.204658	-0.00018	-0.00041	0.00014
	-0.466091	-0.189626	-0.166791	0.00013	-0.00045	0.00002
	-0.468258	-0.145578	-0.171484	0.00009	-0.00045	-0.00003
691	0.465341	0.259779	-0.164052	-0.00023	0.00043	0.00004
	0.463174	0.298115	-0.168040	-0.00027	0.00042	-0.00002
	0.472716	-0.072877	-0.132047	0.00005	0.00046	-0.00013
	0.470549	-0.034541	-0.136035	0.00002	0.00045	-0.00019
	0.468375	0.215109	-0.159527	-0.00019	0.00044	0.00010
	0.466207	0.253446	-0.163515	-0.00023	0.00043	0.00005
	0.475750	-0.117547	-0.127522	0.00009	0.00047	-0.00007
	0.473582	-0.079210	-0.131510	0.00005	0.00046	-0.00012
	-0.476498	0.202365	-0.160439	-0.00018	-0.00047	0.00012
	-0.478665	0.240701	-0.164427	-0.00021	-0.00048	0.00007
	-0.469123	-0.130291	-0.128435	0.00010	-0.00045	-0.00005
	-0.471290	-0.091955	-0.132423	0.00007	-0.00046	-0.00010
	-0.473464	0.157695	-0.155914	-0.00014	-0.00047	0.00019
	-0.475632	0.196032	-0.159902	-0.00018	-0.00047	0.00013
	-0.466089	-0.174961	-0.123910	0.00014	-0.00044	0.00002
	-0.468257	-0.136624	-0.127898	0.00011	-0.00045	-0.00004
692	0.465344	0.251335	-0.205319	-0.00023	0.00040	0.00003
	0.463178	0.283959	-0.208582	-0.00026	0.00039	-0.00002
	0.472716	-0.075424	-0.174577	0.00003	0.00044	-0.00014
	0.470550	-0.042800	-0.177841	0.00000	0.00043	-0.00019
	0.468377	0.213225	-0.201627	-0.00020	0.00041	0.00010
	0.466210	0.245849	-0.204891	-0.00023	0.00040	0.00004
	0.475749	-0.113533	-0.170886	0.00007	0.00045	-0.00008
	0.473582	-0.080910	-0.174149	0.00004	0.00044	-0.00013
	-0.476498	0.204154	-0.117247	-0.00021	-0.00022	0.00014
	-0.478665	0.236777	-0.120510	-0.00024	-0.00023	0.00008
	-0.469126	-0.122605	-0.086505	0.00005	-0.00018	-0.00003
	-0.471293	-0.089981	-0.089768	0.00003	-0.00019	-0.00009
	-0.473465	0.166044	-0.113555	-0.00018	-0.00021	0.00020
	-0.475632	0.198668	-0.116818	-0.00021	-0.00022	0.00015
	-0.466093	-0.160715	-0.082813	0.00009	-0.00017	0.00003
	-0.468260	-0.128091	-0.086077	0.00006	-0.00018	-0.00002
693	0.469522	0.373384	-0.226250	-0.00019	0.00056	0.00003
	0.470057	0.473837	-0.226351	-0.00024	0.00056	-0.00002
	0.473452	-0.066529	-0.227082	0.00002	0.00056	-0.00013
	0.473986	0.033924	-0.227183	-0.00002	0.00056	-0.00019
	0.469453	0.257386	-0.226129	-0.00015	0.00056	0.00009
	0.469988	0.357839	-0.226231	-0.00019	0.00056	0.00004
	0.473383	-0.182526	-0.226961	0.00007	0.00056	-0.00007
	0.473918	-0.082073	-0.227062	0.00002	0.00056	-0.00013
	-0.476851	0.204331	-0.272757	-0.00011	0.00010	0.00013
	-0.476317	0.304784	-0.272858	-0.00015	0.00010	0.00007
	-0.472921	-0.235581	-0.273589	0.00011	0.00011	-0.00004
	-0.472387	-0.135128	-0.273690	0.00006	0.00011	-0.00009
	-0.476920	0.088334	-0.272636	-0.00006	0.00010	0.00019
	-0.476385	0.188787	-0.272737	-0.00011	0.00010	0.00014
	-0.472990	-0.351578	-0.273468	0.00016	0.00011	0.00002
	-0.472455	-0.251125	-0.273569	0.00011	0.00011	-0.00003
694	0.469515	0.323100	-0.244199	-0.00012	-0.00011	0.00003
	0.470049	0.398226	-0.245383	-0.00015	-0.00010	-0.00002
	0.473445	-0.065184	-0.238653	0.00007	-0.00013	-0.00013
	0.473979	0.009942	-0.239836	0.00004	-0.00013	-0.00019
	0.469447	0.236189	-0.242814	-0.00008	-0.00011	0.00009
	0.469982	0.311315	-0.243998	-0.00012	-0.00011	0.00004
	0.473377	-0.152095	-0.237268	0.00011	-0.00014	-0.00007
	0.473912	-0.076969	-0.238452	0.00007	-0.00013	-0.00013
	-0.476853	0.199597	-0.281720	-0.00006	-0.00019	0.00013
	-0.476318	0.274723	-0.282904	-0.00009	-0.00019	0.00007
	-0.472923	-0.188687	-0.276174	0.00014	-0.00022	-0.00004
	-0.472388	-0.113561	-0.277357	0.00010	-0.00022	-0.00009
	-0.476920	0.112686	-0.280335	-0.00002	-0.00020	0.00019
	-0.476386	0.187812	-0.281519	-0.00005	-0.00019	0.00014
	-0.472990	-0.275598	-0.274789	0.00017	-0.00023	0.00002

	-0.472456	-0.200472	-0.275973	0.00014	-0.00022	-0.00003
695	0.469511	0.283427	-0.132983	-0.00009	0.00012	0.00003
	0.470043	0.336491	-0.137786	-0.00012	0.00012	-0.00002
	0.473438	-0.068121	-0.102398	0.00010	0.00007	-0.00013
	0.473970	-0.015056	-0.107202	0.00007	0.00007	-0.00019
	0.469445	0.221848	-0.127328	-0.00006	0.00011	0.00009
	0.469978	0.274912	-0.132132	-0.00009	0.00012	0.00004
	0.473372	-0.129700	-0.096744	0.00013	0.00006	-0.00007
	0.473905	-0.076636	-0.101548	0.00010	0.00007	-0.00013
	-0.476851	0.199572	-0.268922	-0.00014	-0.00019	0.00013
	-0.476319	0.252636	-0.273725	-0.00017	-0.00019	0.00008
	-0.472924	-0.151976	-0.238338	0.00006	-0.00024	-0.00004
	-0.472391	-0.098912	-0.243141	0.00003	-0.00024	-0.00009
	-0.476916	0.137992	-0.263268	-0.00011	-0.00020	0.00019
	-0.476384	0.191056	-0.268071	-0.00014	-0.00019	0.00014
	-0.472989	-0.213555	-0.232684	0.00009	-0.00025	0.00002
	-0.472457	-0.160491	-0.237487	0.00006	-0.00024	-0.00003
696	0.469508	0.238993	-0.264986	-0.00014	0.00011	0.00003
	0.470042	0.262653	-0.267260	-0.00016	0.00010	-0.00002
	0.473439	-0.080280	-0.235688	0.00005	0.00016	-0.00014
	0.473972	-0.056619	-0.237962	0.00003	0.00016	-0.00019
	0.469442	0.211174	-0.262317	-0.00012	0.00012	0.00009
	0.469975	0.234835	-0.264590	-0.00014	0.00011	0.00004
	0.473372	-0.108098	-0.233019	0.00007	0.00017	-0.00007
	0.473905	-0.084437	-0.235292	0.00005	0.00016	-0.00013
	-0.476855	0.207808	-0.129857	-0.00015	-0.00015	0.00013
	-0.476321	0.231469	-0.132131	-0.00017	-0.00016	0.00007
	-0.472924	-0.111465	-0.100559	0.00003	-0.00010	-0.00004
	-0.472391	-0.087804	-0.102833	0.00001	-0.00010	-0.00009
	-0.476921	0.179990	-0.127188	-0.00013	-0.00014	0.00019
	-0.476388	0.203651	-0.129461	-0.00015	-0.00015	0.00013
	-0.472991	-0.139283	-0.097890	0.00005	-0.00009	0.00002
	-0.472458	-0.115622	-0.100163	0.00003	-0.00009	-0.00003
697	0.469516	0.215585	-0.275337	-0.00012	0.00033	0.00003
	0.470050	0.221268	-0.275428	-0.00013	0.00032	-0.00002
	0.473447	-0.095698	-0.269229	0.00003	0.00036	-0.00013
	0.473981	-0.090015	-0.269320	0.00002	0.00036	-0.00019
	0.469447	0.208407	-0.275213	-0.00011	0.00033	0.00009
	0.469981	0.214090	-0.275304	-0.00012	0.00033	0.00004
	0.473378	-0.102876	-0.269105	0.00003	0.00036	-0.00007
	0.473912	-0.097193	-0.269196	0.00003	0.00036	-0.00013
	-0.476856	0.220825	-0.227739	-0.00011	0.00029	0.00013
	-0.476322	0.226508	-0.227830	-0.00012	0.00029	0.00007
	-0.472925	-0.090458	-0.221631	0.00003	0.00033	-0.00004
	-0.472391	-0.084776	-0.221722	0.00003	0.00033	-0.00009
	-0.476925	0.213647	-0.227614	-0.00011	0.00030	0.00019
	-0.476391	0.219330	-0.227705	-0.00011	0.00029	0.00014
	-0.472994	-0.097636	-0.221506	0.00004	0.00033	0.00002
	-0.472460	-0.091954	-0.221597	0.00004	0.00033	-0.00003
698	0.469519	0.195566	-0.282847	-0.00013	0.00006	0.00003
	0.470055	0.175915	-0.282465	-0.00013	0.00006	-0.00002
	0.473451	-0.121240	-0.280927	0.00001	0.00006	-0.00013
	0.473987	-0.140891	-0.280546	0.00002	0.00006	-0.00019
	0.469449	0.217469	-0.283318	-0.00014	0.00006	0.00009
	0.469985	0.197818	-0.282937	-0.00013	0.00006	0.00004
	0.473382	-0.099337	-0.281399	0.00001	0.00006	-0.00007
	0.473917	-0.118987	-0.281017	0.00001	0.00006	-0.00013
	-0.476862	0.242988	-0.280295	-0.00016	-0.00017	0.00013
	-0.476327	0.223337	-0.279914	-0.00015	-0.00018	0.00007
	-0.472930	-0.073817	-0.278376	-0.00002	-0.00018	-0.00004
	-0.472394	-0.093468	-0.277994	-0.00001	-0.00018	-0.00009
	-0.476932	0.264892	-0.280767	-0.00016	-0.00017	0.00019
	-0.476396	0.245241	-0.280385	-0.00016	-0.00017	0.00014
	-0.473000	-0.051914	-0.278847	-0.00002	-0.00018	0.00002
	-0.472464	-0.071565	-0.278465	-0.00001	-0.00018	-0.00003
699	0.469521	0.183728	-0.277239	-0.00013	0.00011	0.00003
	0.470057	0.140376	-0.276813	-0.00012	0.00011	-0.00002
	0.473454	-0.155096	-0.274852	0.00002	0.00011	-0.00013
	0.473989	-0.198449	-0.274426	0.00004	0.00011	-0.00019
	0.469450	0.232840	-0.277731	-0.00015	0.00011	0.00009
	0.469986	0.189487	-0.277304	-0.00013	0.00011	0.00004
	0.473383	-0.105985	-0.275344	0.00001	0.00011	-0.00007
	0.473919	-0.149337	-0.274918	0.00002	0.00011	-0.00013
	-0.476867	0.273680	-0.277758	-0.00017	-0.00013	0.00013
	-0.476331	0.230327	-0.277331	-0.00015	-0.00013	0.00007
	-0.472934	-0.065144	-0.275371	-0.00001	-0.00013	-0.00004
	-0.472398	-0.108497	-0.274944	0.00000	-0.00013	-0.00009
	-0.476937	0.322791	-0.278249	-0.00018	-0.00013	0.00019
	-0.476401	0.279438	-0.277823	-0.00016	-0.00013	0.00014
	-0.473004	-0.016033	-0.275862	-0.00003	-0.00013	0.00002
	-0.472469	-0.059386	-0.275436	-0.00001	-0.00013	-0.00003
700	0.469521	0.178723	-0.277417	-0.00026	0.00002	0.00003

	0.470057	0.113303	-0.276973	-0.00023	0.00002	-0.00002
	0.473454	-0.192718	-0.275141	-0.00009	0.00002	-0.00013
	0.473990	-0.258139	-0.274697	-0.00006	0.00002	-0.00019
	0.469451	0.253169	-0.277910	-0.00028	0.00002	0.00009
	0.469987	0.187748	-0.277467	-0.00025	0.00002	0.00004
	0.473384	-0.118273	-0.275634	-0.00011	0.00002	-0.00007
	0.473920	-0.183693	-0.275191	-0.00009	0.00002	-0.00013
	-0.476871	0.308351	-0.276328	-0.00030	-0.00021	0.00013
	-0.476335	0.242930	-0.275884	-0.00027	-0.00021	0.00007
	-0.472938	-0.063090	-0.274052	-0.00014	-0.00021	-0.00004
	-0.472402	-0.128511	-0.273608	-0.00011	-0.00021	-0.00009
	-0.476942	0.382796	-0.276821	-0.00032	-0.00021	0.00019
	-0.476406	0.317376	-0.276378	-0.00030	-0.00021	0.00014
	-0.473009	0.011355	-0.274545	-0.00016	-0.00021	0.00002
	-0.472472	-0.054065	-0.274102	-0.00013	-0.00021	-0.00003
701	0.469524	0.178235	-0.274639	-0.00039	0.00013	0.00003
	0.470060	0.089112	-0.274210	-0.00035	0.00013	-0.00002
	0.473457	-0.238054	-0.273068	-0.00020	0.00014	-0.00013
	0.473993	-0.327177	-0.272640	-0.00016	0.00014	-0.00019
	0.469453	0.279895	-0.275086	-0.00042	0.00013	0.00009
	0.469988	0.190772	-0.274657	-0.00038	0.00013	0.00004
	0.473386	-0.136394	-0.273515	-0.00023	0.00014	-0.00007
	0.473921	-0.225517	-0.273086	-0.00019	0.00014	-0.00013
	-0.476875	0.350503	-0.284559	-0.00045	-0.00008	0.00013
	-0.476339	0.261380	-0.284130	-0.00041	-0.00008	0.00007
	-0.472942	-0.065786	-0.282988	-0.00026	-0.00007	-0.00004
	-0.472406	-0.154908	-0.282559	-0.00023	-0.00007	-0.00009
	-0.476946	0.452163	-0.285006	-0.00049	-0.00008	0.00019
	-0.476411	0.363041	-0.284577	-0.00045	-0.00008	0.00014
	-0.473014	0.035875	-0.283435	-0.00030	-0.00007	0.00002
	-0.472478	-0.053248	-0.283006	-0.00026	-0.00007	-0.00003
702	0.469526	0.181387	-0.245257	-0.00031	-0.00004	0.00003
	0.470061	0.068563	-0.246177	-0.00026	-0.00003	-0.00002
	0.473459	-0.287058	-0.250916	-0.00010	-0.00003	-0.00014
	0.473994	-0.399881	-0.251835	-0.00005	-0.00003	-0.00019
	0.469454	0.310265	-0.244093	-0.00036	-0.00004	0.00009
	0.469989	0.197441	-0.245013	-0.00031	-0.00004	0.00004
	0.473387	-0.158179	-0.249751	-0.00014	-0.00003	-0.00007
	0.473922	-0.271003	-0.250671	-0.00009	-0.00003	-0.00013
	-0.476878	0.396314	-0.282422	-0.00042	-0.00029	0.00013
	-0.476343	0.283490	-0.283342	-0.00037	-0.00029	0.00007
	-0.472945	-0.072131	-0.288081	-0.00020	-0.00029	-0.00004
	-0.472410	-0.184954	-0.289000	-0.00015	-0.00029	-0.00009
	-0.476950	0.525192	-0.281258	-0.00046	-0.00030	0.00019
	-0.476415	0.412368	-0.282177	-0.00041	-0.00029	0.00014
	-0.473017	0.056747	-0.286916	-0.00025	-0.00029	0.00002
	-0.472482	-0.056076	-0.287836	-0.00020	-0.00029	-0.00003
703	0.469526	0.185605	-0.266888	-0.00020	0.00026	0.00003
	0.470061	0.054531	-0.269718	-0.00014	0.00027	-0.00002
	0.473459	-0.326592	-0.276587	0.00004	0.00028	-0.00013
	0.473994	-0.457666	-0.279417	0.00010	0.00028	-0.00019
	0.469453	0.335446	-0.263368	-0.00026	0.00025	0.00009
	0.469988	0.204372	-0.266198	-0.00020	0.00026	0.00004
	0.473386	-0.176751	-0.273067	-0.00002	0.00027	-0.00007
	0.473921	-0.307825	-0.275897	0.00004	0.00028	-0.00013
	-0.476878	0.433392	-0.191535	-0.00030	-0.00038	0.00013
	-0.476343	0.302318	-0.194365	-0.00024	-0.00037	0.00007
	-0.472945	-0.078806	-0.201233	-0.00006	-0.00036	-0.00004
	-0.472410	-0.209880	-0.204063	0.00000	-0.00035	-0.00009
	-0.476950	0.583233	-0.188015	-0.00036	-0.00038	0.00019
	-0.476415	0.452159	-0.190845	-0.00030	-0.00038	0.00014
	-0.473017	0.071036	-0.197713	-0.00011	-0.00037	0.00002
	-0.472482	-0.060039	-0.200543	-0.00005	-0.00036	-0.00003
704	0.449639	0.373380	-0.234301	-0.00003	0.00049	0.00003
	0.482582	0.473834	-0.236469	-0.00007	0.00051	-0.00002
	0.552136	-0.066533	-0.218951	0.00018	0.00055	-0.00013
	0.585079	0.033920	-0.221119	0.00013	0.00056	-0.00018
	0.412346	0.257384	-0.232232	0.00001	0.00048	0.00009
	0.445288	0.357837	-0.234399	-0.00003	0.00049	0.00004
	0.514843	-0.182530	-0.216881	0.00022	0.00053	-0.00007
	0.547785	-0.082077	-0.219049	0.00018	0.00055	-0.00012
	-0.551174	0.204329	-0.273752	0.00004	-0.00013	0.00012
	-0.518231	0.304782	-0.275920	0.00000	-0.00011	0.00007
	-0.448677	-0.235585	-0.258402	0.00025	-0.00007	-0.00004
	-0.415734	-0.135131	-0.260569	0.00020	-0.00005	-0.00009
	-0.588467	0.088332	-0.271682	0.00009	-0.00014	0.00018
	-0.555524	0.188785	-0.273850	0.00004	-0.00012	0.00013
	-0.485970	-0.351581	-0.256332	0.00029	-0.00008	0.00002
	-0.453027	-0.251128	-0.258500	0.00025	-0.00007	-0.00003
705	0.449633	0.323100	-0.253460	-0.00006	0.00014	0.00003
	0.482576	0.398226	-0.254661	-0.00009	0.00015	-0.00002
	0.552131	-0.065184	-0.244059	0.00011	0.00018	-0.00013
	0.585074	0.009942	-0.245260	0.00008	0.00019	-0.00019

	0.412341	0.236188	-0.252381	-0.00003	0.00013	0.00009
	0.445284	0.311314	-0.253582	-0.00006	0.00014	0.00004
	0.514839	-0.152096	-0.242980	0.00014	0.00017	-0.00007
	0.547782	-0.076970	-0.244181	0.00011	0.00018	-0.00013
	-0.551179	0.199595	-0.278279	0.00001	-0.00028	0.00013
	-0.518237	0.274721	-0.279480	-0.00002	-0.00027	0.00007
	-0.448682	-0.188689	-0.268878	0.00018	-0.00024	-0.00004
	-0.415739	-0.113563	-0.270079	0.00015	-0.00023	-0.00009
	-0.588471	0.112683	-0.277200	0.00004	-0.00029	0.00019
	-0.555529	0.187809	-0.278401	0.00001	-0.00028	0.00014
	-0.485974	-0.275601	-0.267799	0.00021	-0.00025	0.00002
	-0.453031	-0.200475	-0.269000	0.00018	-0.00024	-0.00003
706	0.449633	0.283435	-0.256811	-0.00015	0.00033	0.00003
	0.482576	0.336502	-0.257540	-0.00017	0.00034	-0.00002
	0.552132	-0.068118	-0.251401	-0.00003	0.00037	-0.00013
	0.585075	-0.015051	-0.252130	-0.00004	0.00039	-0.00019
	0.412340	0.221850	-0.256151	-0.00013	0.00031	0.00009
	0.445283	0.274917	-0.256880	-0.00015	0.00033	0.00004
	0.514840	-0.129703	-0.250741	-0.00001	0.00036	-0.00007
	0.547783	-0.076636	-0.251470	-0.00003	0.00037	-0.00012
	-0.551184	0.199576	-0.267391	0.00003	-0.00017	0.00013
	-0.518241	0.252642	-0.268121	0.00001	-0.00016	0.00007
	-0.448685	-0.151977	-0.261981	0.00015	-0.00013	-0.00004
	-0.415742	-0.098911	-0.262711	0.00013	-0.00012	-0.00009
	-0.588477	0.137990	-0.266731	0.00004	-0.00019	0.00019
	-0.555534	0.191057	-0.267461	0.00003	-0.00017	0.00013
	-0.485978	-0.213562	-0.261321	0.00017	-0.00014	0.00002
	-0.453034	-0.160496	-0.262051	0.00015	-0.00013	-0.00003
707	0.449629	0.238989	-0.259998	0.00001	0.00001	0.00003
	0.482574	0.262648	-0.262573	0.00000	0.00003	-0.00002
	0.552135	-0.080282	-0.267989	0.00011	0.00005	-0.00013
	0.585080	-0.056623	-0.270564	0.00010	0.00007	-0.00018
	0.412336	0.211173	-0.256781	0.00002	0.00000	0.00009
	0.445281	0.234832	-0.259356	0.00001	0.00001	0.00004
	0.514842	-0.108098	-0.264771	0.00012	0.00004	-0.00007
	0.547787	-0.084439	-0.267347	0.00011	0.00006	-0.00012
	-0.551195	0.207807	-0.182625	-0.00001	-0.00043	0.00013
	-0.518250	0.231466	-0.185201	-0.00002	-0.00042	0.00008
	-0.448689	-0.111464	-0.190616	0.00009	-0.00039	-0.00004
	-0.415744	-0.087804	-0.193191	0.00008	-0.00038	-0.00009
	-0.588488	0.179991	-0.179408	0.00000	-0.00044	0.00019
	-0.555543	0.203650	-0.181983	-0.00001	-0.00043	0.00014
	-0.485982	-0.139280	-0.187399	0.00011	-0.00040	0.00003
	-0.453037	-0.115621	-0.189974	0.00010	-0.00039	-0.00003
708	0.449630	0.215586	-0.266527	0.00003	0.00027	0.00003
	0.482577	0.221268	-0.267312	0.00003	0.00028	-0.00002
	0.552142	-0.095697	-0.269700	0.00017	0.00030	-0.00013
	0.585089	-0.090015	-0.270485	0.00016	0.00031	-0.00019
	0.412335	0.208405	-0.265572	0.00004	0.00026	0.00009
	0.445281	0.214087	-0.266357	0.00004	0.00027	0.00004
	0.514847	-0.102879	-0.268745	0.00018	0.00029	-0.00007
	0.547793	-0.097197	-0.269530	0.00017	0.00030	-0.00013
	-0.551203	0.220829	-0.239753	0.00003	-0.00006	0.00013
	-0.518257	0.226511	-0.240538	0.00002	-0.00005	0.00007
	-0.448691	-0.090454	-0.242926	0.00016	-0.00002	-0.00004
	-0.415745	-0.084773	-0.243711	0.00016	-0.00002	-0.00009
	-0.588499	0.213648	-0.238798	0.00004	-0.00006	0.00019
	-0.555552	0.219329	-0.239583	0.00003	-0.00005	0.00013
	-0.485987	-0.097636	-0.241971	0.00017	-0.00003	0.00002
	-0.453040	-0.091954	-0.242756	0.00017	-0.00002	-0.00003
709	0.449633	0.195567	-0.232097	0.00008	0.00010	0.00003
	0.482582	0.175915	-0.232178	0.00009	0.00011	-0.00002
	0.552151	-0.121239	-0.235983	0.00022	0.00013	-0.00013
	0.585100	-0.140892	-0.236064	0.00023	0.00014	-0.00019
	0.412334	0.217467	-0.232118	0.00008	0.00009	0.00009
	0.445282	0.197815	-0.232198	0.00008	0.00010	0.00004
	0.514852	-0.099340	-0.236004	0.00022	0.00012	-0.00007
	0.547800	-0.118992	-0.236084	0.00022	0.00013	-0.00012
	-0.551218	0.242990	-0.244540	0.00006	-0.00021	0.00013
	-0.518269	0.223337	-0.244621	0.00007	-0.00020	0.00007
	-0.448700	-0.073817	-0.248426	0.00020	-0.00018	-0.00004
	-0.415751	-0.093470	-0.248507	0.00021	-0.00017	-0.00009
	-0.588517	0.264890	-0.244561	0.00006	-0.00021	0.00019
	-0.555569	0.245237	-0.244641	0.00007	-0.00021	0.00014
	-0.485999	-0.051917	-0.248447	0.00020	-0.00018	0.00002
	-0.453051	-0.071570	-0.248527	0.00021	-0.00018	-0.00003
710	0.449636	0.183730	-0.251561	0.00009	0.00028	0.00003
	0.482585	0.140375	-0.250970	0.00011	0.00029	-0.00002
	0.552157	-0.155097	-0.248555	0.00023	0.00024	-0.00013
	0.585107	-0.198451	-0.247963	0.00025	0.00025	-0.00019
	0.412333	0.232838	-0.252081	0.00008	0.00027	0.00009
	0.445283	0.189483	-0.251490	0.00009	0.00028	0.00004
	0.514854	-0.105989	-0.249074	0.00022	0.00023	-0.00007

	0.547804	-0.149343	-0.248483	0.00023	0.00024	-0.00012
	-0.551227	0.273682	-0.255566	0.00006	-0.00018	0.00013
	-0.518278	0.230327	-0.254975	0.00008	-0.00017	0.00007
	-0.448706	-0.065145	-0.252560	0.00020	-0.00022	-0.00004
	-0.415756	-0.108500	-0.251969	0.00022	-0.00021	-0.00009
	-0.588530	0.322790	-0.256086	0.00005	-0.00019	0.00019
	-0.555580	0.279435	-0.255495	0.00007	-0.00018	0.00014
	-0.486009	-0.016037	-0.253080	0.00019	-0.00023	0.00002
	-0.453059	-0.059392	-0.252489	0.00021	-0.00022	-0.00003
711	0.449640	0.178718	-0.259459	0.00017	0.00000	0.00003
	0.482590	0.113296	-0.257861	0.00020	0.00000	-0.00002
	0.552162	-0.192725	-0.251266	0.00038	-0.00001	-0.00013
	0.585112	-0.258147	-0.249667	0.00042	-0.00001	-0.00019
	0.412334	0.253161	-0.261148	0.00014	0.00000	0.00009
	0.445284	0.187739	-0.259550	0.00017	0.00000	0.00004
	0.514856	-0.118282	-0.252955	0.00035	-0.00002	-0.00007
	0.547806	-0.183704	-0.251356	0.00039	-0.00001	-0.00012
	-0.551235	0.308346	-0.258333	0.00012	-0.00020	0.00013
	-0.518285	0.242924	-0.256734	0.00015	-0.00020	0.00007
	-0.448712	-0.063097	-0.250139	0.00033	-0.00022	-0.00004
	-0.415762	-0.128519	-0.248540	0.00037	-0.00021	-0.00009
	-0.588541	0.382789	-0.260022	0.00009	-0.00020	0.00019
	-0.555591	0.317367	-0.258423	0.00012	-0.00020	0.00013
	-0.486018	0.011346	-0.251828	0.00030	-0.00022	0.00002
	-0.453068	-0.054076	-0.250229	0.00034	-0.00022	-0.00003
712	0.449645	0.178224	-0.260916	0.00034	0.00016	0.00003
	0.482595	0.089100	-0.256998	0.00039	0.00016	-0.00002
	0.552167	-0.238066	-0.244027	0.00059	0.00014	-0.00013
	0.585117	-0.327190	-0.240110	0.00064	0.00014	-0.00019
	0.412336	0.279882	-0.265401	0.00030	0.00015	0.00009
	0.445286	0.190758	-0.261483	0.00035	0.00016	0.00004
	0.514858	-0.136408	-0.248512	0.00054	0.00014	-0.00007
	0.547808	-0.225532	-0.244595	0.00059	0.00014	-0.00013
	-0.551240	0.350494	-0.268054	0.00027	-0.00011	0.00013
	-0.518290	0.261370	-0.264136	0.00032	-0.00011	0.00007
	-0.448718	-0.065796	-0.251165	0.00052	-0.00013	-0.00004
	-0.415768	-0.154920	-0.247248	0.00057	-0.00012	-0.00009
	-0.588549	0.452152	-0.272539	0.00023	-0.00011	0.00019
	-0.555599	0.363028	-0.268621	0.00028	-0.00011	0.00013
	-0.486027	0.035862	-0.255650	0.00048	-0.00013	0.00002
	-0.453077	-0.053262	-0.251733	0.00053	-0.00012	-0.00003
713	0.449649	0.181379	-0.252332	0.00031	0.00006	0.00003
	0.482599	0.068555	-0.244572	0.00038	0.00006	-0.00002
	0.552170	-0.287066	-0.220471	0.00060	0.00004	-0.00013
	0.585120	-0.399890	-0.212711	0.00067	0.00004	-0.00018
	0.412337	0.310256	-0.261491	0.00026	0.00007	0.00009
	0.445287	0.197431	-0.253731	0.00032	0.00007	0.00004
	0.514859	-0.158190	-0.229630	0.00054	0.00005	-0.00007
	0.547809	-0.271014	-0.221870	0.00061	0.00004	-0.00012
	-0.551244	0.396307	-0.258638	0.00027	-0.00015	0.00013
	-0.518294	0.283483	-0.250877	0.00033	-0.00015	0.00007
	-0.448722	-0.072138	-0.226777	0.00055	-0.00017	-0.00004
	-0.415772	-0.184962	-0.219016	0.00062	-0.00017	-0.00009
	-0.588555	0.525184	-0.267797	0.00021	-0.00014	0.00019
	-0.555605	0.412360	-0.260037	0.00028	-0.00015	0.00014
	-0.486033	0.056739	-0.235936	0.00050	-0.00017	0.00002
	-0.453083	-0.056085	-0.228176	0.00056	-0.00017	-0.00003
714	0.449650	0.185600	-0.253554	0.00019	0.00008	0.00003
	0.482600	0.054525	-0.243581	0.00026	0.00008	-0.00002
	0.552172	-0.326599	-0.212018	0.00049	0.00006	-0.00013
	0.585122	-0.457674	-0.202045	0.00056	0.00006	-0.00018
	0.412338	0.335441	-0.265435	0.00013	0.00008	0.00009
	0.445288	0.204366	-0.255462	0.00020	0.00008	0.00004
	0.514860	-0.176758	-0.223899	0.00043	0.00006	-0.00007
	0.547810	-0.307832	-0.213926	0.00050	0.00006	-0.00012
	-0.551245	0.433387	-0.218290	0.00009	-0.00027	0.00013
	-0.518295	0.302312	-0.208317	0.00016	-0.00027	0.00007
	-0.448723	-0.078811	-0.176754	0.00039	-0.00029	-0.00003
	-0.415773	-0.209886	-0.166781	0.00046	-0.00029	-0.00009
	-0.588556	0.583228	-0.230171	0.00003	-0.00027	0.00019
	-0.555607	0.452154	-0.220198	0.00010	-0.00027	0.00013
	-0.486035	0.071030	-0.188635	0.00033	-0.00029	0.00003
	-0.453085	-0.060045	-0.178662	0.00040	-0.00029	-0.00003
715	0.494728	0.277426	-0.079015	-0.00026	0.00043	0.00004
	0.482205	0.322829	-0.077356	-0.00029	0.00043	-0.00002
	0.455883	-0.073208	-0.099285	0.00004	0.00042	-0.00013
	0.443360	-0.027804	-0.097626	0.00000	0.00041	-0.00019
	0.509653	0.224709	-0.080685	-0.00022	0.00044	0.00010
	0.497130	0.270113	-0.079026	-0.00025	0.00044	0.00005
	0.470808	-0.125924	-0.100955	0.00008	0.00042	-0.00007
	0.458285	-0.080521	-0.099296	0.00004	0.00042	-0.00012
	-0.461967	0.208150	-0.171405	-0.00018	-0.00041	0.00013
	-0.474490	0.253554	-0.169746	-0.00022	-0.00041	0.00007

	-0.500812	-0.142483	-0.191676	0.00011	-0.00042	-0.00004
	-0.513336	-0.097080	-0.190017	0.00008	-0.00043	-0.00010
	-0.447042	0.155434	-0.173075	-0.00014	-0.00040	0.00019
	-0.459565	0.200837	-0.171416	-0.00018	-0.00041	0.00014
	-0.485887	-0.195199	-0.193346	0.00015	-0.00042	0.00002
	-0.498410	-0.149796	-0.191687	0.00012	-0.00042	-0.00003
716	0.495122	0.268870	-0.120193	-0.00024	0.00041	0.00004
	0.482624	0.308542	-0.117843	-0.00027	0.00040	-0.00002
	0.456373	-0.074992	-0.141610	0.00005	0.00039	-0.00013
	0.443874	-0.035320	-0.139260	0.00002	0.00038	-0.00019
	0.510020	0.222736	-0.122653	-0.00020	0.00042	0.00010
	0.497522	0.262408	-0.120304	-0.00023	0.00041	0.00004
	0.471271	-0.121126	-0.144070	0.00009	0.00040	-0.00007
	0.458772	-0.081455	-0.141721	0.00005	0.00039	-0.00013
	-0.461963	0.209383	-0.127646	-0.00018	-0.00040	0.00013
	-0.474461	0.249055	-0.125296	-0.00021	-0.00041	0.00007
	-0.500712	-0.134479	-0.149063	0.00010	-0.00042	-0.00004
	-0.513210	-0.094807	-0.146713	0.00007	-0.00043	-0.00010
	-0.447065	0.163249	-0.130106	-0.00014	-0.00039	0.00019
	-0.459563	0.202921	-0.127757	-0.00018	-0.00040	0.00013
	-0.485814	-0.180613	-0.151523	0.00014	-0.00041	0.00002
	-0.498312	-0.140942	-0.149174	0.00011	-0.00042	-0.00003
717	0.495285	0.260606	-0.161993	-0.00024	0.00039	0.00003
	0.482803	0.294557	-0.158981	-0.00028	0.00038	-0.00002
	0.456602	-0.077388	-0.184390	0.00005	0.00041	-0.00013
	0.444120	-0.043437	-0.181378	0.00002	0.00041	-0.00019
	0.510164	0.221036	-0.165195	-0.00020	0.00040	0.00010
	0.497682	0.254987	-0.162183	-0.00024	0.00039	0.00004
	0.471480	-0.116958	-0.187592	0.00009	0.00042	-0.00007
	0.458998	-0.083007	-0.184581	0.00006	0.00041	-0.00012
	-0.461744	0.210845	-0.083936	-0.00019	-0.00044	0.00012
	-0.474226	0.244796	-0.080924	-0.00023	-0.00045	0.00007
	-0.500428	-0.127149	-0.106333	0.00010	-0.00042	-0.00005
	-0.512910	-0.093198	-0.103322	0.00007	-0.00042	-0.00010
	-0.446866	0.171275	-0.087138	-0.00016	-0.00043	0.00018
	-0.459348	0.205226	-0.084126	-0.00019	-0.00044	0.00013
	-0.485549	-0.166719	-0.109536	0.00014	-0.00041	0.00002
	-0.498032	-0.132768	-0.106524	0.00010	-0.00042	-0.00004
718	0.491462	0.277867	-0.100635	-0.00023	0.00041	0.00003
	0.483996	0.323278	-0.102148	-0.00027	0.00040	-0.00002
	0.468211	-0.072875	-0.093666	0.00005	0.00039	-0.00014
	0.460745	-0.027464	-0.095180	0.00002	0.00038	-0.00019
	0.500582	0.225143	-0.098816	-0.00020	0.00042	0.00010
	0.493116	0.270553	-0.100329	-0.00023	0.00041	0.00004
	0.477330	-0.125599	-0.091847	0.00009	0.00040	-0.00008
	0.469864	-0.080188	-0.093361	0.00006	0.00039	-0.00013
	-0.473624	0.208137	-0.188682	-0.00018	-0.00040	0.00013
	-0.481090	0.253548	-0.190196	-0.00021	-0.00041	0.00008
	-0.496875	-0.142604	-0.181714	0.00011	-0.00042	-0.00004
	-0.504341	-0.097193	-0.183228	0.00007	-0.00043	-0.00009
	-0.464504	0.155413	-0.186863	-0.00014	-0.00039	0.00020
	-0.471970	0.200824	-0.188377	-0.00018	-0.00040	0.00014
	-0.487755	-0.195329	-0.179895	0.00014	-0.00041	0.00003
	-0.495221	-0.149918	-0.181409	0.00011	-0.00042	-0.00003
719	0.492000	0.260662	-0.183711	-0.00024	0.00041	0.00003
	0.484536	0.294628	-0.183833	-0.00027	0.00040	-0.00002
	0.468764	-0.077443	-0.179424	0.00005	0.00039	-0.00014
	0.461300	-0.043476	-0.179546	0.00002	0.00038	-0.00019
	0.501117	0.221078	-0.183470	-0.00020	0.00042	0.00009
	0.493654	0.255044	-0.183592	-0.00023	0.00041	0.00004
	0.477881	-0.117027	-0.179182	0.00009	0.00039	-0.00008
	0.470418	-0.083060	-0.179304	0.00005	0.00039	-0.00013
	-0.473189	0.211204	-0.100461	-0.00018	-0.00040	0.00013
	-0.480652	0.245170	-0.100583	-0.00021	-0.00041	0.00007
	-0.496425	-0.126901	-0.096174	0.00011	-0.00042	-0.00004
	-0.503888	-0.092934	-0.096296	0.00007	-0.00043	-0.00010
	-0.464071	0.171619	-0.100220	-0.00014	-0.00039	0.00019
	-0.471535	0.205586	-0.100342	-0.00017	-0.00040	0.00013
	-0.487307	-0.166485	-0.095932	0.00015	-0.00042	0.00002
	-0.494771	-0.132519	-0.096055	0.00011	-0.00042	-0.00003
720	0.480322	0.278092	-0.122106	-0.00022	0.00041	0.00000
	0.477911	0.323507	-0.126796	-0.00026	0.00040	-0.00006
	0.488386	-0.072674	-0.088949	0.00006	0.00044	-0.00017
	0.485976	-0.027259	-0.093640	0.00003	0.00043	-0.00022
	0.483634	0.225362	-0.116794	-0.00019	0.00042	0.00006
	0.481224	0.270778	-0.121484	-0.00022	0.00041	0.00001
	0.491699	-0.125404	-0.083637	0.00010	0.00044	-0.00011
	0.489288	-0.079988	-0.088328	0.00007	0.00044	-0.00016
	-0.493347	0.208121	-0.205243	-0.00018	-0.00042	0.00013
	-0.495757	0.253536	-0.209933	-0.00021	-0.00043	0.00008
	-0.485282	-0.142646	-0.172086	0.00011	-0.00040	-0.00004
	-0.487693	-0.097230	-0.176777	0.00008	-0.00041	-0.00009
	-0.490034	0.155391	-0.199931	-0.00014	-0.00041	0.00019

	-0.492444	0.200806	-0.204621	-0.00017	-0.00042	0.00014
	-0.481970	-0.195375	-0.166774	0.00015	-0.00039	0.00002
	-0.484380	-0.149960	-0.171465	0.00012	-0.00040	-0.00003
721	0.480741	0.269041	-0.164122	-0.00023	0.00041	0.00003
	0.478309	0.308720	-0.168110	-0.00026	0.00040	-0.00002
	0.488924	-0.074898	-0.132123	0.00006	0.00039	-0.00014
	0.486492	-0.035218	-0.136111	0.00002	0.00038	-0.00019
	0.484079	0.222899	-0.159599	-0.00019	0.00042	0.00009
	0.481647	0.262578	-0.163587	-0.00023	0.00041	0.00004
	0.492262	-0.121040	-0.127600	0.00009	0.00040	-0.00008
	0.489830	-0.081361	-0.131587	0.00006	0.00039	-0.00013
	-0.493159	0.209507	-0.160511	-0.00018	-0.00040	0.00013
	-0.495591	0.249187	-0.164498	-0.00021	-0.00041	0.00008
	-0.484976	-0.134431	-0.128512	0.00011	-0.00042	-0.00004
	-0.487408	-0.094752	-0.132499	0.00008	-0.00043	-0.00009
	-0.489822	0.163365	-0.155987	-0.00014	-0.00039	0.00019
	-0.492254	0.203045	-0.159975	-0.00017	-0.00040	0.00014
	-0.481639	-0.180573	-0.123988	0.00015	-0.00041	0.00002
	-0.484071	-0.140894	-0.127976	0.00011	-0.00042	-0.00003
722	0.480931	0.260674	-0.205270	-0.00023	0.00041	0.00003
	0.478487	0.294638	-0.208533	-0.00027	0.00040	-0.00002
	0.489195	-0.077448	-0.174543	0.00006	0.00039	-0.00014
	0.486751	-0.043483	-0.177805	0.00002	0.00038	-0.00019
	0.484282	0.221091	-0.201580	-0.00020	0.00042	0.00010
	0.481839	0.255056	-0.204842	-0.00023	0.00041	0.00004
	0.492547	-0.117031	-0.170852	0.00009	0.00040	-0.00007
	0.490103	-0.083066	-0.174114	0.00006	0.00039	-0.00013
	-0.492676	0.211416	-0.117271	-0.00017	-0.00043	0.00016
	-0.495120	0.245381	-0.120534	-0.00020	-0.00043	0.00010
	-0.484412	-0.126705	-0.086543	0.00012	-0.00045	-0.00001
	-0.486856	-0.092741	-0.089806	0.00009	-0.00045	-0.00006
	-0.489325	0.171834	-0.113580	-0.00013	-0.00042	0.00022
	-0.491768	0.205799	-0.116843	-0.00016	-0.00042	0.00017
	-0.481061	-0.166288	-0.082853	0.00016	-0.00044	0.00005
	-0.483504	-0.132323	-0.086115	0.00013	-0.00045	0.00000

SPOSTAMENTI NODI

CASO DI CARICO : 7 SLU con SISMAV PRINC COMBINAZIONE

N. 6 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.00
2	Peso_proprio_Fondaz	+	1.00
3	Permanente	+	1.00
4	Variabile	+	0.30
7	Variabile_Scale	+	0.60
11	Spinta_terre	+	1.00

N. 2 CASI DI CARICO

5	SISMAV SLU	1.00
4	SISMAX SLU	0.30

1)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.001	+0.30*c004.001		
2)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.001	+0.30*c004.002		
3)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.001	+0.30*c004.003		
4)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.001	+0.30*c004.004		
5)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.002	+0.30*c004.001		
6)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.002	+0.30*c004.002		
7)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.002	+0.30*c004.003		
8)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.002	+0.30*c004.004		
9)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.003	+0.30*c004.001		
10)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.003	+0.30*c004.002		
11)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.003	+0.30*c004.003		
12)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.003	+0.30*c004.004		
13)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.004	+0.30*c004.001		
14)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.004	+0.30*c004.002		
15)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.004	+0.30*c004.003		
16)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.004	+0.30*c004.004		

Unità di misura: SX,SY,SZ [cm]; RX,RY,RZ [rad]



Coefficiente multiplicativo: 1.000000

Nodo	SX	SY	SZ	RX	RY	RZ
457	0.030882	0.097140	-0.146031	-0.00040	0.00012	-0.00007
	0.031416	0.095052	-0.145915	-0.00039	0.00012	-0.00007
	-0.012399	0.098805	-0.128574	-0.00043	-0.00005	-0.00004
	-0.011865	0.096717	-0.128458	-0.00042	-0.00005	-0.00004
	0.026751	0.115718	-0.147159	-0.00049	0.00011	-0.00010
	0.027285	0.113630	-0.147042	-0.00048	0.00011	-0.00010
	-0.016530	0.117383	-0.129702	-0.00052	-0.00006	-0.00008
	-0.015996	0.115296	-0.129585	-0.00051	-0.00006	-0.00007
	0.018634	-0.095126	-0.130251	0.00047	0.00010	0.00006
	0.019168	-0.097214	-0.130135	0.00048	0.00010	0.00007
	-0.024647	-0.093461	-0.112794	0.00045	-0.00008	0.00009
	-0.024113	-0.095548	-0.112677	0.00046	-0.00008	0.00009
	0.014503	-0.076547	-0.131379	0.00038	0.00009	0.00003
	0.015037	-0.078635	-0.131262	0.00039	0.00009	0.00003
	-0.028778	-0.074882	-0.113921	0.00036	-0.00009	0.00006
	-0.028244	-0.076970	-0.113805	0.00037	-0.00009	0.00006
458	-0.005555	0.043311	-0.184279	-0.00071	0.00000	-0.00003
	-0.006437	0.043486	-0.184611	-0.00072	0.00000	-0.00003
	-0.026437	0.039590	-0.195071	-0.00074	0.00000	-0.00003
	-0.027319	0.039765	-0.195402	-0.00074	0.00000	-0.00003
	0.001141	0.041479	-0.181758	-0.00064	0.00000	-0.00006
	0.000260	0.041653	-0.182090	-0.00065	0.00000	-0.00005
	-0.019741	0.037757	-0.192550	-0.00066	0.00000	-0.00006
	-0.020622	0.037932	-0.192882	-0.00067	0.00000	-0.00005
	0.014324	-0.041070	-0.197737	0.00045	0.00000	-0.00010
	0.013442	-0.040896	-0.198069	0.00044	0.00000	-0.00010
	-0.006558	-0.044792	-0.208529	0.00043	0.00000	-0.00010
	-0.007440	-0.044617	-0.208861	0.00042	0.00000	-0.00010
	0.021020	-0.042903	-0.195217	0.00052	0.00000	-0.00013
	0.020139	-0.042729	-0.195549	0.00051	0.00000	-0.00012
	0.000138	-0.046624	-0.206009	0.00050	0.00000	-0.00013
	-0.000743	-0.046450	-0.206341	0.00049	0.00000	-0.00012
459	-0.005257	0.041080	-0.186508	-0.00073	0.00000	-0.00011
	-0.006139	0.041350	-0.186520	-0.00074	0.00000	-0.00011
	-0.026134	0.037374	-0.190114	-0.00075	0.00000	-0.00011
	-0.027016	0.037645	-0.190126	-0.00076	0.00000	-0.00011
	0.001439	0.038571	-0.186731	-0.00065	0.00000	-0.00013
	0.000558	0.038841	-0.186743	-0.00066	0.00000	-0.00013
	-0.019438	0.034865	-0.190337	-0.00067	0.00000	-0.00013
	-0.020320	0.035135	-0.190349	-0.00068	0.00000	-0.00013
	0.014610	-0.042927	-0.198108	0.00045	0.00000	-0.00004
	0.013728	-0.042657	-0.198120	0.00044	0.00000	-0.00003
	-0.006268	-0.046633	-0.201714	0.00042	0.00000	-0.00004
	-0.007149	-0.046363	-0.201726	0.00041	0.00000	-0.00003
	0.021306	-0.045437	-0.198332	0.00053	0.00000	-0.00006
	0.020424	-0.045166	-0.198344	0.00052	0.00000	-0.00005
	0.000429	-0.049142	-0.201938	0.00050	0.00000	-0.00006
	-0.000453	-0.048872	-0.201950	0.00049	0.00000	-0.00006
460	-0.005168	0.040180	-0.186703	-0.00074	0.00000	-0.00011
	-0.006054	0.040480	-0.186605	-0.00075	0.00000	-0.00011
	-0.026135	0.036473	-0.187856	-0.00076	0.00000	-0.00011
	-0.027021	0.036773	-0.187758	-0.00077	0.00000	-0.00011
	0.001565	0.037462	-0.187865	-0.00066	0.00000	-0.00013
	0.000679	0.037762	-0.187767	-0.00067	0.00000	-0.00013
	-0.019402	0.033755	-0.189018	-0.00068	0.00000	-0.00013
	-0.020288	0.034055	-0.188920	-0.00069	0.00000	-0.00013
	0.014799	-0.043496	-0.198910	0.00044	0.00000	-0.00004
	0.013913	-0.043196	-0.198813	0.00043	0.00000	-0.00003
	-0.006168	-0.047202	-0.200064	0.00042	0.00000	-0.00004
	-0.007054	-0.046902	-0.199966	0.00041	0.00000	-0.00003
	0.021532	-0.046214	-0.200072	0.00052	0.00000	-0.00006
	0.020646	-0.045914	-0.199975	0.00051	0.00000	-0.00005
	0.000565	-0.049920	-0.201226	0.00050	0.00000	-0.00006
	-0.000321	-0.049620	-0.201128	0.00049	0.00000	-0.00005
461	-0.005056	0.039233	-0.186544	-0.00074	0.00000	-0.00011
	-0.005946	0.039563	-0.186338	-0.00075	0.00000	-0.00011
	-0.026104	0.035526	-0.185261	-0.00077	0.00000	-0.00012
	-0.026994	0.035855	-0.185055	-0.00078	0.00000	-0.00011
	0.001711	0.036311	-0.188633	-0.00066	0.00000	-0.00013
	0.000821	0.036640	-0.188427	-0.00067	0.00000	-0.00013
	-0.019337	0.032603	-0.187351	-0.00068	0.00000	-0.00014
	-0.020227	0.032933	-0.187145	-0.00069	0.00000	-0.00013
	0.015005	-0.044035	-0.199909	0.00044	0.00000	-0.00003
	0.014115	-0.043705	-0.199703	0.00043	0.00000	-0.00003
	-0.006043	-0.047742	-0.198627	0.00042	0.00000	-0.00003
	-0.006933	-0.047413	-0.198421	0.00041	0.00000	-0.00003
	0.021772	-0.046957	-0.201998	0.00052	0.00000	-0.00005
	0.020882	-0.046628	-0.201792	0.00051	0.00000	-0.00005
	0.000724	-0.050665	-0.200716	0.00050	0.00000	-0.00005
	-0.000166	-0.050335	-0.200510	0.00049	0.00000	-0.00005

462	0.006967	0.124236	-0.082726	0.00010	0.00058	0.00033
	0.008914	0.121461	-0.083632	0.00009	0.00056	0.00032
	-0.046140	0.127199	-0.084806	0.00035	0.00071	0.00060
	-0.044193	0.124424	-0.085712	0.00034	0.00068	0.00058
	-0.009261	0.149024	-0.074483	0.00017	0.00083	0.00047
	-0.007314	0.146249	-0.075389	0.00016	0.00080	0.00045
	-0.062368	0.151988	-0.076563	0.00042	0.00095	0.00073
	-0.060421	0.149213	-0.077469	0.00041	0.00093	0.00072
	0.059442	-0.124267	-0.170840	-0.00041	-0.00115	-0.00081
	0.061389	-0.127042	-0.171746	-0.00042	-0.00118	-0.00083
	0.006335	-0.121303	-0.172920	-0.00016	-0.00102	-0.00055
	0.008282	-0.124078	-0.173826	-0.00017	-0.00105	-0.00056
	0.043214	-0.099478	-0.162597	-0.00034	-0.00091	-0.00068
	0.045161	-0.102253	-0.163503	-0.00035	-0.00093	-0.00069
	-0.009892	-0.096515	-0.164677	-0.00009	-0.00078	-0.00041
	-0.007946	-0.099290	-0.165583	-0.00009	-0.00081	-0.00043
463	0.007179	0.123495	-0.087893	-0.00029	0.00049	-0.00007
	0.009096	0.120785	-0.088544	-0.00029	0.00047	-0.00007
	-0.045598	0.126345	-0.091150	-0.00020	0.00059	-0.00008
	-0.043680	0.123635	-0.091802	-0.00020	0.00056	-0.00008
	-0.008787	0.147724	-0.081924	-0.00033	0.00070	-0.00012
	-0.006870	0.145013	-0.082575	-0.00032	0.00067	-0.00012
	-0.061563	0.150574	-0.085182	-0.00023	0.00079	-0.00013
	-0.059646	0.147864	-0.085833	-0.00023	0.00077	-0.00013
	0.058500	-0.123074	-0.160335	0.00018	-0.00097	0.00013
	0.060417	-0.125784	-0.160986	0.00019	-0.00100	0.00014
	0.005723	-0.120224	-0.163593	0.00028	-0.00088	0.00012
	0.007641	-0.122934	-0.164244	0.00028	-0.00090	0.00013
	0.042534	-0.098845	-0.154367	0.00015	-0.00077	0.00008
	0.044451	-0.101555	-0.155018	0.00015	-0.00079	0.00009
	-0.010242	-0.095995	-0.157624	0.00024	-0.00067	0.00007
	-0.008325	-0.098705	-0.158276	0.00025	-0.00069	0.00008
464	0.007947	0.114887	-0.105872	-0.00045	-0.00010	-0.00010
	0.009800	0.112956	-0.107420	-0.00044	-0.00008	-0.00010
	-0.044127	0.118074	-0.076856	-0.00044	-0.00045	-0.00010
	-0.042275	0.116142	-0.078404	-0.00043	-0.00043	-0.00009
	-0.007449	0.132400	-0.092287	-0.00050	-0.00026	-0.00015
	-0.005597	0.130469	-0.093835	-0.00050	-0.00025	-0.00014
	-0.059524	0.135587	-0.063272	-0.00049	-0.00061	-0.00014
	-0.057672	0.133655	-0.064820	-0.00049	-0.00059	-0.00014
	0.056786	-0.115452	-0.181831	0.00036	0.00070	0.00006
	0.058639	-0.117383	-0.183380	0.00037	0.00072	0.00006
	0.004712	-0.112266	-0.152816	0.00037	0.00035	0.00006
	0.006564	-0.114197	-0.154364	0.00038	0.00037	0.00007
	0.041390	-0.097939	-0.168247	0.00031	0.00054	0.00001
	0.043242	-0.099870	-0.169795	0.00031	0.00055	0.00002
	-0.010685	-0.094753	-0.139231	0.00032	0.00019	0.00002
	-0.008833	-0.096684	-0.140779	0.00032	0.00021	0.00002
465	0.045628	0.123328	-0.113023	-0.00026	0.00013	0.00007
	0.046693	0.120632	-0.113741	-0.00026	0.00013	0.00008
	-0.008080	0.125486	-0.095083	-0.00018	-0.00006	0.00009
	-0.007015	0.122790	-0.095801	-0.00018	-0.00005	0.00010
	0.036997	0.147396	-0.106544	-0.00029	0.00011	0.00003
	0.038062	0.144700	-0.107262	-0.00029	0.00012	0.00004
	-0.016711	0.149554	-0.088604	-0.00022	-0.00008	0.00005
	-0.015646	0.146858	-0.089323	-0.00021	-0.00007	0.00005
	0.019477	-0.122308	-0.165833	0.00015	0.00007	-0.00005
	0.020542	-0.125004	-0.166552	0.00015	0.00008	-0.00005
	-0.034232	-0.120150	-0.147894	0.00022	-0.00011	-0.00003
	-0.033166	-0.122846	-0.148612	0.00023	-0.00011	-0.00003
	0.010846	-0.098240	-0.159355	0.00011	0.00006	-0.00009
	0.011911	-0.100936	-0.160073	0.00012	0.00006	-0.00009
	-0.042863	-0.096082	-0.141415	0.00019	-0.00013	-0.00007
	-0.041797	-0.098778	-0.142133	0.00019	-0.00013	-0.00007
466	0.019715	0.113691	-0.131291	-0.00024	0.00004	-0.00017
	0.020769	0.111789	-0.132180	-0.00023	0.00005	-0.00016
	-0.033343	0.116656	-0.090674	-0.00024	-0.00015	-0.00025
	-0.032289	0.114754	-0.091563	-0.00023	-0.00014	-0.00024
	0.011174	0.130932	-0.123569	-0.00032	-0.00001	-0.00027
	0.012228	0.129030	-0.124458	-0.00031	-0.00001	-0.00026
	-0.041884	0.133897	-0.082952	-0.00033	-0.00020	-0.00034
	-0.040830	0.131995	-0.083841	-0.00032	-0.00019	-0.00033
	0.045891	-0.114550	-0.190718	0.00018	0.00039	0.00019
	0.046945	-0.116451	-0.191607	0.00019	0.00039	0.00020
	-0.007168	-0.111585	-0.150101	0.00017	0.00020	0.00012
	-0.006113	-0.113486	-0.150990	0.00018	0.00020	0.00013
	0.037350	-0.097309	-0.182997	0.00010	0.00033	0.00010
	0.038404	-0.099210	-0.183886	0.00011	0.00034	0.00011
	-0.015709	-0.094344	-0.142380	0.00009	0.00014	0.00002
	-0.014654	-0.096245	-0.143269	0.00010	0.00015	0.00004
467	0.010030	0.137127	-0.087342	-0.00045	0.00000	-0.00008
	0.012136	0.134214	-0.087995	-0.00044	0.00000	-0.00007

	-0.050665	0.138815	-0.091269	-0.00040	0.00000	-0.00007
	-0.048559	0.135902	-0.091921	-0.00039	0.00000	-0.00007
	-0.007533	0.163167	-0.081377	-0.00051	0.00000	-0.00013
	-0.005427	0.160255	-0.082029	-0.00050	0.00000	-0.00012
	-0.068228	0.164856	-0.085303	-0.00046	0.00000	-0.00012
	-0.066123	0.161943	-0.085955	-0.00045	0.00000	-0.00011
	0.064638	-0.132373	-0.161014	0.00030	0.00000	0.00009
	0.066744	-0.135285	-0.161667	0.00031	0.00000	0.00009
	0.003943	-0.130685	-0.164941	0.00035	0.00000	0.00009
	0.006048	-0.133597	-0.165593	0.00035	0.00000	0.00010
	0.047075	-0.106332	-0.155049	0.00024	0.00000	0.00004
	0.049181	-0.109245	-0.155701	0.00024	0.00000	0.00004
	-0.013621	-0.104644	-0.158975	0.00028	0.00000	0.00004
	-0.011515	-0.107556	-0.159627	0.00029	0.00000	0.00005
468	0.010606	0.131564	-0.107741	-0.00047	0.00000	-0.00010
	0.012695	0.129431	-0.109284	-0.00046	0.00000	-0.00010
	-0.049897	0.134145	-0.078138	-0.00044	0.00000	-0.00009
	-0.047808	0.132013	-0.079680	-0.00044	0.00000	-0.00008
	-0.006812	0.150933	-0.094188	-0.00052	0.00000	-0.00015
	-0.004723	0.148800	-0.095730	-0.00051	0.00000	-0.00014
	-0.067315	0.153514	-0.064584	-0.00049	0.00000	-0.00013
	-0.065226	0.151382	-0.066126	-0.00049	0.00000	-0.00013
	0.064636	-0.128403	-0.182704	0.00034	0.00000	0.00003
	0.066725	-0.130535	-0.184246	0.00034	0.00000	0.00004
	0.004133	-0.125821	-0.153101	0.00036	0.00000	0.00005
	0.006222	-0.127954	-0.154643	0.00037	0.00000	0.00005
	0.047218	-0.109034	-0.169150	0.00029	0.00000	-0.00001
	0.049307	-0.111166	-0.170693	0.00030	0.00000	-0.00001
	-0.013285	-0.106452	-0.139547	0.00032	0.00000	0.00001
	-0.011196	-0.108585	-0.141089	0.00032	0.00000	0.00001
469	0.049999	0.131890	-0.089970	-0.00052	0.00018	0.00008
	0.051152	0.128056	-0.090402	-0.00050	0.00018	0.00008
	-0.012170	0.128941	-0.113068	-0.00046	-0.00004	0.00009
	-0.011016	0.125108	-0.113499	-0.00045	-0.00004	0.00009
	0.040677	0.165697	-0.085852	-0.00063	0.00015	0.00005
	0.041831	0.161863	-0.086284	-0.00062	0.00015	0.00005
	-0.021492	0.162748	-0.108950	-0.00058	-0.00007	0.00006
	-0.020338	0.158915	-0.109381	-0.00057	-0.00007	0.00006
	0.022259	-0.135707	-0.146396	0.00046	0.00009	-0.00003
	0.023413	-0.139541	-0.146827	0.00047	0.00010	-0.00003
	-0.039910	-0.138656	-0.169493	0.00051	-0.00013	-0.00002
	-0.038756	-0.142489	-0.169924	0.00052	-0.00012	-0.00001
	0.012937	-0.101900	-0.142278	0.00034	0.00007	-0.00006
	0.014091	-0.105734	-0.142709	0.00035	0.00007	-0.00006
	-0.049231	-0.104849	-0.165375	0.00039	-0.00015	-0.00005
	-0.048078	-0.108682	-0.165807	0.00041	-0.00015	-0.00004
470	0.050114	0.135991	-0.102307	-0.00043	0.00000	0.00008
	0.051270	0.132521	-0.102875	-0.00042	0.00000	0.00008
	-0.011363	0.133630	-0.104538	-0.00039	0.00000	0.00008
	-0.010206	0.130159	-0.105106	-0.00038	0.00000	0.00009
	0.040759	0.166795	-0.096996	-0.00052	0.00000	0.00004
	0.041915	0.163324	-0.097564	-0.00051	0.00000	0.00005
	-0.020717	0.164434	-0.099226	-0.00048	0.00000	0.00005
	-0.019561	0.160963	-0.099794	-0.00047	0.00000	0.00005
	0.022201	-0.134607	-0.156301	0.00037	0.00000	-0.00003
	0.023357	-0.138078	-0.156869	0.00038	0.00000	-0.00003
	-0.039276	-0.136969	-0.158532	0.00042	0.00000	-0.00003
	-0.038119	-0.140439	-0.159100	0.00043	0.00000	-0.00002
	0.012846	-0.103804	-0.150990	0.00028	0.00000	-0.00007
	0.014002	-0.107274	-0.151558	0.00029	0.00000	-0.00006
	-0.048630	-0.106165	-0.153220	0.00033	0.00000	-0.00006
	-0.047474	-0.109635	-0.153788	0.00034	0.00000	-0.00006
471	0.050232	0.137601	-0.107110	-0.00040	0.00006	0.00009
	0.051386	0.134335	-0.107755	-0.00039	0.00007	0.00009
	-0.011015	0.135567	-0.100167	-0.00036	-0.00017	0.00011
	-0.009861	0.132302	-0.100812	-0.00035	-0.00017	0.00011
	0.040898	0.166664	-0.101156	-0.00047	0.00003	0.00005
	0.042052	0.163398	-0.101801	-0.00046	0.00003	0.00005
	-0.020348	0.164630	-0.094212	-0.00043	-0.00020	0.00007
	-0.019195	0.161365	-0.094857	-0.00042	-0.00020	0.00007
	0.022371	-0.134309	-0.161402	0.00034	0.00019	-0.00006
	0.023525	-0.137575	-0.162047	0.00035	0.00019	-0.00006
	-0.038875	-0.136343	-0.154459	0.00038	-0.00005	-0.00004
	-0.037722	-0.139608	-0.155104	0.00039	-0.00004	-0.00004
	0.013038	-0.105246	-0.155448	0.00027	0.00015	-0.00010
	0.014191	-0.108512	-0.156093	0.00028	0.00016	-0.00010
	-0.048209	-0.107280	-0.148504	0.00031	-0.00008	-0.00008
	-0.047055	-0.110545	-0.149149	0.00032	-0.00008	-0.00008
472	0.050752	0.137026	-0.112955	-0.00042	0.00015	0.00008
	0.051915	0.134071	-0.113707	-0.00042	0.00016	0.00009
	-0.010775	0.138804	-0.094054	-0.00040	-0.00008	0.00011
	-0.009611	0.135849	-0.094807	-0.00039	-0.00008	0.00011
	0.041304	0.163414	-0.106110	-0.00050	0.00013	0.00003

	0.042468	0.160459	-0.106862	-0.00049	0.00014	0.00004
	-0.020223	0.165192	-0.087209	-0.00047	-0.00010	0.00006
	-0.019059	0.162237	-0.087962	-0.00047	-0.00010	0.00007
	0.022468	-0.134993	-0.168153	0.00039	0.00007	-0.00006
	0.023632	-0.137948	-0.168905	0.00040	0.00007	-0.00005
	-0.039058	-0.133216	-0.149252	0.00041	-0.00016	-0.00003
	-0.037894	-0.136170	-0.150005	0.00042	-0.00016	-0.00003
	0.013021	-0.108605	-0.161308	0.00032	0.00005	-0.00011
	0.014185	-0.111560	-0.162060	0.00032	0.00005	-0.00010
	-0.048506	-0.106828	-0.142407	0.00034	-0.00018	-0.00008
	-0.047342	-0.109782	-0.143160	0.00035	-0.00018	-0.00007
473	0.042209	0.131442	-0.130303	0.00000	0.00016	-0.00007
	0.042890	0.127621	-0.129792	0.00000	0.00016	-0.00006
	-0.021981	0.128769	-0.151492	0.00000	-0.00007	-0.00004
	-0.021300	0.124948	-0.150981	0.00000	-0.00006	-0.00003
	0.036921	0.165123	-0.134771	0.00000	0.00014	-0.00012
	0.037602	0.161302	-0.134260	0.00000	0.00015	-0.00011
	-0.027269	0.162450	-0.155959	0.00000	-0.00008	-0.00009
	-0.026588	0.158629	-0.155448	0.00000	-0.00008	-0.00009
	0.026604	-0.135007	-0.108633	0.00000	0.00011	0.00010
	0.027285	-0.138828	-0.108123	0.00000	0.00011	0.00010
	-0.037586	-0.137680	-0.129822	0.00000	-0.00011	0.00012
	-0.036905	-0.141501	-0.129311	0.00000	-0.00011	0.00013
	0.021316	-0.101326	-0.113101	0.00000	0.00010	0.00005
	0.021997	-0.105147	-0.112590	0.00000	0.00010	0.00005
	-0.042874	-0.103999	-0.134289	0.00000	-0.00013	0.00007
	-0.042193	-0.107820	-0.133779	0.00000	-0.00013	0.00008
474	0.042824	0.137368	-0.149198	0.00000	0.00012	-0.00007
	0.043463	0.134440	-0.149096	0.00000	0.00012	-0.00006
	-0.021544	0.139055	-0.129596	0.00000	-0.00010	-0.00003
	-0.020904	0.136127	-0.129495	0.00000	-0.00010	-0.00003
	0.037918	0.163508	-0.150144	0.00000	0.00011	-0.00012
	0.038557	0.160580	-0.150043	0.00000	0.00011	-0.00011
	-0.026450	0.165196	-0.130543	0.00000	-0.00011	-0.00008
	-0.025811	0.162267	-0.130442	0.00000	-0.00011	-0.00008
	0.028418	-0.134557	-0.133298	0.00000	0.00008	0.00009
	0.029057	-0.137486	-0.133197	0.00000	0.00008	0.00010
	-0.035950	-0.132870	-0.113697	0.00000	-0.00014	0.00013
	-0.035310	-0.135798	-0.113596	0.00000	-0.00013	0.00013
	0.023512	-0.108417	-0.134245	0.00000	0.00007	0.00004
	0.024151	-0.111345	-0.134144	0.00000	0.00007	0.00005
	-0.040856	-0.106729	-0.114643	0.00000	-0.00015	0.00008
	-0.040217	-0.109658	-0.114542	0.00000	-0.00014	0.00008
475	0.034366	0.131803	-0.169169	-0.00044	0.00011	0.00008
	0.034511	0.127973	-0.167702	-0.00043	0.00011	0.00009
	-0.031983	0.129296	-0.189135	-0.00041	-0.00011	0.00010
	-0.031838	0.125466	-0.187668	-0.00040	-0.00010	0.00010
	0.033606	0.165554	-0.182368	-0.00055	0.00010	0.00004
	0.033751	0.161724	-0.180901	-0.00053	0.00010	0.00004
	-0.032743	0.163047	-0.202334	-0.00052	-0.00011	0.00005
	-0.032598	0.159217	-0.200867	-0.00051	-0.00011	0.00006
	0.032367	-0.134955	-0.071133	0.00045	0.00014	-0.00005
	0.032512	-0.138786	-0.069665	0.00046	0.00014	-0.00005
	-0.033982	-0.137463	-0.091099	0.00048	-0.00007	-0.00004
	-0.033837	-0.141293	-0.089631	0.00049	-0.00007	-0.00003
	0.031607	-0.101205	-0.084332	0.00034	0.00013	-0.00010
	0.031752	-0.105035	-0.082864	0.00036	0.00013	-0.00010
	-0.034742	-0.103712	-0.104298	0.00037	-0.00008	-0.00008
	-0.034597	-0.107542	-0.102830	0.00038	-0.00008	-0.00008
476	0.034664	0.135315	-0.177224	-0.00042	0.00000	0.00010
	0.034792	0.131938	-0.176019	-0.00041	0.00000	0.00010
	-0.031595	0.133214	-0.176435	-0.00040	0.00000	0.00009
	-0.031468	0.129837	-0.175230	-0.00039	0.00000	0.00010
	0.034084	0.165256	-0.188213	-0.00051	0.00000	0.00006
	0.034211	0.161879	-0.187007	-0.00050	0.00000	0.00007
	-0.032176	0.163155	-0.187423	-0.00049	0.00000	0.00006
	-0.032048	0.159778	-0.186218	-0.00048	0.00000	0.00006
	0.032617	-0.134270	-0.085340	0.00044	0.00000	-0.00004
	0.032744	-0.137647	-0.084135	0.00045	0.00000	-0.00003
	-0.033643	-0.136371	-0.084551	0.00046	0.00000	-0.00004
	-0.033515	-0.139748	-0.083345	0.00047	0.00000	-0.00004
	0.032036	-0.104328	-0.096328	0.00034	0.00000	-0.00007
	0.032164	-0.107705	-0.095123	0.00036	0.00000	-0.00007
	-0.034223	-0.106429	-0.095539	0.00037	0.00000	-0.00007
	-0.034096	-0.109806	-0.094334	0.00038	0.00000	-0.00007
477	0.035350	0.137616	-0.186110	-0.00041	0.00009	0.00009
	0.035466	0.134695	-0.185140	-0.00040	0.00009	0.00009
	-0.031107	0.139339	-0.165173	-0.00039	-0.00013	0.00010
	-0.030991	0.136418	-0.164204	-0.00038	-0.00013	0.00011
	0.034885	0.163688	-0.195009	-0.00048	0.00009	0.00004
	0.035001	0.160767	-0.194040	-0.00048	0.00009	0.00005
	-0.031572	0.165411	-0.174073	-0.00047	-0.00013	0.00006
	-0.031456	0.162490	-0.173103	-0.00046	-0.00013	0.00006

	0.032774	-0.134226	-0.098025	0.00041	0.00009	-0.00004
	0.032890	-0.137147	-0.097056	0.00042	0.00009	-0.00004
	-0.033683	-0.132503	-0.077089	0.00043	-0.00012	-0.00003
	-0.033567	-0.135424	-0.076119	0.00043	-0.00012	-0.00002
	0.032309	-0.108154	-0.106924	0.00033	0.00009	-0.00008
	0.032425	-0.111075	-0.105955	0.00034	0.00009	-0.00008
	-0.034148	-0.106431	-0.085988	0.00035	-0.00012	-0.00007
	-0.034032	-0.109352	-0.085019	0.00036	-0.00012	-0.00006
478	-0.012468	0.082177	-0.193686	-0.00088	0.00000	0.00025
	-0.014817	0.080606	-0.193994	-0.00087	0.00000	0.00025
	-0.066468	0.084869	-0.200933	-0.00084	0.00000	0.00023
	-0.068816	0.083298	-0.201241	-0.00082	0.00000	0.00023
	0.007056	0.096901	-0.190366	-0.00103	0.00000	0.00025
	0.004707	0.095330	-0.190674	-0.00102	0.00000	0.00025
	-0.046943	0.099593	-0.197612	-0.00099	0.00000	0.00023
	-0.049292	0.098021	-0.197920	-0.00097	0.00000	0.00023
	0.045163	-0.109410	-0.205033	0.00065	0.00000	-0.00009
	0.042815	-0.110982	-0.205341	0.00067	0.00000	-0.00009
	-0.008836	-0.106719	-0.212280	0.00070	0.00000	-0.00011
	-0.011185	-0.108290	-0.212588	0.00072	0.00000	-0.00011
	0.064688	-0.094686	-0.201712	0.00050	0.00000	-0.00009
	0.062339	-0.096258	-0.202020	0.00052	0.00000	-0.00009
	0.010688	-0.091995	-0.208959	0.00055	0.00000	-0.00011
	0.008339	-0.093566	-0.209267	0.00057	0.00000	-0.00011
479	-0.012374	0.084364	-0.196051	-0.00088	0.00000	0.00024
	-0.014719	0.082799	-0.196232	-0.00086	0.00000	0.00024
	-0.066300	0.086925	-0.200439	-0.00083	0.00000	0.00022
	-0.068645	0.085360	-0.200620	-0.00082	0.00000	0.00023
	0.007121	0.099048	-0.193847	-0.00103	0.00000	0.00023
	0.004775	0.097482	-0.194028	-0.00101	0.00000	0.00024
	-0.046806	0.101609	-0.198236	-0.00098	0.00000	0.00022
	-0.049151	0.100043	-0.198417	-0.00096	0.00000	0.00022
	0.045167	-0.110121	-0.204494	0.00065	0.00000	-0.00008
	0.042821	-0.111687	-0.204675	0.00067	0.00000	-0.00007
	-0.008759	-0.107560	-0.208883	0.00069	0.00000	-0.00009
	-0.011105	-0.109126	-0.209064	0.00071	0.00000	-0.00009
	0.064661	-0.095438	-0.202291	0.00050	0.00000	-0.00008
	0.062315	-0.097003	-0.202472	0.00052	0.00000	-0.00008
	0.010735	-0.092877	-0.206680	0.00055	0.00000	-0.00009
	0.008389	-0.094442	-0.206861	0.00056	0.00000	-0.00009
480	-0.011611	0.108301	-0.195512	-0.00069	0.00000	0.00025
	-0.013948	0.106806	-0.194377	-0.00067	0.00000	0.00025
	-0.065382	0.109524	-0.170048	-0.00066	0.00000	0.00024
	-0.067719	0.108029	-0.168914	-0.00065	0.00000	0.00024
	0.007816	0.122481	-0.204910	-0.00078	0.00000	0.00025
	0.005479	0.120986	-0.203776	-0.00077	0.00000	0.00025
	-0.045956	0.123704	-0.179447	-0.00076	0.00000	0.00023
	-0.048293	0.122209	-0.178313	-0.00075	0.00000	0.00023
	0.045745	-0.117825	-0.223552	0.00053	0.00000	-0.00009
	0.043408	-0.119320	-0.222418	0.00054	0.00000	-0.00009
	-0.008027	-0.116602	-0.198089	0.00055	0.00000	-0.00010
	-0.010364	-0.118097	-0.196955	0.00056	0.00000	-0.00010
	0.065171	-0.103645	-0.232951	0.00043	0.00000	-0.00009
	0.062834	-0.105140	-0.231817	0.00044	0.00000	-0.00009
	0.011399	-0.102422	-0.207488	0.00045	0.00000	-0.00010
	0.009062	-0.103917	-0.206354	0.00046	0.00000	-0.00010
481	-0.013471	0.116350	-0.188951	-0.00094	0.00000	0.00002
	-0.015510	0.117534	-0.189375	-0.00095	0.00000	0.00003
	-0.060379	0.114931	-0.202024	-0.00098	0.00000	0.00002
	-0.062418	0.116116	-0.202448	-0.00099	0.00000	0.00003
	0.003282	0.106793	-0.185543	-0.00084	0.00000	-0.00002
	0.001244	0.107978	-0.185968	-0.00085	0.00000	-0.00001
	-0.043626	0.105375	-0.198616	-0.00087	0.00000	-0.00001
	-0.045665	0.106559	-0.199040	-0.00089	0.00000	-0.00001
	0.035758	-0.086175	-0.204225	0.00058	0.00000	-0.00009
	0.033720	-0.084990	-0.204649	0.00056	0.00000	-0.00009
	-0.011150	-0.087593	-0.217298	0.00054	0.00000	-0.00009
	-0.013188	-0.086408	-0.217722	0.00053	0.00000	-0.00008
	0.052512	-0.095731	-0.200817	0.00068	0.00000	-0.00013
	0.050473	-0.094546	-0.201242	0.00066	0.00000	-0.00012
	0.005603	-0.097150	-0.213890	0.00064	0.00000	-0.00012
	0.003565	-0.095965	-0.214314	0.00063	0.00000	-0.00012
482	-0.013112	0.115447	-0.193380	-0.00097	0.00000	0.00002
	-0.015149	0.116771	-0.193366	-0.00098	0.00000	0.00002
	-0.059981	0.114049	-0.196523	-0.00100	0.00000	0.00002
	-0.062018	0.115374	-0.196508	-0.00102	0.00000	0.00003
	0.003628	0.104788	-0.193832	-0.00086	0.00000	-0.00002
	0.001591	0.106112	-0.193818	-0.00087	0.00000	-0.00001
	-0.043241	0.103391	-0.196975	-0.00090	0.00000	-0.00001
	-0.045278	0.104715	-0.196960	-0.00091	0.00000	-0.00001
	0.036075	-0.087261	-0.205723	0.00057	0.00000	-0.00009
	0.034038	-0.085937	-0.205708	0.00056	0.00000	-0.00008
	-0.010793	-0.088659	-0.208866	0.00054	0.00000	-0.00009

	-0.012830	-0.087335	-0.208851	0.00052	0.00000	-0.00008
	0.052815	-0.097920	-0.206175	0.00068	0.00000	-0.00013
	0.050778	-0.096596	-0.206160	0.00067	0.00000	-0.00012
	0.005946	-0.099317	-0.209317	0.00064	0.00000	-0.00012
	0.003909	-0.097993	-0.209303	0.00063	0.00000	-0.00012
483	-0.012904	0.114911	-0.193755	-0.00098	0.00000	0.00002
	-0.014940	0.116315	-0.193489	-0.00099	0.00000	0.00002
	-0.059763	0.113516	-0.191204	-0.00102	0.00000	0.00002
	-0.061799	0.114920	-0.190938	-0.00103	0.00000	0.00003
	0.003833	0.103622	-0.196417	-0.00087	0.00000	-0.00002
	0.001796	0.105026	-0.196152	-0.00088	0.00000	-0.00001
	-0.043026	0.102227	-0.193866	-0.00091	0.00000	-0.00001
	-0.045063	0.103632	-0.193601	-0.00092	0.00000	-0.00001
	0.036275	-0.087873	-0.208746	0.00057	0.00000	-0.00009
	0.034238	-0.086469	-0.208481	0.00056	0.00000	-0.00008
	-0.010584	-0.089267	-0.206195	0.00053	0.00000	-0.00009
	-0.012621	-0.087863	-0.205929	0.00052	0.00000	-0.00008
	0.053012	-0.099162	-0.211409	0.00068	0.00000	-0.00012
	0.050975	-0.097758	-0.211143	0.00067	0.00000	-0.00012
	0.006153	-0.100556	-0.208858	0.00064	0.00000	-0.00012
	0.004116	-0.099152	-0.208592	0.00063	0.00000	-0.00012
484	-0.012872	0.114828	-0.193722	-0.00098	0.00000	0.00002
	-0.014909	0.116244	-0.193416	-0.00100	0.00000	0.00002
	-0.059731	0.113433	-0.190266	-0.00102	0.00000	0.00002
	-0.061767	0.114849	-0.189960	-0.00103	0.00000	0.00003
	0.003864	0.103444	-0.196737	-0.00087	0.00000	-0.00002
	0.001828	0.104860	-0.196431	-0.00088	0.00000	-0.00001
	-0.042994	0.102049	-0.193281	-0.00091	0.00000	-0.00001
	-0.045031	0.103465	-0.192975	-0.00092	0.00000	-0.00001
	0.036306	-0.087964	-0.209350	0.00057	0.00000	-0.00009
	0.034270	-0.086547	-0.209044	0.00056	0.00000	-0.00008
	-0.010552	-0.089359	-0.205894	0.00053	0.00000	-0.00009
	-0.012589	-0.087943	-0.205588	0.00052	0.00000	-0.00008
	0.053043	-0.099348	-0.212365	0.00068	0.00000	-0.00012
	0.051006	-0.097931	-0.212059	0.00067	0.00000	-0.00012
	0.006185	-0.100743	-0.208909	0.00064	0.00000	-0.00012
	0.004148	-0.099327	-0.208603	0.00063	0.00000	-0.00012
485	0.001412	0.236667	-0.553255	0.00154	0.00016	-0.00059
	-0.000744	0.247097	-0.567584	0.00161	0.00018	-0.00062
	-0.074545	0.251849	-0.590603	0.00171	0.00007	-0.00072
	-0.076701	0.262278	-0.604932	0.00178	0.00008	-0.00075
	0.019007	0.148129	-0.432629	0.00099	0.00005	-0.00036
	0.016851	0.158558	-0.446958	0.00106	0.00006	-0.00039
	-0.056950	0.163310	-0.469978	0.00116	-0.00005	-0.00049
	-0.059106	0.173739	-0.484307	0.00123	-0.00003	-0.00052
	0.053966	-0.126659	-0.063633	-0.00063	-0.00019	0.00040
	0.051810	-0.116230	-0.077962	-0.00056	-0.00017	0.00037
	-0.021991	-0.111478	-0.100981	-0.00046	-0.00028	0.00027
	-0.024147	-0.101049	-0.115310	-0.00039	-0.00027	0.00024
	0.071562	-0.215198	0.056992	-0.00118	-0.00030	0.00063
	0.069406	-0.204769	0.042663	-0.00111	-0.00029	0.00061
	-0.004395	-0.200017	0.019644	-0.00101	-0.00040	0.00050
	-0.006552	-0.189588	0.005315	-0.00094	-0.00039	0.00048
486	0.001293	0.229857	-0.601550	0.00162	0.00033	-0.00041
	-0.000836	0.239663	-0.619049	0.00169	0.00035	-0.00043
	-0.074272	0.238286	-0.629680	0.00177	0.00032	-0.00028
	-0.076402	0.248092	-0.647179	0.00184	0.00034	-0.00030
	0.018673	0.146418	-0.455633	0.00103	0.00017	-0.00022
	0.016543	0.156224	-0.473132	0.00111	0.00019	-0.00025
	-0.056893	0.154847	-0.483764	0.00118	0.00015	-0.00010
	-0.059022	0.164653	-0.501262	0.00125	0.00017	-0.00012
	0.053252	-0.107403	-0.025996	-0.00068	-0.00025	0.00029
	0.051122	-0.097597	-0.043494	-0.00061	-0.00023	0.00026
	-0.022314	-0.098973	-0.054126	-0.00053	-0.00026	0.00041
	-0.024443	-0.089167	-0.071625	-0.00046	-0.00024	0.00039
	0.070632	-0.190842	0.119921	-0.00126	-0.00042	0.00047
	0.068502	-0.181035	0.102422	-0.00119	-0.00040	0.00045
	-0.004934	-0.182412	0.091791	-0.00112	-0.00043	0.00060
	-0.007064	-0.172606	0.074292	-0.00105	-0.00041	0.00058
487	0.000861	0.227761	-0.600083	0.00158	-0.00037	0.00046
	-0.001260	0.237413	-0.617639	0.00165	-0.00039	0.00043
	-0.074257	0.235373	-0.627120	0.00172	-0.00049	-0.00015
	-0.076378	0.245025	-0.644676	0.00179	-0.00050	-0.00017
	0.018176	0.145590	-0.453813	0.00101	-0.00023	0.00062
	0.016055	0.155242	-0.471369	0.00108	-0.00025	0.00060
	-0.056942	0.153201	-0.480849	0.00114	-0.00035	0.00002
	-0.059063	0.162853	-0.498405	0.00121	-0.00037	0.00000
	0.052686	-0.103536	-0.024907	-0.00067	0.00022	0.00096
	0.050565	-0.093884	-0.042463	-0.00060	0.00020	0.00094
	-0.022432	-0.095924	-0.051943	-0.00054	0.00010	0.00036
	-0.024553	-0.086272	-0.069499	-0.00046	0.00008	0.00034
	0.070001	-0.185708	0.121363	-0.00125	0.00036	0.00113
	0.067880	-0.176056	0.103807	-0.00118	0.00034	0.00111

	-0.005117	-0.178096	0.094327	-0.00111	0.00024	0.00053
	-0.007238	-0.168444	0.076771	-0.00104	0.00022	0.00050
488	0.000678	0.220412	-0.594302	0.00150	0.00026	-0.00102
	-0.001449	0.229439	-0.609127	0.00156	0.00025	-0.00105
	-0.074142	0.215087	-0.570401	0.00157	-0.00013	-0.00092
	-0.076270	0.224114	-0.585225	0.00163	-0.00014	-0.00095
	0.018050	0.143468	-0.470104	0.00099	0.00035	-0.00075
	0.015922	0.152495	-0.484929	0.00105	0.00034	-0.00078
	-0.056771	0.138144	-0.446203	0.00106	-0.00004	-0.00066
	-0.058898	0.147171	-0.461027	0.00112	-0.00005	-0.00069
	0.052690	-0.083519	-0.098924	-0.00051	0.00053	0.00012
	0.050562	-0.074492	-0.113748	-0.00045	0.00052	0.00009
	-0.022130	-0.088844	-0.075022	-0.00044	0.00014	0.00022
	-0.024258	-0.079817	-0.089846	-0.00038	0.00013	0.00019
	0.070062	-0.160463	0.025274	-0.00102	0.00062	0.00039
	0.067934	-0.151436	0.010450	-0.00096	0.00061	0.00036
	-0.004759	-0.165787	0.049176	-0.00095	0.00023	0.00049
	-0.006886	-0.156760	0.034352	-0.00089	0.00022	0.00045
489	0.045146	0.234738	-0.269861	-0.00083	0.00026	-0.00001
	0.043672	0.245065	-0.272389	-0.00086	0.00025	-0.00001
	-0.022369	0.249470	-0.268384	-0.00087	0.00005	-0.00004
	-0.023843	0.259798	-0.270912	-0.00090	0.00005	-0.00004
	0.057128	0.147096	-0.246319	-0.00055	0.00029	0.00000
	0.055653	0.157424	-0.248847	-0.00059	0.00029	0.00000
	-0.010387	0.161829	-0.244841	-0.00059	0.00009	-0.00003
	-0.011862	0.172156	-0.247369	-0.00063	0.00008	-0.00003
	-0.002094	-0.124684	-0.173094	0.00034	0.00010	0.00009
	-0.003568	-0.114356	-0.175622	0.00030	0.00010	0.00009
	-0.069609	-0.109951	-0.171617	0.00030	-0.00011	0.00006
	-0.071083	-0.099623	-0.174145	0.00026	-0.00011	0.00006
	0.009887	-0.212325	-0.149551	0.00062	0.00014	0.00010
	0.008413	-0.201998	-0.152080	0.00058	0.00013	0.00010
	-0.057628	-0.197593	-0.148074	0.00057	-0.00007	0.00007
	-0.059102	-0.187265	-0.150602	0.00054	-0.00008	0.00007
490	0.045468	0.228616	-0.312650	0.00039	0.00010	-0.00006
	0.044008	0.238389	-0.316638	0.00041	0.00011	-0.00006
	-0.022420	0.237437	-0.309036	0.00045	0.00015	-0.00010
	-0.023879	0.247211	-0.313024	0.00047	0.00016	-0.00010
	0.057296	0.145462	-0.276870	0.00023	0.00003	-0.00003
	0.055837	0.155236	-0.280858	0.00025	0.00004	-0.00003
	-0.010591	0.154284	-0.273256	0.00029	0.00008	-0.00007
	-0.012050	0.164057	-0.277244	0.00031	0.00009	-0.00007
	-0.001731	-0.107347	-0.166199	-0.00021	-0.00015	0.00012
	-0.003190	-0.097573	-0.170188	-0.00019	-0.00014	0.00012
	-0.069618	-0.098526	-0.162585	-0.00015	-0.00009	0.00008
	-0.071077	-0.088752	-0.166574	-0.00013	-0.00008	0.00008
	0.010098	-0.190501	-0.130419	-0.00037	-0.00022	0.00015
	0.008639	-0.180727	-0.134408	-0.00035	-0.00021	0.00015
	-0.057790	-0.181679	-0.126805	-0.00031	-0.00017	0.00011
	-0.059249	-0.171906	-0.130794	-0.00029	-0.00016	0.00011
491	0.045655	0.227130	-0.314806	0.00037	0.00005	-0.00006
	0.044196	0.236808	-0.319004	0.00039	0.00006	-0.00006
	-0.022369	0.235215	-0.312033	0.00042	0.00010	-0.00010
	-0.023828	0.244893	-0.316231	0.00044	0.00011	-0.00010
	0.057480	0.144770	-0.277163	0.00022	-0.00002	-0.00003
	0.056020	0.154448	-0.281361	0.00024	-0.00001	-0.00003
	-0.010544	0.152855	-0.274390	0.00027	0.00003	-0.00006
	-0.012003	0.162533	-0.278588	0.00029	0.00004	-0.00007
	-0.001547	-0.104693	-0.162305	-0.00019	-0.00018	0.00012
	-0.003006	-0.095015	-0.166503	-0.00017	-0.00017	0.00011
	-0.069571	-0.096608	-0.159533	-0.00014	-0.00013	0.00008
	-0.071030	-0.086930	-0.163731	-0.00013	-0.00012	0.00008
	0.010278	-0.187053	-0.124662	-0.00034	-0.00025	0.00015
	0.008819	-0.177375	-0.128860	-0.00032	-0.00024	0.00015
	-0.057746	-0.178968	-0.121889	-0.00029	-0.00020	0.00011
	-0.059205	-0.169290	-0.126087	-0.00027	-0.00019	0.00011
492	0.045901	0.221635	-0.282085	-0.00105	-0.00029	-0.00008
	0.044434	0.230766	-0.285463	-0.00110	-0.00031	-0.00008
	-0.022155	0.216203	-0.272583	-0.00113	-0.00051	-0.00010
	-0.023621	0.225334	-0.275961	-0.00118	-0.00053	-0.00010
	0.057777	0.143874	-0.250834	-0.00063	-0.00014	-0.00007
	0.056311	0.153005	-0.254212	-0.00068	-0.00016	-0.00007
	-0.010279	0.138441	-0.241332	-0.00071	-0.00037	-0.00009
	-0.011745	0.147572	-0.244710	-0.00076	-0.00038	-0.00009
	-0.001198	-0.085256	-0.152072	0.00057	0.00019	0.00005
	-0.002664	-0.076125	-0.155450	0.00052	0.00017	0.00005
	-0.069254	-0.090689	-0.142570	0.00049	-0.00004	0.00003
	-0.070720	-0.081558	-0.145948	0.00044	-0.00006	0.00003
	0.010678	-0.163018	-0.120821	0.00099	0.00034	0.00007
	0.009212	-0.153887	-0.124198	0.00094	0.00032	0.00006
	-0.057378	-0.168450	-0.111319	0.00091	0.00011	0.00005
	-0.058844	-0.159319	-0.114697	0.00086	0.00009	0.00004

493	0.054460	0.148511	-0.101939	-0.00042	0.00020	0.00008
	0.055694	0.144753	-0.102520	-0.00041	0.00020	0.00009
	-0.013316	0.145353	-0.104468	-0.00040	-0.00006	0.00009
	-0.012083	0.141595	-0.105049	-0.00039	-0.00006	0.00009
	0.044459	0.181886	-0.096475	-0.00051	0.00018	0.00005
	0.045692	0.178128	-0.097056	-0.00050	0.00018	0.00005
	-0.023317	0.178728	-0.099004	-0.00048	-0.00008	0.00005
	-0.022084	0.174970	-0.099585	-0.00047	-0.00008	0.00006
	0.024800	-0.146157	-0.157469	0.00040	0.00007	-0.00004
	0.026034	-0.149915	-0.158050	0.00041	0.00007	-0.00003
	-0.042976	-0.149315	-0.159997	0.00042	-0.00019	-0.00003
	-0.041742	-0.153073	-0.160579	0.00043	-0.00019	-0.00003
	0.014799	-0.112782	-0.152004	0.00032	0.00005	-0.00008
	0.016032	-0.116540	-0.152586	0.00033	0.00005	-0.00007
	-0.052977	-0.115940	-0.154533	0.00034	-0.00021	-0.00007
	-0.051744	-0.119698	-0.155114	0.00035	-0.00020	-0.00007
494	-0.021449	0.192443	-0.194706	-0.00079	0.00000	0.00008
	-0.024861	0.194721	-0.195157	-0.00080	0.00000	0.00008
	-0.099635	0.194825	-0.208655	-0.00083	0.00000	0.00008
	-0.103047	0.197104	-0.209106	-0.00084	0.00000	0.00009
	0.007510	0.174507	-0.190975	-0.00070	0.00000	0.00002
	0.004098	0.176785	-0.191426	-0.00071	0.00000	0.00003
	-0.070676	0.176889	-0.204924	-0.00074	0.00000	0.00003
	-0.074088	0.179168	-0.205375	-0.00075	0.00000	0.00004
	0.064101	-0.134537	-0.210969	0.00052	0.00000	-0.00008
	0.060689	-0.132259	-0.211420	0.00050	0.00000	-0.00007
	-0.014085	-0.132155	-0.224918	0.00048	0.00000	-0.00007
	-0.017497	-0.129876	-0.225369	0.00047	0.00000	-0.00007
	0.093060	-0.152473	-0.207237	0.00060	0.00000	-0.00013
	0.089648	-0.150195	-0.207688	0.00059	0.00000	-0.00012
	0.014874	-0.150091	-0.221186	0.00057	0.00000	-0.00012
	0.011463	-0.147812	-0.221637	0.00055	0.00000	-0.00012
495	-0.021058	0.192814	-0.200081	-0.00081	0.00000	0.00008
	-0.024470	0.195279	-0.200057	-0.00082	0.00000	0.00009
	-0.099242	0.195387	-0.203126	-0.00085	0.00000	0.00009
	-0.102655	0.197851	-0.203103	-0.00086	0.00000	0.00009
	0.007902	0.173320	-0.200615	-0.00071	0.00000	0.00003
	0.004490	0.175784	-0.200591	-0.00072	0.00000	0.00004
	-0.070282	0.175893	-0.203660	-0.00075	0.00000	0.00004
	-0.073694	0.178357	-0.203637	-0.00076	0.00000	0.00004
	0.064494	-0.134937	-0.213093	0.00051	0.00000	-0.00008
	0.061082	-0.132472	-0.213069	0.00050	0.00000	-0.00007
	-0.013690	-0.132364	-0.216138	0.00047	0.00000	-0.00007
	-0.017102	-0.129900	-0.216115	0.00046	0.00000	-0.00006
	0.093455	-0.154431	-0.213627	0.00061	0.00000	-0.00013
	0.090042	-0.151967	-0.213603	0.00059	0.00000	-0.00012
	0.015270	-0.151858	-0.216672	0.00057	0.00000	-0.00012
	0.011858	-0.149394	-0.216649	0.00055	0.00000	-0.00012
496	-0.020921	0.193064	-0.200554	-0.00081	0.00000	0.00008
	-0.024333	0.195592	-0.200371	-0.00083	0.00000	0.00009
	-0.099109	0.195701	-0.199924	-0.00085	0.00000	0.00009
	-0.102521	0.198229	-0.199741	-0.00087	0.00000	0.00010
	0.008041	0.173040	-0.202520	-0.00072	0.00000	0.00003
	0.004629	0.175568	-0.202337	-0.00073	0.00000	0.00004
	-0.070146	0.175677	-0.201889	-0.00076	0.00000	0.00004
	-0.073559	0.178205	-0.201706	-0.00077	0.00000	0.00004
	0.064640	-0.135130	-0.215069	0.00051	0.00000	-0.00008
	0.061228	-0.132602	-0.214886	0.00050	0.00000	-0.00007
	-0.013547	-0.132493	-0.214438	0.00047	0.00000	-0.00007
	-0.016960	-0.129965	-0.214255	0.00046	0.00000	-0.00006
	0.093603	-0.155154	-0.217035	0.00061	0.00000	-0.00013
	0.090190	-0.152626	-0.216852	0.00059	0.00000	-0.00012
	0.015415	-0.152517	-0.216404	0.00056	0.00000	-0.00012
	0.012003	-0.149989	-0.216221	0.00055	0.00000	-0.00012
497	-0.020797	0.193345	-0.200510	-0.00082	0.00000	0.00009
	-0.024210	0.195937	-0.200170	-0.00083	0.00000	0.00009
	-0.098988	0.196048	-0.196281	-0.00086	0.00000	0.00009
	-0.102401	0.198640	-0.195941	-0.00087	0.00000	0.00010
	0.008167	0.172788	-0.203886	-0.00072	0.00000	0.00003
	0.004755	0.175380	-0.203546	-0.00073	0.00000	0.00004
	-0.070024	0.175491	-0.199657	-0.00076	0.00000	0.00004
	-0.073436	0.178083	-0.199317	-0.00077	0.00000	0.00005
	0.064775	-0.135345	-0.217480	0.00051	0.00000	-0.00008
	0.061362	-0.132753	-0.217140	0.00049	0.00000	-0.00007
	-0.013416	-0.132642	-0.213251	0.00047	0.00000	-0.00007
	-0.016829	-0.130050	-0.212911	0.00045	0.00000	-0.00006
	0.093739	-0.155902	-0.220856	0.00060	0.00000	-0.00013
	0.090327	-0.153310	-0.220516	0.00059	0.00000	-0.00012
	0.015548	-0.153200	-0.216627	0.00056	0.00000	-0.00012
	0.012136	-0.150608	-0.216287	0.00055	0.00000	-0.00012
498	0.074085	0.186098	-0.119021	-0.00046	0.00012	0.00011
	0.076572	0.180123	-0.119279	-0.00044	0.00013	0.00012
	-0.005039	0.175790	-0.132118	-0.00049	-0.00016	0.00013



	-0.002552	0.169816	-0.132376	-0.00047	-0.00015	0.00013
	0.053400	0.238670	-0.116309	-0.00064	0.00003	0.00006
	0.055887	0.232696	-0.116567	-0.00062	0.00004	0.00007
	-0.025724	0.228363	-0.129406	-0.00066	-0.00025	0.00007
	-0.023237	0.222388	-0.129664	-0.00065	-0.00024	0.00008
	0.012988	-0.177703	-0.149657	0.00068	0.00040	-0.00004
	0.015475	-0.183678	-0.149915	0.00070	0.00041	-0.00004
	-0.066136	-0.188011	-0.162755	0.00065	0.00012	-0.00003
	-0.063649	-0.193985	-0.163013	0.00067	0.00013	-0.00002
	-0.007697	-0.125131	-0.146945	0.00050	0.00031	-0.00010
	-0.005210	-0.131105	-0.147203	0.00052	0.00032	-0.00009
	-0.086822	-0.135439	-0.160043	0.00047	0.00003	-0.00008
	-0.084335	-0.141413	-0.160301	0.00049	0.00004	-0.00007
499	0.072822	0.173703	-0.052540	-0.00020	-0.00025	0.00004
	0.075315	0.168821	-0.053519	-0.00021	-0.00024	0.00005
	-0.005466	0.167276	-0.083458	-0.00010	-0.00030	0.00001
	-0.002972	0.162394	-0.084436	-0.00011	-0.00029	0.00002
	0.052090	0.216926	-0.043169	-0.00019	-0.00031	0.00000
	0.054583	0.212044	-0.044148	-0.00019	-0.00030	0.00001
	-0.026197	0.210499	-0.074087	-0.00009	-0.00037	-0.00003
	-0.023704	0.205617	-0.075065	-0.00009	-0.00036	-0.00002
	0.011487	-0.173644	-0.198896	0.00024	0.00027	-0.00013
	0.013980	-0.178525	-0.199875	0.00023	0.00028	-0.00013
	-0.066800	-0.180070	-0.229814	0.00034	0.00022	-0.00016
	-0.064307	-0.184952	-0.230792	0.00033	0.00022	-0.00016
	-0.009245	-0.130421	-0.189525	0.00025	0.00021	-0.00017
	-0.006752	-0.135303	-0.190504	0.00025	0.00021	-0.00017
	-0.087532	-0.136848	-0.220443	0.00035	0.00015	-0.00020
	-0.085039	-0.141729	-0.221421	0.00035	0.00016	-0.00020
500	0.066087	0.187994	-0.093171	-0.00006	0.00001	-0.00017
	0.067546	0.181994	-0.093761	-0.00005	0.00000	-0.00016
	-0.017698	0.176891	-0.146937	-0.00024	-0.00016	-0.00012
	-0.016239	0.170890	-0.147526	-0.00023	-0.00016	-0.00011
	0.054141	0.240785	-0.087802	-0.00013	0.00006	-0.00024
	0.055600	0.234785	-0.088391	-0.00012	0.00005	-0.00024
	-0.029644	0.229682	-0.141568	-0.00031	-0.00011	-0.00020
	-0.028185	0.223681	-0.142157	-0.00030	-0.00011	-0.00019
	0.030775	-0.177733	-0.149692	0.00035	-0.00020	0.00010
	0.032234	-0.183734	-0.150282	0.00036	-0.00020	0.00011
	-0.053011	-0.188837	-0.203458	0.00017	-0.00037	0.00015
	-0.051551	-0.194837	-0.204047	0.00018	-0.00037	0.00016
	0.018829	-0.124942	-0.144323	0.00028	-0.00015	0.00002
	0.020288	-0.130942	-0.144912	0.00029	-0.00015	0.00003
	-0.064956	-0.136046	-0.198089	0.00010	-0.00031	0.00007
	-0.063497	-0.142046	-0.198678	0.00011	-0.00032	0.00008
501	0.065507	0.175462	-0.088764	-0.00042	0.00006	0.00010
	0.066950	0.170467	-0.089222	-0.00041	0.00006	0.00010
	-0.017839	0.170076	-0.113924	-0.00041	-0.00016	0.00011
	-0.016396	0.165081	-0.114382	-0.00040	-0.00016	0.00012
	0.053700	0.219675	-0.084332	-0.00052	0.00003	0.00004
	0.055143	0.214681	-0.084790	-0.00051	0.00003	0.00005
	-0.029646	0.214289	-0.109492	-0.00051	-0.00019	0.00006
	-0.028203	0.209294	-0.109950	-0.00050	-0.00019	0.00007
	0.030579	-0.177577	-0.149145	0.00043	0.00015	-0.00006
	0.032022	-0.182571	-0.149602	0.00044	0.00016	-0.00005
	-0.052768	-0.182963	-0.174305	0.00044	-0.00006	-0.00004
	-0.051324	-0.187958	-0.174762	0.00045	-0.00006	-0.00003
	0.018772	-0.133363	-0.144713	0.00033	0.00012	-0.00011
	0.020215	-0.138358	-0.145170	0.00034	0.00013	-0.00011
	-0.064574	-0.138750	-0.169873	0.00034	-0.00009	-0.00009
	-0.063131	-0.143744	-0.170330	0.00035	-0.00009	-0.00009
502	0.065441	0.204681	-0.133093	-0.00047	0.00014	0.00013
	0.066442	0.198886	-0.132533	-0.00046	0.00015	0.00013
	-0.033281	0.198690	-0.157025	-0.00045	-0.00008	0.00014
	-0.032279	0.192895	-0.156465	-0.00044	-0.00008	0.00014
	0.057334	0.256151	-0.138081	-0.00058	0.00012	0.00006
	0.058335	0.250356	-0.137521	-0.00057	0.00012	0.00007
	-0.041387	0.250160	-0.162013	-0.00056	-0.00010	0.00007
	-0.040386	0.244365	-0.161453	-0.00055	-0.00010	0.00008
	0.041409	-0.206073	-0.109634	0.00045	0.00008	-0.00007
	0.042411	-0.211868	-0.109074	0.00046	0.00008	-0.00006
	-0.057312	-0.212064	-0.133567	0.00047	-0.00014	-0.00006
	-0.056311	-0.217860	-0.133007	0.00048	-0.00014	-0.00005
	0.033303	-0.154603	-0.114623	0.00034	0.00006	-0.00013
	0.034304	-0.160398	-0.114063	0.00035	0.00006	-0.00013
	-0.065419	-0.160595	-0.138555	0.00036	-0.00016	-0.00012
	-0.064417	-0.166390	-0.137995	0.00037	-0.00016	-0.00012
503	0.225015	0.216029	-0.075353	-0.00041	0.00064	0.00010
	0.235458	0.208691	-0.075107	-0.00040	0.00066	0.00011
	0.132382	0.207914	-0.086208	-0.00040	0.00043	0.00011
	0.142824	0.200576	-0.085962	-0.00039	0.00046	0.00012
	0.135983	0.280909	-0.074992	-0.00050	0.00044	0.00005
	0.146426	0.273571	-0.074746	-0.00049	0.00046	0.00005

	0.043349	0.272794	-0.085847	-0.00049	0.00023	0.00006
	0.053792	0.265456	-0.085601	-0.00048	0.00026	0.00006
	-0.039099	-0.226755	-0.127338	0.00022	0.00004	-0.00006
	-0.028656	-0.234093	-0.127092	0.00023	0.00007	-0.00006
	-0.131733	-0.234870	-0.138193	0.00024	-0.00016	-0.00005
	-0.121290	-0.242208	-0.137947	0.00025	-0.00014	-0.00004
	-0.128132	-0.161874	-0.126977	0.00013	-0.00016	-0.00012
	-0.117689	-0.169213	-0.126731	0.00014	-0.00013	-0.00011
	-0.220765	-0.169990	-0.137832	0.00015	-0.00036	-0.00010
	-0.210323	-0.177328	-0.137585	0.00016	-0.00034	-0.00010
504	0.225024	0.214315	-0.095656	-0.00047	0.00030	0.00013
	0.235466	0.210022	-0.096037	-0.00046	0.00032	0.00014
	0.132372	0.210124	-0.097146	-0.00045	0.00016	0.00014
	0.142815	0.205831	-0.097527	-0.00045	0.00017	0.00015
	0.135994	0.253091	-0.091943	-0.00051	0.00016	0.00007
	0.146436	0.248798	-0.092324	-0.00051	0.00018	0.00007
	0.043343	0.248900	-0.093433	-0.00050	0.00002	0.00008
	0.053785	0.244607	-0.093814	-0.00049	0.00003	0.00008
	-0.039079	-0.201448	-0.133477	0.00006	-0.00011	-0.00006
	-0.028637	-0.205741	-0.133858	0.00007	-0.00009	-0.00005
	-0.131730	-0.205639	-0.134968	0.00007	-0.00025	-0.00005
	-0.121288	-0.209932	-0.135349	0.00008	-0.00023	-0.00004
	-0.128109	-0.162672	-0.129764	0.00002	-0.00024	-0.00012
	-0.117667	-0.166965	-0.130145	0.00002	-0.00023	-0.00011
	-0.220760	-0.166863	-0.131255	0.00003	-0.00039	-0.00011
	-0.210318	-0.171156	-0.131636	0.00004	-0.00037	-0.00011
505	0.225038	0.221625	-0.099418	-0.00070	0.00023	0.00010
	0.235480	0.221165	-0.100471	-0.00070	0.00024	0.00011
	0.132365	0.222681	-0.091428	-0.00070	0.00008	0.00011
	0.142806	0.222221	-0.092481	-0.00070	0.00010	0.00012
	0.136012	0.227521	-0.092354	-0.00072	0.00009	0.00005
	0.146453	0.227061	-0.093407	-0.00072	0.00011	0.00005
	0.043338	0.228577	-0.084364	-0.00072	-0.00005	0.00006
	0.053780	0.228117	-0.085416	-0.00072	-0.00004	0.00006
	-0.039052	-0.179282	-0.134927	0.00026	-0.00017	-0.00007
	-0.028611	-0.179741	-0.135980	0.00026	-0.00016	-0.00006
	-0.131725	-0.178226	-0.126937	0.00026	-0.00032	-0.00006
	-0.121284	-0.178685	-0.127990	0.00026	-0.00030	-0.00005
	-0.128079	-0.173386	-0.127863	0.00025	-0.00031	-0.00012
	-0.117637	-0.173845	-0.128916	0.00025	-0.00029	-0.00012
	-0.220752	-0.172330	-0.119873	0.00025	-0.00045	-0.00011
	-0.210311	-0.172789	-0.120925	0.00025	-0.00044	-0.00011
506	0.164993	0.216049	-0.091585	-0.00046	0.00038	0.00012
	0.171839	0.208710	-0.091725	-0.00044	0.00039	0.00013
	0.068322	0.207925	-0.101700	-0.00044	0.00026	0.00013
	0.075168	0.200586	-0.101839	-0.00043	0.00027	0.00014
	0.106791	0.280932	-0.089069	-0.00056	0.00032	0.00006
	0.113637	0.273594	-0.089209	-0.00055	0.00032	0.00007
	0.010120	0.272808	-0.099184	-0.00054	0.00019	0.00007
	0.016966	0.265470	-0.099324	-0.00053	0.00020	0.00007
	-0.007617	-0.226746	-0.135745	0.00027	0.00018	-0.00006
	-0.000771	-0.234084	-0.135884	0.00028	0.00019	-0.00006
	-0.104288	-0.234870	-0.145859	0.00029	0.00006	-0.00006
	-0.097442	-0.242208	-0.145999	0.00030	0.00007	-0.00005
	-0.065819	-0.161862	-0.133229	0.00016	0.00012	-0.00013
	-0.058973	-0.169201	-0.133369	0.00018	0.00012	-0.00012
	-0.162490	-0.169986	-0.143344	0.00018	-0.00001	-0.00012
	-0.155644	-0.177325	-0.143483	0.00019	0.00000	-0.00011
507	0.164997	0.214311	-0.124309	-0.00022	0.00017	0.00013
	0.171843	0.210018	-0.124568	-0.00022	0.00018	0.00014
	0.068319	0.210122	-0.124628	-0.00022	0.00004	0.00014
	0.075165	0.205829	-0.124886	-0.00021	0.00004	0.00015
	0.106798	0.253091	-0.121930	-0.00024	0.00009	0.00007
	0.113644	0.248797	-0.122189	-0.00023	0.00010	0.00008
	0.010121	0.248901	-0.122248	-0.00023	-0.00004	0.00008
	0.016966	0.244608	-0.122507	-0.00023	-0.00004	0.00009
	-0.007600	-0.201451	-0.144352	-0.00002	-0.00007	-0.00006
	-0.000754	-0.205744	-0.144610	-0.00002	-0.00006	-0.00005
	-0.104278	-0.205640	-0.144670	-0.00002	-0.00020	-0.00004
	-0.097432	-0.209933	-0.144929	-0.00002	-0.00020	-0.00004
	-0.065799	-0.162672	-0.141972	-0.00004	-0.00015	-0.00012
	-0.058953	-0.166965	-0.142231	-0.00004	-0.00014	-0.00011
	-0.162477	-0.166861	-0.142291	-0.00004	-0.00028	-0.00011
	-0.155631	-0.171154	-0.142550	-0.00003	-0.00028	-0.00010
508	0.165002	0.221617	-0.131225	-0.00038	0.00017	0.00012
	0.171847	0.221158	-0.131816	-0.00038	0.00018	0.00013
	0.068314	0.222683	-0.124888	-0.00038	0.00004	0.00013
	0.075159	0.222224	-0.125479	-0.00038	0.00005	0.00013
	0.106807	0.227514	-0.127041	-0.00039	0.00009	0.00006
	0.113652	0.227055	-0.127632	-0.00039	0.00010	0.00006
	0.010119	0.228579	-0.120704	-0.00039	-0.00003	0.00006
	0.016964	0.228120	-0.121295	-0.00039	-0.00002	0.00007
	-0.007580	-0.179300	-0.151613	0.00028	-0.00006	-0.00007

	-0.000735	-0.179759	-0.152204	0.00028	-0.00005	-0.00006
	-0.104268	-0.178235	-0.145276	0.00027	-0.00018	-0.00006
	-0.097423	-0.178694	-0.145867	0.00027	-0.00018	-0.00005
	-0.065776	-0.173404	-0.147429	0.00027	-0.00013	-0.00013
	-0.058930	-0.173863	-0.148020	0.00027	-0.00012	-0.00012
	-0.162464	-0.172338	-0.141092	0.00026	-0.00026	-0.00012
	-0.155618	-0.172797	-0.141683	0.00026	-0.00025	-0.00011
509	0.102345	0.238405	-0.168171	-0.00069	0.00035	0.00013
	0.105434	0.224186	-0.169239	-0.00065	0.00035	0.00013
	0.001377	0.221400	-0.187932	-0.00064	0.00015	0.00014
	0.004466	0.207181	-0.189000	-0.00061	0.00015	0.00015
	0.076328	0.362248	-0.156954	-0.00099	0.00030	0.00006
	0.079417	0.348029	-0.158021	-0.00096	0.00030	0.00007
	-0.024640	0.345243	-0.176715	-0.00095	0.00009	0.00008
	-0.021551	0.331024	-0.177783	-0.00091	0.00010	0.00009
	0.025243	-0.302617	-0.233030	0.00062	0.00019	-0.00006
	0.028332	-0.316836	-0.234098	0.00065	0.00020	-0.00006
	-0.075725	-0.319622	-0.252791	0.00066	-0.00001	-0.00005
	-0.072636	-0.333841	-0.253859	0.00070	0.00000	-0.00004
	-0.000774	-0.178775	-0.221813	0.00031	0.00014	-0.00013
	0.002315	-0.192994	-0.222880	0.00035	0.00015	-0.00012
	-0.101742	-0.195779	-0.241574	0.00036	-0.00006	-0.00011
	-0.098653	-0.209998	-0.242641	0.00039	-0.00006	-0.00011
510	0.102363	0.223827	-0.150689	-0.00061	0.00003	0.00013
	0.105451	0.213285	-0.151222	-0.00059	0.00004	0.00013
	0.001407	0.211555	-0.167464	-0.00058	-0.00008	0.00014
	0.004496	0.201012	-0.167997	-0.00056	-0.00008	0.00014
	0.076355	0.316167	-0.144953	-0.00081	0.00001	0.00006
	0.079444	0.305625	-0.145486	-0.00079	0.00001	0.00007
	-0.024601	0.303895	-0.161728	-0.00078	-0.00011	0.00007
	-0.021512	0.293353	-0.162261	-0.00076	-0.00010	0.00008
	0.025283	-0.259343	-0.193160	0.00045	-0.00004	-0.00008
	0.028371	-0.269886	-0.193693	0.00047	-0.00004	-0.00007
	-0.075673	-0.271616	-0.209936	0.00048	-0.00016	-0.00007
	-0.072584	-0.282158	-0.210469	0.00050	-0.00016	-0.00006
	-0.000725	-0.167003	-0.187425	0.00024	-0.00007	-0.00015
	0.002364	-0.177545	-0.187958	0.00026	-0.00007	-0.00014
	-0.101681	-0.179275	-0.204200	0.00027	-0.00018	-0.00014
	-0.098592	-0.189817	-0.204733	0.00029	-0.00018	-0.00013
511	0.102390	0.216059	-0.121758	-0.00031	0.00020	0.00014
	0.105478	0.208720	-0.122035	-0.00029	0.00020	0.00015
	0.001424	0.207934	-0.135574	-0.00035	0.00002	0.00015
	0.004512	0.200595	-0.135851	-0.00033	0.00003	0.00016
	0.076389	0.280944	-0.118844	-0.00044	0.00016	0.00007
	0.079477	0.273605	-0.119121	-0.00042	0.00016	0.00008
	-0.024577	0.272820	-0.132660	-0.00048	-0.00002	0.00009
	-0.021489	0.265481	-0.132937	-0.00047	-0.00001	0.00009
	0.025329	-0.226758	-0.154275	0.00054	0.00007	-0.00006
	0.028417	-0.234097	-0.154552	0.00056	0.00008	-0.00005
	-0.075637	-0.234883	-0.168091	0.00050	-0.00010	-0.00005
	-0.072550	-0.242222	-0.168368	0.00052	-0.00009	-0.00004
	-0.000672	-0.161873	-0.151361	0.00041	0.00003	-0.00013
	0.002416	-0.169212	-0.151638	0.00042	0.00004	-0.00012
	-0.101638	-0.169997	-0.165177	0.00037	-0.00014	-0.00011
	-0.098550	-0.177336	-0.165454	0.00038	-0.00013	-0.00010
512	0.102409	0.214270	-0.087481	0.00004	-0.00034	-0.00016
	0.105496	0.209978	-0.088136	0.00004	-0.00034	-0.00015
	0.001449	0.210101	-0.092421	0.00004	-0.00031	-0.00015
	0.004537	0.205808	-0.093076	0.00004	-0.00031	-0.00014
	0.076408	0.253047	-0.081521	-0.00002	-0.00035	-0.00024
	0.079495	0.248755	-0.082175	-0.00001	-0.00034	-0.00023
	-0.024552	0.248877	-0.086461	-0.00001	-0.00031	-0.00022
	-0.021464	0.244585	-0.087115	-0.00001	-0.00031	-0.00021
	0.025350	-0.201478	-0.162818	0.00058	-0.00020	0.00007
	0.028437	-0.205771	-0.163473	0.00059	-0.00020	0.00007
	-0.075610	-0.205648	-0.167758	0.00059	-0.00017	0.00008
	-0.072522	-0.209940	-0.168413	0.00059	-0.00017	0.00009
	-0.000651	-0.162702	-0.156858	0.00053	-0.00020	-0.00001
	0.002436	-0.166994	-0.157513	0.00054	-0.00020	0.00000
	-0.101611	-0.166871	-0.161798	0.00053	-0.00017	0.00001
	-0.098523	-0.171163	-0.162453	0.00054	-0.00017	0.00001
513	0.102412	0.215456	-0.113632	-0.00047	0.00006	0.00011
	0.105500	0.212389	-0.115161	-0.00046	0.00006	0.00012
	0.001446	0.212828	-0.083289	-0.00042	-0.00010	0.00013
	0.004534	0.209762	-0.084818	-0.00041	-0.00009	0.00014
	0.076411	0.243729	-0.100138	-0.00052	0.00000	0.00004
	0.079498	0.240663	-0.101667	-0.00051	0.00001	0.00005
	-0.024556	0.241101	-0.069795	-0.00047	-0.00015	0.00006
	-0.021468	0.238035	-0.071324	-0.00047	-0.00014	0.00007
	0.025353	-0.193093	-0.187993	0.00028	0.00023	-0.00010
	0.028441	-0.196160	-0.189522	0.00029	0.00024	-0.00009
	-0.075614	-0.195721	-0.157650	0.00033	0.00008	-0.00008
	-0.072526	-0.198788	-0.159179	0.00034	0.00008	-0.00007

	-0.000649	-0.164820	-0.174499	0.00023	0.00018	-0.00017
	0.002439	-0.167887	-0.176028	0.00024	0.00018	-0.00016
	-0.101615	-0.167448	-0.144156	0.00028	0.00003	-0.00015
	-0.098528	-0.170515	-0.145684	0.00028	0.00003	-0.00014
514	0.102402	0.221609	-0.177756	-0.00023	0.00029	0.00014
	0.105490	0.221151	-0.178034	-0.00023	0.00029	0.00014
	0.001431	0.222690	-0.170502	-0.00023	0.00012	0.00015
	0.004519	0.222233	-0.170779	-0.00022	0.00012	0.00015
	0.076400	0.227504	-0.175284	-0.00024	0.00025	0.00007
	0.079488	0.227046	-0.175562	-0.00024	0.00025	0.00008
	-0.024570	0.228585	-0.168029	-0.00023	0.00008	0.00008
	-0.021482	0.228127	-0.168307	-0.00023	0.00008	0.00009
	0.025346	-0.179338	-0.192317	0.00024	0.00016	-0.00007
	0.028433	-0.179796	-0.192594	0.00024	0.00016	-0.00006
	-0.075625	-0.178257	-0.185062	0.00025	-0.00001	-0.00006
	-0.072537	-0.178714	-0.185340	0.00025	-0.00001	-0.00005
	-0.000656	-0.173444	-0.189844	0.00023	0.00012	-0.00014
	0.002432	-0.173901	-0.190122	0.00023	0.00012	-0.00013
	-0.101627	-0.172362	-0.182589	0.00024	-0.00005	-0.00013
	-0.098539	-0.172820	-0.182867	0.00024	-0.00005	-0.00012
515	0.102390	0.239886	-0.193681	-0.00046	0.00019	0.00013
	0.105478	0.243104	-0.193802	-0.00046	0.00020	0.00014
	0.001424	0.245460	-0.187104	-0.00048	-0.00002	0.00014
	0.004512	0.248678	-0.187225	-0.00048	-0.00001	0.00015
	0.076390	0.214262	-0.193051	-0.00041	0.00014	0.00006
	0.079478	0.217481	-0.193172	-0.00042	0.00014	0.00007
	-0.024576	0.219837	-0.186474	-0.00043	-0.00007	0.00007
	-0.021489	0.223055	-0.186595	-0.00044	-0.00006	0.00008
	0.025337	-0.168804	-0.213225	0.00022	0.00003	-0.00007
	0.028425	-0.165586	-0.213346	0.00021	0.00003	-0.00006
	-0.075629	-0.163230	-0.206648	0.00020	-0.00018	-0.00006
	-0.072541	-0.160012	-0.206769	0.00019	-0.00017	-0.00005
	-0.000663	-0.194427	-0.212595	0.00027	-0.00003	-0.00014
	0.002425	-0.191209	-0.212716	0.00026	-0.00002	-0.00013
	-0.101629	-0.188853	-0.206018	0.00025	-0.00023	-0.00013
	-0.098541	-0.185635	-0.206139	0.00024	-0.00023	-0.00012
516	0.102380	0.266150	-0.195877	-0.00048	0.00019	0.00013
	0.105468	0.272807	-0.195679	-0.00049	0.00020	0.00014
	0.001418	0.276108	-0.192082	-0.00051	-0.00001	0.00014
	0.004506	0.282764	-0.191884	-0.00052	0.00000	0.00015
	0.076381	0.211044	-0.198271	-0.00039	0.00014	0.00006
	0.079469	0.217700	-0.198073	-0.00040	0.00014	0.00007
	-0.024581	0.221001	-0.194476	-0.00041	-0.00006	0.00007
	-0.021493	0.227658	-0.194278	-0.00042	-0.00005	0.00008
	0.025330	-0.168277	-0.222780	0.00022	0.00003	-0.00007
	0.028418	-0.161621	-0.222582	0.00021	0.00004	-0.00006
	-0.075632	-0.158320	-0.218985	0.00020	-0.00016	-0.00006
	-0.072544	-0.151663	-0.218787	0.00019	-0.00016	-0.00005
	-0.000669	-0.223384	-0.225174	0.00031	-0.00002	-0.00014
	0.002419	-0.216727	-0.224976	0.00030	-0.00001	-0.00013
	-0.101631	-0.213426	-0.221379	0.00029	-0.00022	-0.00013
	-0.098543	-0.206770	-0.221181	0.00028	-0.00021	-0.00012
517	0.102375	0.297339	-0.191865	-0.00051	0.00022	0.00013
	0.105462	0.307199	-0.191258	-0.00053	0.00022	0.00014
	0.001414	0.311403	-0.189476	-0.00054	0.00002	0.00014
	0.004502	0.321262	-0.188868	-0.00056	0.00002	0.00015
	0.076377	0.214787	-0.198023	-0.00038	0.00016	0.00007
	0.079465	0.224647	-0.197415	-0.00039	0.00017	0.00007
	-0.024584	0.228850	-0.195633	-0.00040	-0.00003	0.00008
	-0.021496	0.238710	-0.195026	-0.00042	-0.00003	0.00008
	0.025327	-0.174570	-0.228574	0.00025	0.00006	-0.00007
	0.028415	-0.164711	-0.227967	0.00024	0.00006	-0.00006
	-0.075634	-0.160507	-0.226185	0.00023	-0.00014	-0.00006
	-0.072546	-0.150648	-0.225578	0.00021	-0.00013	-0.00005
	-0.000671	-0.257123	-0.234732	0.00039	0.00001	-0.00014
	0.002417	-0.247263	-0.234125	0.00038	0.00001	-0.00013
	-0.101632	-0.243060	-0.232343	0.00036	-0.00019	-0.00013
	-0.098544	-0.233200	-0.231735	0.00035	-0.00019	-0.00012
518	0.102372	0.336482	-0.181336	-0.00057	0.00021	0.00013
	0.105459	0.349779	-0.180051	-0.00059	0.00022	0.00014
	0.001410	0.354934	-0.178196	-0.00061	0.00001	0.00015
	0.004498	0.368230	-0.176911	-0.00063	0.00002	0.00015
	0.076375	0.224449	-0.193691	-0.00038	0.00016	0.00007
	0.079462	0.237746	-0.192406	-0.00040	0.00016	0.00007
	-0.024587	0.242901	-0.190551	-0.00042	-0.00004	0.00008
	-0.021499	0.256198	-0.189266	-0.00044	-0.00004	0.00008
	0.025326	-0.186919	-0.237177	0.00029	0.00005	-0.00007
	0.028414	-0.173622	-0.235892	0.00027	0.00006	-0.00006
	-0.075636	-0.168467	-0.234036	0.00025	-0.00015	-0.00006
	-0.072548	-0.155170	-0.232751	0.00023	-0.00014	-0.00005
	-0.000671	-0.298952	-0.249532	0.00048	0.00000	-0.00014
	0.002416	-0.285655	-0.248247	0.00046	0.00000	-0.00013
	-0.101633	-0.280500	-0.246391	0.00044	-0.00020	-0.00013

	-0.098545	-0.267203	-0.245106	0.00042	-0.00020	-0.00012
519	0.102370	0.379931	-0.160405	-0.00074	0.00012	0.00012
	0.105457	0.396661	-0.158015	-0.00077	0.00013	0.00013
	0.001404	0.402742	-0.151760	-0.00080	-0.00007	0.00014
	0.004492	0.419472	-0.149369	-0.00083	-0.00006	0.00014
	0.076375	0.238437	-0.182807	-0.00050	0.00008	0.00006
	0.079462	0.255167	-0.180417	-0.00053	0.00008	0.00007
	-0.024591	0.261248	-0.174161	-0.00056	-0.00012	0.00007
	-0.021504	0.277978	-0.171771	-0.00059	-0.00011	0.00008
	0.025329	-0.203521	-0.251163	0.00024	-0.00003	-0.00008
	0.028417	-0.186791	-0.248773	0.00021	-0.00002	-0.00007
	-0.075636	-0.180710	-0.242518	0.00018	-0.00022	-0.00007
	-0.072549	-0.163980	-0.240127	0.00015	-0.00022	-0.00006
	-0.000666	-0.345015	-0.273565	0.00048	-0.00008	-0.00014
	0.002421	-0.328285	-0.271175	0.00046	-0.00007	-0.00014
	-0.101631	-0.322203	-0.264920	0.00042	-0.00027	-0.00013
	-0.098544	-0.305473	-0.262529	0.00039	-0.00026	-0.00013
520	0.102365	0.415587	-0.135982	-0.00110	0.00010	0.00012
	0.105453	0.434965	-0.132510	-0.00115	0.00011	0.00013
	0.001408	0.441735	-0.115794	-0.00117	-0.00007	0.00013
	0.004496	0.461114	-0.112323	-0.00122	-0.00006	0.00014
	0.076367	0.251406	-0.168137	-0.00070	0.00007	0.00006
	0.079455	0.270784	-0.164665	-0.00075	0.00007	0.00007
	-0.024589	0.277555	-0.147949	-0.00077	-0.00010	0.00007
	-0.021501	0.296933	-0.144477	-0.00082	-0.00010	0.00008
	0.025318	-0.218531	-0.262807	0.00044	-0.00001	-0.00006
	0.028405	-0.199152	-0.259335	0.00039	0.00000	-0.00005
	-0.075639	-0.192382	-0.242619	0.00037	-0.00018	-0.00005
	-0.072551	-0.173004	-0.239147	0.00032	-0.00018	-0.00004
	-0.000680	-0.382711	-0.294962	0.00084	-0.00004	-0.00012
	0.002408	-0.363333	-0.291490	0.00079	-0.00004	-0.00011
	-0.101636	-0.356563	-0.274774	0.00077	-0.00022	-0.00011
	-0.098548	-0.337184	-0.271302	0.00072	-0.00021	-0.00010
521	0.080622	0.214542	-0.088105	-0.00050	0.00019	0.00013
	0.082400	0.208512	-0.088588	-0.00049	0.00020	0.00013
	-0.021846	0.208088	-0.114164	-0.00049	-0.00004	0.00014
	-0.020069	0.202059	-0.114647	-0.00047	-0.00004	0.00015
	0.065842	0.268208	-0.083312	-0.00063	0.00016	0.00006
	0.067620	0.262178	-0.083795	-0.00062	0.00016	0.00007
	-0.036627	0.261754	-0.109370	-0.00062	-0.00008	0.00007
	-0.034849	0.255725	-0.109854	-0.00060	-0.00008	0.00008
	0.036821	-0.215171	-0.151159	0.00049	0.00008	-0.00007
	0.038599	-0.221201	-0.151642	0.00050	0.00008	-0.00006
	-0.065647	-0.221624	-0.177218	0.00051	-0.00016	-0.00006
	-0.063870	-0.227654	-0.177701	0.00052	-0.00015	-0.00005
	0.022041	-0.161505	-0.146366	0.00036	0.00004	-0.00014
	0.023819	-0.167534	-0.146849	0.00038	0.00005	-0.00013
	-0.080428	-0.167958	-0.172425	0.00038	-0.00020	-0.00013
	-0.078650	-0.173988	-0.172908	0.00039	-0.00019	-0.00012
522	0.080626	0.214073	-0.100019	-0.00049	0.00012	0.00013
	0.082404	0.208876	-0.100710	-0.00048	0.00012	0.00014
	-0.021843	0.208774	-0.102288	-0.00048	-0.00010	0.00014
	-0.020065	0.203577	-0.102980	-0.00047	-0.00010	0.00015
	0.065846	0.260606	-0.093344	-0.00061	0.00011	0.00006
	0.067624	0.255409	-0.094036	-0.00059	0.00011	0.00007
	-0.036623	0.255307	-0.095613	-0.00060	-0.00011	0.00007
	-0.034845	0.250110	-0.096305	-0.00058	-0.00011	0.00008
	0.036825	-0.208369	-0.164251	0.00047	0.00010	-0.00007
	0.038603	-0.213566	-0.164942	0.00048	0.00010	-0.00006
	-0.065643	-0.213668	-0.166520	0.00048	-0.00013	-0.00006
	-0.063865	-0.218865	-0.167212	0.00049	-0.00012	-0.00005
	0.022045	-0.161837	-0.157576	0.00035	0.00009	-0.00014
	0.023823	-0.167034	-0.158268	0.00036	0.00009	-0.00013
	-0.080423	-0.167136	-0.159845	0.00036	-0.00013	-0.00013
	-0.078645	-0.172333	-0.160537	0.00037	-0.00013	-0.00012
523	0.080631	0.214256	-0.111243	-0.00047	0.00023	0.00014
	0.082409	0.209889	-0.112154	-0.00046	0.00023	0.00015
	-0.021839	0.209995	-0.089753	-0.00046	-0.00001	0.00015
	-0.020061	0.205627	-0.090663	-0.00045	0.00000	0.00016
	0.065849	0.253679	-0.102582	-0.00055	0.00018	0.00007
	0.067627	0.249311	-0.103492	-0.00054	0.00019	0.00008
	-0.036622	0.249418	-0.081091	-0.00054	-0.00005	0.00008
	-0.034844	0.245050	-0.082002	-0.00053	-0.00005	0.00009
	0.036823	-0.202035	-0.178547	0.00043	0.00008	-0.00007
	0.038601	-0.206403	-0.179458	0.00043	0.00009	-0.00006
	-0.065647	-0.206296	-0.157056	0.00044	-0.00015	-0.00006
	-0.063869	-0.210664	-0.157967	0.00045	-0.00014	-0.00005
	0.022041	-0.162612	-0.169886	0.00035	0.00004	-0.00014
	0.023819	-0.166980	-0.170796	0.00035	0.00004	-0.00013
	-0.080430	-0.166874	-0.148395	0.00036	-0.00019	-0.00013
	-0.078652	-0.171241	-0.149305	0.00037	-0.00019	-0.00012
524	0.068457	0.214364	-0.132960	-0.00045	0.00015	0.00014

	0.069505	0.208338	-0.132407	-0.00043	0.00015	0.00014
	-0.034858	0.208002	-0.157106	-0.00042	-0.00008	0.00014
	-0.033811	0.201976	-0.156553	-0.00041	-0.00007	0.00015
	0.059937	0.268006	-0.137884	-0.00055	0.00013	0.00007
	0.060984	0.261979	-0.137330	-0.00054	0.00013	0.00008
	-0.043378	0.261644	-0.162029	-0.00052	-0.00010	0.00008
	-0.042331	0.255617	-0.161476	-0.00051	-0.00010	0.00009
	0.043159	-0.215198	-0.109895	0.00044	0.00008	-0.00006
	0.044207	-0.221225	-0.109341	0.00045	0.00008	-0.00005
	-0.060156	-0.221560	-0.134040	0.00047	-0.00015	-0.00006
	-0.059109	-0.227587	-0.133487	0.00048	-0.00014	-0.00005
	0.034639	-0.161557	-0.114818	0.00034	0.00006	-0.00013
	0.035687	-0.167583	-0.114265	0.00035	0.00006	-0.00012
	-0.068676	-0.167919	-0.138963	0.00037	-0.00017	-0.00012
	-0.067629	-0.173945	-0.138410	0.00038	-0.00017	-0.00011
525	0.068339	0.214604	-0.152972	-0.00045	0.00008	0.00013
	0.069387	0.210233	-0.152890	-0.00044	0.00009	0.00013
	-0.034906	0.210199	-0.130871	-0.00043	-0.00013	0.00014
	-0.033858	0.205829	-0.130789	-0.00042	-0.00012	0.00015
	0.059814	0.254061	-0.153665	-0.00056	0.00004	0.00006
	0.060862	0.249690	-0.153583	-0.00055	0.00005	0.00007
	-0.043432	0.249656	-0.131564	-0.00054	-0.00017	0.00007
	-0.042384	0.245286	-0.131482	-0.00053	-0.00016	0.00008
	0.043029	-0.201798	-0.137587	0.00045	0.00023	-0.00007
	0.044077	-0.206169	-0.137505	0.00046	0.00023	-0.00006
	-0.060217	-0.206202	-0.115486	0.00047	0.00002	-0.00006
	-0.059169	-0.210573	-0.115404	0.00048	0.00002	-0.00005
	0.034503	-0.162341	-0.138279	0.00034	0.00018	-0.00013
	0.035551	-0.166711	-0.138197	0.00035	0.00019	-0.00012
	-0.068742	-0.166745	-0.116178	0.00036	-0.00003	-0.00012
	-0.067694	-0.171116	-0.116096	0.00037	-0.00002	-0.00011
526	0.063888	0.216450	-0.136215	-0.00025	0.00010	0.00015
	0.064675	0.209120	-0.134924	-0.00025	0.00010	0.00016
	-0.039597	0.208051	-0.194138	-0.00016	-0.00008	0.00015
	-0.038810	0.200721	-0.192847	-0.00016	-0.00008	0.00016
	0.057599	0.281266	-0.147936	-0.00026	0.00008	0.00008
	0.058386	0.273937	-0.146645	-0.00026	0.00008	0.00009
	-0.045886	0.272867	-0.205859	-0.00016	-0.00010	0.00007
	-0.045099	0.265538	-0.204568	-0.00016	-0.00010	0.00008
	0.045151	-0.225975	-0.077457	-0.00007	0.00004	-0.00007
	0.045938	-0.233305	-0.076166	-0.00007	0.00004	-0.00007
	-0.058334	-0.234374	-0.135380	0.00003	-0.00014	-0.00008
	-0.057547	-0.241704	-0.134089	0.00003	-0.00014	-0.00007
	0.038862	-0.161158	-0.089178	-0.00008	0.00002	-0.00015
	0.039649	-0.168488	-0.087887	-0.00007	0.00002	-0.00014
	-0.064623	-0.169557	-0.147101	0.00002	-0.00016	-0.00016
	-0.063836	-0.176887	-0.145810	0.00002	-0.00016	-0.00015
527	0.063934	0.214358	-0.147990	-0.00049	0.00008	0.00014
	0.064721	0.208331	-0.147069	-0.00047	0.00008	0.00014
	-0.039565	0.208002	-0.171549	-0.00048	-0.00015	0.00014
	-0.038778	0.201976	-0.170628	-0.00047	-0.00015	0.00015
	0.057641	0.268002	-0.156392	-0.00059	0.00006	0.00007
	0.058428	0.261975	-0.155471	-0.00058	0.00006	0.00008
	-0.045858	0.261646	-0.179951	-0.00059	-0.00017	0.00008
	-0.045071	0.255620	-0.179030	-0.00057	-0.00017	0.00008
	0.045183	-0.215214	-0.095588	0.00047	0.00014	-0.00007
	0.045970	-0.221241	-0.094667	0.00048	0.00014	-0.00006
	-0.058316	-0.221570	-0.119147	0.00048	-0.00009	-0.00006
	-0.057529	-0.227596	-0.118226	0.00049	-0.00008	-0.00005
	0.038889	-0.161571	-0.103991	0.00036	0.00012	-0.00014
	0.039676	-0.167597	-0.103070	0.00037	0.00012	-0.00013
	-0.064610	-0.167926	-0.127550	0.00037	-0.00011	-0.00013
	-0.063823	-0.173952	-0.126629	0.00038	-0.00010	-0.00012
528	0.049283	0.214358	-0.175486	-0.00049	0.00011	0.00013
	0.049600	0.208332	-0.173900	-0.00048	0.00011	0.00013
	-0.054886	0.208003	-0.197945	-0.00045	-0.00011	0.00014
	-0.054569	0.201976	-0.196358	-0.00044	-0.00011	0.00015
	0.047021	0.267999	-0.190119	-0.00059	0.00010	0.00006
	0.047338	0.261973	-0.188532	-0.00058	0.00010	0.00007
	-0.057148	0.261644	-0.212577	-0.00055	-0.00011	0.00007
	-0.056831	0.255617	-0.210991	-0.00054	-0.00011	0.00008
	0.056541	-0.215202	-0.069468	0.00029	0.00005	-0.00007
	0.056859	-0.221228	-0.067881	0.00030	0.00005	-0.00007
	-0.047627	-0.221558	-0.091926	0.00033	-0.00017	-0.00006
	-0.047310	-0.227584	-0.090339	0.00034	-0.00016	-0.00005
	0.054279	-0.161561	-0.084100	0.00019	0.00004	-0.00014
	0.054597	-0.167587	-0.082514	0.00020	0.00004	-0.00013
	-0.049889	-0.167917	-0.106559	0.00023	-0.00017	-0.00013
	-0.049572	-0.173943	-0.104972	0.00024	-0.00017	-0.00012
529	0.049284	0.214054	-0.184721	-0.00049	0.00014	0.00013
	0.049601	0.208857	-0.183405	-0.00048	0.00014	0.00014
	-0.054879	0.208753	-0.183572	-0.00049	-0.00013	0.00014
	-0.054562	0.203556	-0.182255	-0.00047	-0.00012	0.00015

	0.047026	0.260585	-0.196937	-0.00059	0.00012	0.00006
	0.047343	0.255388	-0.195620	-0.00058	0.00012	0.00007
	-0.057137	0.255284	-0.195787	-0.00059	-0.00015	0.00007
	-0.056820	0.250087	-0.194471	-0.00057	-0.00014	0.00008
	0.056526	-0.208395	-0.083842	0.00037	0.00007	-0.00007
	0.056843	-0.213591	-0.082526	0.00038	0.00007	-0.00006
	-0.047637	-0.213696	-0.082693	0.00038	-0.00020	-0.00006
	-0.047320	-0.218892	-0.081376	0.00039	-0.00020	-0.00005
	0.054269	-0.161864	-0.096058	0.00027	0.00004	-0.00014
	0.054585	-0.167061	-0.094741	0.00028	0.00005	-0.00013
	-0.049895	-0.167165	-0.094908	0.00028	-0.00022	-0.00013
	-0.049578	-0.172362	-0.093592	0.00029	-0.00022	-0.00012
530	0.049283	0.214254	-0.195120	-0.00045	0.00009	0.00013
	0.049600	0.209886	-0.194074	-0.00044	0.00009	0.00014
	-0.054877	0.209995	-0.171657	-0.00047	-0.00008	0.00014
	-0.054560	0.205627	-0.170611	-0.00046	-0.00008	0.00015
	0.047027	0.253673	-0.204887	-0.00053	0.00006	0.00006
	0.047343	0.249306	-0.203841	-0.00052	0.00006	0.00007
	-0.057133	0.249414	-0.181424	-0.00055	-0.00011	0.00008
	-0.056817	0.245047	-0.180378	-0.00054	-0.00010	0.00008
	0.056518	-0.202034	-0.099180	0.00034	0.00021	-0.00007
	0.056835	-0.206401	-0.098134	0.00035	0.00022	-0.00006
	-0.047642	-0.206293	-0.075717	0.00032	0.00005	-0.00006
	-0.047325	-0.210661	-0.074671	0.00033	0.00005	-0.00005
	0.054262	-0.162614	-0.108947	0.00026	0.00018	-0.00014
	0.054578	-0.166982	-0.107901	0.00027	0.00019	-0.00013
	-0.049898	-0.166874	-0.085484	0.00024	0.00002	-0.00013
	-0.049582	-0.171241	-0.084438	0.00025	0.00002	-0.00012
531	0.049140	0.215595	-0.215257	-0.00016	0.00011	0.00013
	0.049459	0.212536	-0.214862	-0.00015	0.00011	0.00014
	-0.054970	0.212663	-0.166156	-0.00032	-0.00001	0.00015
	-0.054651	0.209604	-0.165762	-0.00031	-0.00001	0.00016
	0.046848	0.243814	-0.218905	-0.00021	0.00006	0.00006
	0.047167	0.240755	-0.218510	-0.00021	0.00006	0.00007
	-0.057262	0.240882	-0.169804	-0.00038	-0.00006	0.00008
	-0.056943	0.237823	-0.169410	-0.00037	-0.00006	0.00009
	0.056414	-0.193551	-0.139847	0.00020	0.00031	-0.00007
	0.056733	-0.196610	-0.139453	0.00021	0.00032	-0.00006
	-0.047696	-0.196483	-0.090747	0.00004	0.00019	-0.00006
	-0.047377	-0.199542	-0.090352	0.00005	0.00020	-0.00005
	0.054122	-0.165332	-0.143495	0.00014	0.00027	-0.00014
	0.054441	-0.168390	-0.143101	0.00015	0.00027	-0.00013
	-0.049988	-0.168264	-0.094395	-0.00002	0.00015	-0.00013
	-0.049669	-0.171322	-0.094000	-0.00001	0.00015	-0.00012
532	0.048906	0.238419	-0.217309	-0.00048	0.00034	0.00012
	0.048831	0.224199	-0.217342	-0.00045	0.00034	0.00012
	-0.055644	0.221412	-0.230703	-0.00044	0.00017	0.00013
	-0.055719	0.207192	-0.230736	-0.00041	0.00017	0.00014
	0.049998	0.362268	-0.216902	-0.00074	0.00035	0.00005
	0.049923	0.348049	-0.216935	-0.00071	0.00035	0.00006
	-0.054552	0.345262	-0.230296	-0.00070	0.00018	0.00006
	-0.054627	0.331042	-0.230329	-0.00067	0.00018	0.00007
	0.053555	-0.302611	-0.222358	0.00063	0.00032	-0.00008
	0.053481	-0.316830	-0.222391	0.00065	0.00032	-0.00008
	-0.050995	-0.319617	-0.235752	0.00067	0.00014	-0.00007
	-0.051070	-0.333837	-0.235785	0.00069	0.00014	-0.00007
	0.054647	-0.178761	-0.221951	0.00037	0.00032	-0.00015
	0.054572	-0.192981	-0.221983	0.00040	0.00032	-0.00014
	-0.049903	-0.195767	-0.235345	0.00041	0.00015	-0.00014
	-0.049978	-0.209987	-0.235377	0.00044	0.00015	-0.00013
533	0.048875	0.223744	-0.228652	-0.00035	-0.00006	0.00013
	0.048800	0.213203	-0.228293	-0.00033	-0.00006	0.00014
	-0.055659	0.211486	-0.239438	-0.00032	-0.00016	0.00014
	-0.055734	0.200945	-0.239079	-0.00030	-0.00016	0.00015
	0.049972	0.316083	-0.232003	-0.00052	-0.00005	0.00007
	0.049896	0.305542	-0.231645	-0.00050	-0.00005	0.00007
	-0.054563	0.303825	-0.242789	-0.00049	-0.00015	0.00008
	-0.054638	0.293283	-0.242431	-0.00047	-0.00015	0.00008
	0.053551	-0.259418	-0.213234	0.00055	-0.00009	-0.00007
	0.053476	-0.269959	-0.212875	0.00057	-0.00009	-0.00006
	-0.050983	-0.271676	-0.224020	0.00058	-0.00019	-0.00006
	-0.051058	-0.282217	-0.223661	0.00059	-0.00019	-0.00005
	0.054648	-0.167079	-0.216585	0.00037	-0.00009	-0.00014
	0.054572	-0.177620	-0.216227	0.00039	-0.00009	-0.00013
	-0.049887	-0.179337	-0.227371	0.00040	-0.00018	-0.00013
	-0.049962	-0.189879	-0.227013	0.00042	-0.00018	-0.00012
534	0.049012	0.215861	-0.185022	-0.00054	0.00010	0.00012
	0.048937	0.208524	-0.183495	-0.00053	0.00009	0.00013
	-0.055594	0.207837	-0.221180	-0.00042	0.00007	0.00014
	-0.055669	0.200500	-0.219652	-0.00041	0.00007	0.00014
	0.050107	0.280712	-0.199170	-0.00064	0.00015	0.00006
	0.050032	0.273375	-0.197642	-0.00063	0.00015	0.00007
	-0.054499	0.272687	-0.235328	-0.00052	0.00013	0.00007

	-0.054574	0.265350	-0.233800	-0.00051	0.00012	0.00008
	0.053692	-0.226843	-0.094375	0.00018	-0.00032	-0.00007
	0.053617	-0.234180	-0.092847	0.00019	-0.00033	-0.00006
	-0.050914	-0.234867	-0.130533	0.00030	-0.00035	-0.00006
	-0.050989	-0.242205	-0.129005	0.00032	-0.00035	-0.00005
	0.054787	-0.161992	-0.108523	0.00008	-0.00027	-0.00013
	0.054712	-0.169329	-0.106995	0.00009	-0.00027	-0.00013
	-0.049819	-0.170017	-0.144680	0.00020	-0.00029	-0.00012
	-0.049894	-0.177354	-0.143153	0.00021	-0.00030	-0.00011
535	0.049008	0.215442	-0.224229	-0.00034	0.00003	0.00013
	0.048933	0.212377	-0.223511	-0.00034	0.00003	0.00014
	-0.055593	0.212808	-0.185756	-0.00046	-0.00005	0.00014
	-0.055668	0.209743	-0.185037	-0.00045	-0.00004	0.00015
	0.050109	0.243688	-0.230931	-0.00040	-0.00002	0.00006
	0.050034	0.240623	-0.230213	-0.00039	-0.00002	0.00007
	-0.054491	0.241054	-0.192457	-0.00051	-0.00010	0.00007
	-0.054567	0.237989	-0.191739	-0.00051	-0.00009	0.00008
	0.053703	-0.193155	-0.132009	0.00021	0.00035	-0.00007
	0.053628	-0.196220	-0.131290	0.00021	0.00035	-0.00007
	-0.050898	-0.195789	-0.093535	0.00009	0.00027	-0.00007
	-0.050973	-0.198854	-0.092817	0.00010	0.00028	-0.00006
	0.054805	-0.164909	-0.138710	0.00015	0.00030	-0.00014
	0.054730	-0.167975	-0.137992	0.00016	0.00030	-0.00014
	-0.049796	-0.167543	-0.100237	0.00004	0.00022	-0.00013
	-0.049871	-0.170608	-0.099518	0.00004	0.00023	-0.00013
536	0.049001	0.221608	-0.234091	-0.00045	0.00026	0.00013
	0.048925	0.221150	-0.234060	-0.00045	0.00026	0.00014
	-0.055594	0.222688	-0.220709	-0.00045	0.00019	0.00014
	-0.055670	0.222230	-0.220678	-0.00045	0.00019	0.00015
	0.050104	0.227497	-0.234352	-0.00046	0.00026	0.00006
	0.050029	0.227039	-0.234321	-0.00046	0.00026	0.00007
	-0.054490	0.228577	-0.220970	-0.00046	0.00018	0.00008
	-0.054566	0.228119	-0.220939	-0.00046	0.00019	0.00008
	0.053703	-0.179347	-0.216078	0.00037	0.00032	-0.00007
	0.053628	-0.179805	-0.216047	0.00037	0.00032	-0.00006
	-0.050891	-0.178266	-0.202696	0.00036	0.00025	-0.00006
	-0.050967	-0.178724	-0.202665	0.00037	0.00025	-0.00005
	0.054807	-0.173458	-0.216339	0.00036	0.00032	-0.00014
	0.054731	-0.173916	-0.216308	0.00036	0.00032	-0.00013
	-0.049788	-0.172378	-0.202957	0.00035	0.00025	-0.00013
	-0.049864	-0.172836	-0.202926	0.00036	0.00025	-0.00012
537	0.048993	0.239894	-0.250557	-0.00050	0.00001	0.00013
	0.048918	0.243111	-0.250693	-0.00050	0.00001	0.00014
	-0.055598	0.245460	-0.249756	-0.00052	-0.00010	0.00014
	-0.055674	0.248678	-0.249892	-0.00053	-0.00010	0.00015
	0.050099	0.214268	-0.249372	-0.00044	0.00001	0.00006
	0.050023	0.217486	-0.249508	-0.00045	0.00001	0.00007
	-0.054492	0.219835	-0.248572	-0.00046	-0.00010	0.00008
	-0.054568	0.223052	-0.248708	-0.00047	-0.00010	0.00008
	0.053703	-0.168797	-0.245470	0.00032	0.00002	-0.00007
	0.053627	-0.165579	-0.245605	0.00031	0.00002	-0.00006
	-0.050888	-0.163230	-0.244669	0.00030	-0.00009	-0.00006
	-0.050964	-0.160013	-0.244805	0.00029	-0.00009	-0.00005
	0.054808	-0.194422	-0.244285	0.00038	0.00002	-0.00014
	0.054732	-0.191205	-0.244421	0.00037	0.00002	-0.00013
	-0.049783	-0.188856	-0.243484	0.00036	-0.00009	-0.00013
	-0.049859	-0.185638	-0.243620	0.00035	-0.00009	-0.00012
538	0.048992	0.266161	-0.248384	-0.00052	0.00004	0.00013
	0.048915	0.272816	-0.248517	-0.00054	0.00004	0.00014
	-0.055599	0.276110	-0.248492	-0.00055	-0.00008	0.00014
	-0.055676	0.282765	-0.248626	-0.00056	-0.00008	0.00015
	0.050097	0.211052	-0.247150	-0.00041	0.00004	0.00006
	0.050020	0.217708	-0.247283	-0.00043	0.00004	0.00007
	-0.054493	0.221001	-0.247258	-0.00044	-0.00008	0.00007
	-0.054570	0.227657	-0.247392	-0.00045	-0.00008	0.00008
	0.053707	-0.168268	-0.241930	0.00030	0.00004	-0.00007
	0.053630	-0.161612	-0.242063	0.00029	0.00004	-0.00006
	-0.050884	-0.158318	-0.242039	0.00028	-0.00007	-0.00006
	-0.050961	-0.151663	-0.242172	0.00027	-0.00007	-0.00005
	0.054812	-0.223376	-0.240696	0.00041	0.00004	-0.00014
	0.054735	-0.216721	-0.240829	0.00040	0.00004	-0.00013
	-0.049779	-0.213427	-0.240805	0.00039	-0.00007	-0.00013
	-0.049855	-0.206771	-0.240938	0.00038	-0.00007	-0.00012
539	0.048989	0.297374	-0.247926	-0.00068	-0.00004	0.00013
	0.048912	0.307228	-0.248055	-0.00069	-0.00004	0.00014
	-0.055600	0.311394	-0.247654	-0.00071	-0.00015	0.00014
	-0.055677	0.321248	-0.247783	-0.00072	-0.00015	0.00015
	0.050094	0.214818	-0.246682	-0.00052	-0.00004	0.00006
	0.050017	0.224672	-0.246811	-0.00053	-0.00004	0.00007
	-0.054495	0.228838	-0.246410	-0.00055	-0.00015	0.00007
	-0.054572	0.238692	-0.246539	-0.00057	-0.00015	0.00008
	0.053706	-0.174498	-0.241695	0.00021	-0.00003	-0.00007
	0.053629	-0.164645	-0.241825	0.00019	-0.00003	-0.00006



	-0.050883	-0.160478	-0.241423	0.00018	-0.00014	-0.00006
	-0.050960	-0.150624	-0.241553	0.00016	-0.00014	-0.00005
	0.054812	-0.257055	-0.240452	0.00037	-0.00003	-0.00014
	0.054735	-0.247201	-0.240581	0.00035	-0.00003	-0.00013
	-0.049777	-0.243034	-0.240179	0.00034	-0.00015	-0.00013
	-0.049854	-0.233181	-0.240309	0.00032	-0.00014	-0.00012
540	0.048983	0.336504	-0.246887	-0.00086	0.00008	0.00013
	0.048906	0.349795	-0.246998	-0.00088	0.00008	0.00014
	-0.055597	0.354908	-0.249647	-0.00090	-0.00003	0.00014
	-0.055674	0.368198	-0.249757	-0.00092	-0.00003	0.00015
	0.050087	0.224477	-0.245762	-0.00064	0.00007	0.00006
	0.050010	0.237767	-0.245872	-0.00067	0.00007	0.00007
	-0.054493	0.242881	-0.248521	-0.00068	-0.00004	0.00008
	-0.054570	0.256171	-0.248631	-0.00071	-0.00004	0.00008
	0.053698	-0.186827	-0.243000	0.00014	0.00009	-0.00007
	0.053622	-0.173537	-0.243110	0.00011	0.00009	-0.00006
	-0.050882	-0.168424	-0.245759	0.00010	-0.00002	-0.00006
	-0.050958	-0.155134	-0.245869	0.00007	-0.00002	-0.00005
	0.054802	-0.298854	-0.241875	0.00035	0.00008	-0.00014
	0.054726	-0.285564	-0.241985	0.00033	0.00008	-0.00013
	-0.049777	-0.280451	-0.244634	0.00031	-0.00003	-0.00013
	-0.049854	-0.267161	-0.244744	0.00029	-0.00002	-0.00012
541	0.048972	0.379913	-0.221822	-0.00082	-0.00006	0.00013
	0.048895	0.396643	-0.221501	-0.00085	-0.00007	0.00014
	-0.055596	0.402753	-0.232174	-0.00088	-0.00020	0.00014
	-0.055673	0.419483	-0.231853	-0.00091	-0.00020	0.00015
	0.050076	0.238415	-0.224653	-0.00053	-0.00004	0.00006
	0.049999	0.255146	-0.224331	-0.00057	-0.00004	0.00007
	-0.054492	0.261255	-0.235004	-0.00059	-0.00017	0.00007
	-0.054569	0.277985	-0.234683	-0.00062	-0.00018	0.00008
	0.053693	-0.203531	-0.239592	0.00036	0.00003	-0.00007
	0.053617	-0.186801	-0.239270	0.00032	0.00003	-0.00006
	-0.050874	-0.180692	-0.249943	0.00030	-0.00011	-0.00006
	-0.050951	-0.163962	-0.249622	0.00027	-0.00011	-0.00006
	0.054797	-0.345029	-0.242422	0.00064	0.00005	-0.00014
	0.054721	-0.328299	-0.242100	0.00061	0.00005	-0.00013
	-0.049770	-0.322189	-0.252773	0.00058	-0.00008	-0.00013
	-0.049847	-0.305459	-0.252452	0.00055	-0.00008	-0.00012
542	0.048974	0.396233	-0.212779	-0.00102	-0.00008	0.00012
	0.048897	0.414187	-0.211730	-0.00106	-0.00008	0.00013
	-0.055594	0.420569	-0.208971	-0.00110	-0.00011	0.00014
	-0.055671	0.438523	-0.207922	-0.00114	-0.00011	0.00014
	0.050077	0.244248	-0.222648	-0.00062	-0.00006	0.00006
	0.050001	0.262203	-0.221599	-0.00067	-0.00006	0.00007
	-0.054491	0.268584	-0.218840	-0.00070	-0.00009	0.00007
	-0.054568	0.286538	-0.217791	-0.00075	-0.00009	0.00008
	0.053691	-0.210243	-0.251961	0.00054	-0.00003	-0.00007
	0.053614	-0.192289	-0.250912	0.00050	-0.00003	-0.00006
	-0.050877	-0.185907	-0.248153	0.00046	-0.00006	-0.00006
	-0.050954	-0.167953	-0.247104	0.00042	-0.00006	-0.00005
	0.054794	-0.362228	-0.261830	0.00093	-0.00001	-0.00014
	0.054718	-0.344274	-0.260781	0.00089	-0.00001	-0.00013
	-0.049774	-0.337892	-0.258023	0.00085	-0.00004	-0.00013
	-0.049851	-0.319938	-0.256974	0.00081	-0.00004	-0.00012
543	0.048975	0.398913	-0.210431	-0.00102	-0.00010	0.00012
	0.048898	0.417065	-0.209375	-0.00107	-0.00010	0.00013
	-0.055594	0.423471	-0.206796	-0.00110	-0.00013	0.00014
	-0.055671	0.441623	-0.205739	-0.00114	-0.00013	0.00014
	0.050078	0.245238	-0.220391	-0.00063	-0.00009	0.00006
	0.050001	0.263390	-0.219334	-0.00067	-0.00009	0.00006
	-0.054491	0.269796	-0.216755	-0.00070	-0.00012	0.00007
	-0.054568	0.287948	-0.215699	-0.00075	-0.00012	0.00008
	0.053691	-0.211349	-0.249670	0.00055	-0.00007	-0.00008
	0.053614	-0.193197	-0.248614	0.00051	-0.00007	-0.00007
	-0.050878	-0.186791	-0.246035	0.00047	-0.00010	-0.00007
	-0.050954	-0.168639	-0.244978	0.00043	-0.00010	-0.00006
	0.054794	-0.365024	-0.259630	0.00095	-0.00006	-0.00015
	0.054717	-0.346872	-0.258573	0.00090	-0.00006	-0.00014
	-0.049775	-0.340466	-0.255994	0.00087	-0.00009	-0.00013
	-0.049851	-0.322314	-0.254938	0.00083	-0.00009	-0.00013
544	0.049010	0.415805	-0.204234	-0.00091	0.00008	0.00014
	0.048951	0.435350	-0.203129	-0.00095	0.00008	0.00014
	-0.055323	0.444196	-0.183073	-0.00097	-0.00013	0.00016
	-0.055382	0.463740	-0.181968	-0.00101	-0.00013	0.00017
	0.049926	0.250150	-0.214198	-0.00056	0.00007	0.00006
	0.049867	0.269695	-0.213093	-0.00059	0.00007	0.00007
	-0.054407	0.278541	-0.193038	-0.00062	-0.00013	0.00009
	-0.054466	0.298086	-0.191933	-0.00065	-0.00013	0.00010
	0.053119	-0.223132	-0.238771	0.00046	0.00003	-0.00010
	0.053059	-0.203588	-0.237666	0.00042	0.00003	-0.00009
	-0.051214	-0.194742	-0.217610	0.00040	-0.00017	-0.00007
	-0.051274	-0.175197	-0.216506	0.00036	-0.00017	-0.00006
	0.054035	-0.388787	-0.248735	0.00082	0.00003	-0.00018

	0.053976	-0.369242	-0.247631	0.00078	0.00003	-0.00017
	-0.050298	-0.360396	-0.227575	0.00075	-0.00018	-0.00015
	-0.050357	-0.340852	-0.226470	0.00072	-0.00018	-0.00014
545	-0.028872	0.238465	-0.245616	-0.00028	0.00010	0.00014
	-0.033659	0.224243	-0.245019	-0.00025	0.00009	0.00015
	-0.138917	0.221438	-0.256530	-0.00024	-0.00018	0.00015
	-0.143704	0.207216	-0.255933	-0.00021	-0.00020	0.00015
	0.012574	0.362327	-0.252618	-0.00054	0.00021	0.00008
	0.007786	0.348106	-0.252021	-0.00051	0.00020	0.00008
	-0.097472	0.345300	-0.263532	-0.00050	-0.00007	0.00008
	-0.102259	0.331078	-0.262935	-0.00047	-0.00009	0.00009
	0.094437	-0.302589	-0.196256	0.00084	0.00043	-0.00005
	0.089650	-0.316811	-0.195659	0.00087	0.00042	-0.00004
	-0.015609	-0.319617	-0.207170	0.00088	0.00015	-0.00004
	-0.020396	-0.333838	-0.206573	0.00091	0.00014	-0.00004
	0.135882	-0.178727	-0.203258	0.00058	0.00054	-0.00011
	0.131095	-0.192949	-0.202661	0.00061	0.00053	-0.00011
	0.025836	-0.195754	-0.214172	0.00062	0.00026	-0.00011
	0.021049	-0.209976	-0.213575	0.00065	0.00025	-0.00010
546	-0.028863	0.223751	-0.245843	-0.00035	-0.00011	0.00013
	-0.033651	0.213209	-0.245560	-0.00033	-0.00012	0.00014
	-0.138919	0.211499	-0.253167	-0.00032	-0.00033	0.00014
	-0.143706	0.200956	-0.252884	-0.00030	-0.00034	0.00015
	0.012581	0.316092	-0.249419	-0.00052	-0.00003	0.00006
	0.007794	0.305550	-0.249136	-0.00050	-0.00004	0.00007
	-0.097474	0.303840	-0.256743	-0.00049	-0.00025	0.00007
	-0.102261	0.293297	-0.256461	-0.00047	-0.00026	0.00008
	0.094440	-0.259390	-0.216866	0.00053	0.00014	-0.00007
	0.089652	-0.269933	-0.216583	0.00055	0.00013	-0.00006
	-0.015616	-0.271643	-0.224190	0.00056	-0.00008	-0.00006
	-0.020403	-0.282185	-0.223907	0.00058	-0.00009	-0.00005
	0.135885	-0.167049	-0.220442	0.00036	0.00022	-0.00014
	0.131097	-0.177592	-0.220159	0.00038	0.00022	-0.00013
	0.025829	-0.179302	-0.227766	0.00039	0.00001	-0.00013
	0.021042	-0.189844	-0.227484	0.00041	0.00000	-0.00012
547	-0.028850	0.215862	-0.238144	-0.00037	0.00000	0.00013
	-0.033636	0.208525	-0.238013	-0.00036	-0.00001	0.00014
	-0.138887	0.207830	-0.241994	-0.00035	-0.00023	0.00014
	-0.143673	0.200492	-0.241863	-0.00034	-0.00024	0.00015
	0.012583	0.280724	-0.239880	-0.00050	0.00009	0.00006
	0.007797	0.273386	-0.239749	-0.00048	0.00008	0.00007
	-0.097454	0.272691	-0.243730	-0.00047	-0.00014	0.00007
	-0.102240	0.265354	-0.243599	-0.00046	-0.00015	0.00008
	0.094406	-0.226839	-0.223252	0.00044	0.00028	-0.00008
	0.089620	-0.234176	-0.223121	0.00045	0.00027	-0.00007
	-0.015631	-0.234871	-0.227102	0.00046	0.00005	-0.00007
	-0.020417	-0.242209	-0.226971	0.00047	0.00004	-0.00006
	0.135839	-0.161977	-0.224988	0.00031	0.00037	-0.00015
	0.131053	-0.169315	-0.224857	0.00033	0.00036	-0.00014
	0.025802	-0.170010	-0.228838	0.00034	0.00014	-0.00014
	0.021016	-0.177347	-0.228706	0.00035	0.00013	-0.00013
548	-0.028844	0.214392	-0.199765	-0.00061	-0.00113	0.00013
	-0.033627	0.210419	-0.200106	-0.00060	-0.00112	0.00014
	-0.138838	0.210625	-0.208604	-0.00059	-0.00100	0.00014
	-0.143622	0.206652	-0.208944	-0.00058	-0.00099	0.00015
	0.012570	0.250429	-0.195816	-0.00070	-0.00119	0.00006
	0.007786	0.246456	-0.196156	-0.00069	-0.00118	0.00007
	-0.097425	0.246663	-0.204654	-0.00069	-0.00106	0.00007
	-0.102208	0.242690	-0.204995	-0.00068	-0.00105	0.00008
	0.094339	-0.199229	-0.213200	0.00037	-0.00093	-0.00007
	0.089555	-0.203202	-0.213540	0.00038	-0.00092	-0.00006
	-0.015655	-0.202995	-0.222039	0.00039	-0.00080	-0.00006
	-0.020439	-0.206968	-0.222379	0.00040	-0.00079	-0.00005
	0.135753	-0.163191	-0.209250	0.00028	-0.00099	-0.00014
	0.130969	-0.167164	-0.209591	0.00029	-0.00098	-0.00013
	0.025758	-0.166958	-0.218089	0.00030	-0.00086	-0.00013
	0.020974	-0.170931	-0.218430	0.00031	-0.00085	-0.00012
549	-0.028843	0.214507	-0.202093	-0.00061	0.00023	0.00013
	-0.033627	0.210608	-0.202310	-0.00060	0.00023	0.00014
	-0.138837	0.210834	-0.207981	-0.00059	0.00008	0.00014
	-0.143621	0.206935	-0.208198	-0.00058	0.00009	0.00015
	0.012570	0.249901	-0.199290	-0.00070	0.00020	0.00006
	0.007786	0.246002	-0.199506	-0.00069	0.00020	0.00007
	-0.097424	0.246228	-0.205178	-0.00068	0.00005	0.00007
	-0.102208	0.242329	-0.205394	-0.00067	0.00006	0.00008
	0.094338	-0.198735	-0.212333	0.00037	0.00157	-0.00007
	0.089554	-0.202634	-0.212550	0.00038	0.00158	-0.00007
	-0.015656	-0.202407	-0.218221	0.00039	0.00143	-0.00006
	-0.020439	-0.206306	-0.218438	0.00040	0.00143	-0.00006
	0.135751	-0.163341	-0.209529	0.00028	0.00154	-0.00014
	0.130968	-0.167240	-0.209746	0.00029	0.00155	-0.00014
	0.025758	-0.167013	-0.215418	0.00030	0.00140	-0.00013
	0.020974	-0.170912	-0.215634	0.00031	0.00141	-0.00012

550	-0.028839	0.215427	-0.201103	-0.00042	0.00044	0.00013
	-0.033622	0.212363	-0.199958	-0.00042	0.00044	0.00014
	-0.138828	0.212810	-0.174630	-0.00041	0.00062	0.00014
	-0.143611	0.209746	-0.173485	-0.00040	0.00062	0.00015
	0.012572	0.243662	-0.210911	-0.00048	0.00036	0.00006
	0.007789	0.240598	-0.209766	-0.00047	0.00037	0.00007
	-0.097417	0.241045	-0.184438	-0.00046	0.00054	0.00007
	-0.102200	0.237981	-0.183293	-0.00046	0.00055	0.00008
	0.094332	-0.193177	-0.230866	0.00031	0.00020	-0.00008
	0.089548	-0.196241	-0.229721	0.00032	0.00021	-0.00007
	-0.015657	-0.195794	-0.204393	0.00032	0.00038	-0.00007
	-0.020441	-0.198858	-0.203248	0.00033	0.00039	-0.00006
	0.135743	-0.164942	-0.240674	0.00026	0.00013	-0.00015
	0.130959	-0.168006	-0.239529	0.00026	0.00014	-0.00014
	0.025754	-0.167559	-0.214201	0.00027	0.00031	-0.00014
	0.020970	-0.170623	-0.213056	0.00027	0.00032	-0.00013
551	-0.028841	0.221604	-0.227059	-0.00029	-0.00001	0.00013
	-0.033625	0.221148	-0.226820	-0.00030	-0.00002	0.00014
	-0.138832	0.222684	-0.220436	-0.00032	-0.00024	0.00014
	-0.143615	0.222228	-0.220198	-0.00032	-0.00025	0.00015
	0.012571	0.227487	-0.229165	-0.00029	0.00008	0.00006
	0.007787	0.227031	-0.228927	-0.00029	0.00007	0.00007
	-0.097420	0.228567	-0.222543	-0.00032	-0.00015	0.00007
	-0.102203	0.228111	-0.222305	-0.00032	-0.00016	0.00008
	0.094320	-0.179372	-0.236966	0.00015	0.00027	-0.00007
	0.089537	-0.179828	-0.236728	0.00015	0.00026	-0.00006
	-0.015671	-0.178292	-0.230344	0.00012	0.00004	-0.00006
	-0.020454	-0.178747	-0.230105	0.00012	0.00003	-0.00005
	0.135732	-0.173489	-0.239073	0.00015	0.00036	-0.00014
	0.130949	-0.173945	-0.238835	0.00015	0.00035	-0.00013
	0.025741	-0.172409	-0.232450	0.00012	0.00013	-0.00013
	0.020958	-0.172865	-0.232212	0.00012	0.00012	-0.00012
552	-0.028845	0.238411	-0.201666	-0.00027	-0.00084	0.00013
	-0.033629	0.241396	-0.202083	-0.00027	-0.00083	0.00014
	-0.138852	0.243667	-0.215123	-0.00030	-0.00066	0.00014
	-0.143636	0.246652	-0.215540	-0.00030	-0.00065	0.00015
	0.012578	0.214822	-0.198164	-0.00023	-0.00090	0.00006
	0.007794	0.217806	-0.198581	-0.00023	-0.00089	0.00007
	-0.097429	0.220078	-0.211622	-0.00026	-0.00072	0.00007
	-0.102213	0.223063	-0.212039	-0.00026	-0.00072	0.00008
	0.094342	-0.169160	-0.217993	0.00027	-0.00103	-0.00007
	0.089558	-0.166175	-0.218410	0.00027	-0.00102	-0.00006
	-0.015664	-0.163904	-0.231451	0.00024	-0.00085	-0.00006
	-0.020448	-0.160919	-0.231867	0.00024	-0.00084	-0.00005
	0.135765	-0.192749	-0.214492	0.00031	-0.00109	-0.00014
	0.130981	-0.189765	-0.214909	0.00031	-0.00108	-0.00013
	0.025758	-0.187493	-0.227949	0.00028	-0.00091	-0.00013
	0.020974	-0.184508	-0.228366	0.00028	-0.00091	-0.00012
553	-0.028844	0.239894	-0.206434	-0.00026	0.00001	0.00013
	-0.033628	0.243115	-0.206411	-0.00026	0.00001	0.00014
	-0.138852	0.245452	-0.209615	-0.00029	-0.00014	0.00014
	-0.143636	0.248673	-0.209593	-0.00030	-0.00014	0.00015
	0.012579	0.214271	-0.206951	-0.00022	0.00003	0.00006
	0.007795	0.217493	-0.206928	-0.00022	0.00002	0.00007
	-0.097428	0.219829	-0.210132	-0.00025	-0.00013	0.00008
	-0.102212	0.223051	-0.210110	-0.00025	-0.00013	0.00008
	0.094345	-0.168802	-0.219987	0.00026	0.00006	-0.00007
	0.089561	-0.165581	-0.219964	0.00026	0.00006	-0.00006
	-0.015663	-0.163244	-0.223169	0.00023	-0.00009	-0.00006
	-0.020447	-0.160023	-0.223146	0.00023	-0.00010	-0.00005
	0.135768	-0.194425	-0.220504	0.00031	0.00007	-0.00014
	0.130984	-0.191203	-0.220481	0.00030	0.00007	-0.00013
	0.025761	-0.188867	-0.223686	0.00028	-0.00008	-0.00013
	0.020977	-0.185645	-0.223663	0.00027	-0.00008	-0.00012
554	-0.028843	0.240777	-0.207069	-0.00027	-0.00061	0.00013
	-0.033627	0.244132	-0.206793	-0.00027	-0.00062	0.00014
	-0.138851	0.246515	-0.204320	-0.00030	-0.00081	0.00014
	-0.143635	0.249870	-0.204044	-0.00030	-0.00082	0.00015
	0.012580	0.213976	-0.209913	-0.00022	-0.00044	0.00007
	0.007796	0.217331	-0.209637	-0.00022	-0.00046	0.00007
	-0.097428	0.219714	-0.207164	-0.00025	-0.00064	0.00008
	-0.102212	0.223069	-0.206888	-0.00026	-0.00066	0.00008
	0.094346	-0.168614	-0.223729	0.00026	0.00036	-0.00007
	0.089562	-0.165259	-0.223453	0.00025	0.00034	-0.00006
	-0.015662	-0.162876	-0.220980	0.00022	0.00016	-0.00006
	-0.020446	-0.159521	-0.220704	0.00022	0.00014	-0.00005
	0.135770	-0.195415	-0.226573	0.00030	0.00053	-0.00014
	0.130986	-0.192060	-0.226296	0.00030	0.00051	-0.00013
	0.025762	-0.189677	-0.223824	0.00027	0.00033	-0.00012
	0.020978	-0.186322	-0.223547	0.00027	0.00031	-0.00012
555	-0.028843	0.240919	-0.207103	-0.00027	0.00094	0.00013
	-0.033627	0.244295	-0.206787	-0.00027	0.00094	0.00014

	-0.138851	0.246685	-0.203444	-0.00030	0.00107	0.00014
	-0.143635	0.250060	-0.203128	-0.00030	0.00107	0.00015
	0.012580	0.213938	-0.210304	-0.00022	0.00088	0.00007
	0.007796	0.217314	-0.209988	-0.00022	0.00088	0.00007
	-0.097428	0.219704	-0.206645	-0.00025	0.00101	0.00008
	-0.102212	0.223079	-0.206329	-0.00026	0.00101	0.00008
	0.094346	-0.168582	-0.224438	0.00026	0.00074	-0.00007
	0.089562	-0.165206	-0.224122	0.00025	0.00075	-0.00006
	-0.015662	-0.162816	-0.220779	0.00022	0.00087	-0.00006
	-0.020446	-0.159441	-0.220463	0.00022	0.00088	-0.00005
	0.135770	-0.195563	-0.227638	0.00030	0.00068	-0.00013
	0.130986	-0.192188	-0.227323	0.00030	0.00069	-0.00013
	0.025762	-0.189797	-0.223980	0.00027	0.00081	-0.00012
	0.020978	-0.186422	-0.223664	0.00027	0.00082	-0.00012
556	-0.028841	0.266162	-0.231187	-0.00041	-0.00013	0.00014
	-0.033625	0.272818	-0.231312	-0.00042	-0.00014	0.00014
	-0.138859	0.276113	-0.232058	-0.00043	-0.00037	0.00015
	-0.143643	0.282769	-0.232184	-0.00044	-0.00038	0.00015
	0.012584	0.211052	-0.229574	-0.00030	-0.00003	0.00007
	0.007800	0.217707	-0.229699	-0.00031	-0.00004	0.00008
	-0.097434	0.221002	-0.230445	-0.00033	-0.00028	0.00008
	-0.102218	0.227658	-0.230571	-0.00034	-0.00029	0.00009
	0.094362	-0.168271	-0.223379	0.00038	0.00016	-0.00007
	0.089578	-0.161615	-0.223505	0.00037	0.00015	-0.00006
	-0.015656	-0.158320	-0.224251	0.00036	-0.00009	-0.00006
	-0.020440	-0.151664	-0.224376	0.00035	-0.00010	-0.00005
	0.135786	-0.223381	-0.221766	0.00049	0.00025	-0.00014
	0.131002	-0.216725	-0.221892	0.00048	0.00024	-0.00013
	0.025769	-0.213430	-0.222638	0.00047	0.00001	-0.00013
	0.020985	-0.206775	-0.222763	0.00046	0.00000	-0.00012
557	-0.028842	0.297365	-0.245527	-0.00053	-0.00014	0.00013
	-0.033625	0.307221	-0.246007	-0.00055	-0.00015	0.00014
	-0.138865	0.311397	-0.245840	-0.00056	-0.00026	0.00014
	-0.143649	0.321253	-0.246319	-0.00059	-0.00027	0.00015
	0.012584	0.214808	-0.240531	-0.00033	-0.00010	0.00006
	0.007800	0.224664	-0.241011	-0.00035	-0.00010	0.00007
	-0.097440	0.228840	-0.240844	-0.00037	-0.00022	0.00007
	-0.102224	0.238696	-0.241323	-0.00039	-0.00023	0.00008
	0.094370	-0.174521	-0.220598	0.00056	-0.00001	-0.00007
	0.089586	-0.164665	-0.221077	0.00054	-0.00002	-0.00006
	-0.015654	-0.160489	-0.220910	0.00052	-0.00013	-0.00006
	-0.020437	-0.150633	-0.221390	0.00050	-0.00014	-0.00005
	0.135795	-0.257078	-0.215602	0.00075	0.00003	-0.00014
	0.131012	-0.247222	-0.216081	0.00073	0.00003	-0.00013
	0.025772	-0.243046	-0.215914	0.00071	-0.00009	-0.00013
	0.020988	-0.233190	-0.216394	0.00069	-0.00010	-0.00012
558	-0.028838	0.336503	-0.263211	-0.00050	0.00013	0.00014
	-0.033621	0.349793	-0.264497	-0.00053	0.00013	0.00014
	-0.138863	0.354905	-0.265144	-0.00055	-0.00001	0.00015
	-0.143647	0.368196	-0.266430	-0.00058	-0.00001	0.00016
	0.012584	0.224478	-0.250854	-0.00024	0.00017	0.00006
	0.007801	0.237768	-0.252141	-0.00027	0.00016	0.00007
	-0.097441	0.242880	-0.252787	-0.00029	0.00003	0.00008
	-0.102225	0.256171	-0.254073	-0.00032	0.00003	0.00008
	0.094370	-0.186831	-0.210157	0.00071	0.00001	-0.00008
	0.089586	-0.173541	-0.211444	0.00068	0.00001	-0.00007
	-0.015656	-0.168429	-0.212090	0.00066	-0.00012	-0.00007
	-0.020439	-0.155138	-0.213376	0.00063	-0.00013	-0.00006
	0.135792	-0.298856	-0.197801	0.00097	0.00005	-0.00015
	0.131008	-0.285566	-0.199087	0.00094	0.00004	-0.00014
	0.025766	-0.280454	-0.199734	0.00093	-0.00009	-0.00014
	0.020983	-0.267163	-0.201020	0.00090	-0.00009	-0.00013
559	-0.028829	0.379980	-0.280759	-0.00076	-0.00027	0.00012
	-0.033613	0.396708	-0.283385	-0.00080	-0.00028	0.00012
	-0.138866	0.402721	-0.282366	-0.00080	-0.00046	0.00012
	-0.143650	0.419449	-0.284992	-0.00084	-0.00048	0.00012
	0.012592	0.238495	-0.256220	-0.00042	-0.00015	0.00007
	0.007809	0.255223	-0.258846	-0.00046	-0.00017	0.00007
	-0.097444	0.261236	-0.257827	-0.00046	-0.00035	0.00007
	-0.102228	0.277965	-0.260453	-0.00050	-0.00036	0.00007
	0.094380	-0.203479	-0.179955	0.00064	0.00009	-0.00004
	0.089596	-0.186751	-0.182581	0.00060	0.00008	-0.00003
	-0.015657	-0.180738	-0.181562	0.00060	-0.00010	-0.00004
	-0.020441	-0.164010	-0.184188	0.00056	-0.00012	-0.00003
	0.135802	-0.344964	-0.155416	0.00097	0.00021	-0.00009
	0.131018	-0.328236	-0.158042	0.00094	0.00019	-0.00008
	0.025765	-0.322223	-0.157022	0.00094	0.00001	-0.00009
	0.020981	-0.305494	-0.159648	0.00090	0.00000	-0.00008
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	-0.033633	0.434614	-0.293906	-0.00103	-0.00008	-0.00005
	-0.138874	0.442453	-0.280546	-0.00108	-0.00034	-0.00005
	-0.143662	0.461868	-0.284014	-0.00113	-0.00035	-0.00004
	0.012596	0.250632	-0.258278	-0.00054	0.00005	-0.00009

	0.007808	0.270047	-0.261746	-0.00059	0.00004	-0.00009
	-0.097433	0.277887	-0.248386	-0.00064	-0.00022	-0.00009
	-0.102220	0.297302	-0.251854	-0.00069	-0.00023	-0.00008
	0.094387	-0.220208	-0.156669	0.00069	0.00028	0.00008
	0.089600	-0.200793	-0.160137	0.00064	0.00027	0.00009
	-0.015641	-0.192953	-0.146777	0.00059	0.00001	0.00009
	-0.020429	-0.173538	-0.150245	0.00054	0.00000	0.00009
	0.135829	-0.384774	-0.124509	0.00113	0.00040	0.00004
	0.131041	-0.365360	-0.127977	0.00108	0.00039	0.00005
	0.025800	-0.357520	-0.114617	0.00103	0.00013	0.00005
	0.021013	-0.338105	-0.118085	0.00098	0.00012	0.00005
561	-0.061218	0.243057	-0.192534	-0.00048	-0.00033	0.00014
	-0.067955	0.246833	-0.192173	-0.00049	-0.00034	0.00014
	-0.173664	0.249794	-0.188202	-0.00050	-0.00055	0.00015
	-0.180401	0.253570	-0.187841	-0.00050	-0.00056	0.00016
	-0.003062	0.212657	-0.195254	-0.00042	-0.00020	0.00007
	-0.009799	0.216433	-0.194893	-0.00042	-0.00022	0.00007
	-0.115507	0.219395	-0.190922	-0.00043	-0.00043	0.00008
	-0.122244	0.223171	-0.190561	-0.00044	-0.00044	0.00009
	0.111718	-0.168844	-0.179939	0.00031	0.00006	-0.00007
	0.104981	-0.165068	-0.179578	0.00031	0.00005	-0.00006
	-0.000727	-0.162106	-0.175607	0.00030	-0.00016	-0.00006
	-0.007464	-0.158330	-0.175246	0.00029	-0.00018	-0.00005
	0.169875	-0.199243	-0.182659	0.00038	0.00018	-0.00014
	0.163138	-0.195467	-0.182298	0.00037	0.00017	-0.00013
	0.057430	-0.192506	-0.178327	0.00036	-0.00004	-0.00013
	0.050693	-0.188730	-0.177965	0.00035	-0.00005	-0.00012
562	-0.073438	0.223346	-0.196451	-0.00034	-0.00009	0.00013
	-0.080911	0.223446	-0.196358	-0.00034	-0.00010	0.00014
	-0.186775	0.225360	-0.195038	-0.00033	-0.00024	0.00014
	-0.194247	0.225460	-0.194945	-0.00033	-0.00024	0.00015
	-0.008981	0.224459	-0.197295	-0.00035	-0.00001	0.00006
	-0.016453	0.224559	-0.197203	-0.00034	-0.00002	0.00007
	-0.122317	0.226473	-0.195882	-0.00034	-0.00015	0.00007
	-0.129790	0.226573	-0.195790	-0.00034	-0.00016	0.00008
	0.118216	-0.177509	-0.189357	0.00041	0.00017	-0.00007
	0.110743	-0.177409	-0.189265	0.00041	0.00016	-0.00006
	0.004879	-0.175495	-0.187944	0.00041	0.00003	-0.00006
	-0.002593	-0.175395	-0.187852	0.00042	0.00002	-0.00005
	0.182674	-0.176396	-0.190202	0.00040	0.00025	-0.00014
	0.175201	-0.176296	-0.190109	0.00040	0.00025	-0.00013
	0.069337	-0.174382	-0.188789	0.00041	0.00011	-0.00013
	0.061865	-0.174282	-0.188696	0.00041	0.00010	-0.00012
563	-0.084449	0.215540	-0.188705	-0.00033	-0.00004	0.00013
	-0.092575	0.212288	-0.189010	-0.00032	-0.00005	0.00014
	-0.198464	0.212470	-0.193733	-0.00032	-0.00026	0.00014
	-0.206590	0.209218	-0.194038	-0.00031	-0.00027	0.00015
	-0.014381	0.245342	-0.186734	-0.00039	0.00010	0.00007
	-0.022507	0.242090	-0.187039	-0.00039	0.00008	0.00007
	-0.128396	0.242272	-0.191763	-0.00038	-0.00013	0.00008
	-0.136522	0.239020	-0.192068	-0.00037	-0.00014	0.00008
	0.123828	-0.194020	-0.162059	0.00050	0.00038	-0.00007
	0.115702	-0.197272	-0.162364	0.00051	0.00037	-0.00006
	0.009812	-0.197090	-0.167088	0.00051	0.00016	-0.00006
	0.001686	-0.200341	-0.167393	0.00052	0.00015	-0.00005
	0.193896	-0.164218	-0.160089	0.00044	0.00052	-0.00014
	0.185770	-0.167470	-0.160394	0.00044	0.00050	-0.00013
	0.079880	-0.167288	-0.165118	0.00045	0.00030	-0.00012
	0.071754	-0.170539	-0.165423	0.00046	0.00028	-0.00012
564	-0.106437	0.246845	-0.190569	-0.00039	-0.00045	0.00013
	-0.115892	0.251164	-0.189677	-0.00040	-0.00047	0.00014
	-0.222161	0.254292	-0.176592	-0.00042	-0.00075	0.00014
	-0.231616	0.258611	-0.175700	-0.00043	-0.00077	0.00015
	-0.024981	0.211790	-0.196788	-0.00032	-0.00023	0.00007
	-0.034437	0.216109	-0.195896	-0.00033	-0.00025	0.00007
	-0.140705	0.219237	-0.182811	-0.00035	-0.00053	0.00007
	-0.150160	0.223556	-0.181919	-0.00035	-0.00055	0.00008
	0.135714	-0.168446	-0.148357	0.00035	0.00022	-0.00006
	0.126259	-0.164127	-0.147465	0.00034	0.00020	-0.00005
	0.019990	-0.160999	-0.134380	0.00032	-0.00008	-0.00005
	0.010535	-0.156680	-0.133488	0.00031	-0.00010	-0.00005
	0.217170	-0.203501	-0.154576	0.00042	0.00044	-0.00013
	0.207715	-0.199182	-0.153684	0.00041	0.00041	-0.00012
	0.101446	-0.196054	-0.140599	0.00039	0.00014	-0.00012
	0.091991	-0.191735	-0.139707	0.00038	0.00012	-0.00011
565	-0.118659	0.225585	-0.184246	-0.00034	-0.00024	0.00013
	-0.128851	0.226230	-0.184146	-0.00034	-0.00026	0.00014
	-0.235301	0.228288	-0.183320	-0.00036	-0.00048	0.00014
	-0.245494	0.228933	-0.183221	-0.00036	-0.00050	0.00015
	-0.030884	0.222027	-0.185244	-0.00033	-0.00006	0.00006
	-0.041077	0.222671	-0.185145	-0.00033	-0.00008	0.00007
	-0.147527	0.224730	-0.184319	-0.00034	-0.00030	0.00007
	-0.157719	0.225375	-0.184219	-0.00034	-0.00032	0.00008

	0.142256	-0.175559	-0.141177	0.00033	0.00032	-0.00007
	0.132064	-0.174915	-0.141077	0.00033	0.00030	-0.00006
	0.025614	-0.172856	-0.140251	0.00032	0.00008	-0.00006
	0.015421	-0.172211	-0.140152	0.00031	0.00006	-0.00005
	0.230031	-0.179118	-0.142176	0.00035	0.00050	-0.00014
	0.219838	-0.178473	-0.142076	0.00034	0.00048	-0.00013
	0.113388	-0.176414	-0.141250	0.00033	0.00026	-0.00013
	0.103196	-0.175770	-0.141151	0.00033	0.00024	-0.00012
566	-0.129263	0.216381	-0.175130	-0.00028	-0.00025	0.00012
	-0.140247	0.213680	-0.175819	-0.00028	-0.00028	0.00013
	-0.246554	0.214022	-0.186785	-0.00030	-0.00055	0.00013
	-0.257538	0.211321	-0.187474	-0.00030	-0.00057	0.00014
	-0.036249	0.241603	-0.170810	-0.00031	-0.00002	0.00006
	-0.047233	0.238902	-0.171499	-0.00031	-0.00005	0.00007
	-0.153540	0.239244	-0.182465	-0.00033	-0.00031	0.00007
	-0.164524	0.236543	-0.183154	-0.00033	-0.00034	0.00007
	0.147511	-0.190789	-0.116565	0.00041	0.00046	-0.00007
	0.136527	-0.193490	-0.117254	0.00041	0.00043	-0.00006
	0.030220	-0.193147	-0.128220	0.00039	0.00017	-0.00006
	0.019236	-0.195848	-0.128909	0.00040	0.00014	-0.00005
	0.240525	-0.165567	-0.112245	0.00039	0.00069	-0.00013
	0.229541	-0.168268	-0.112934	0.00039	0.00067	-0.00013
	0.123234	-0.167926	-0.123900	0.00037	0.00040	-0.00013
	0.112250	-0.170627	-0.124589	0.00037	0.00037	-0.00012
567	0.083337	0.247770	-0.153851	-0.00049	0.00018	0.00013
	0.084652	0.242713	-0.153783	-0.00048	0.00019	0.00014
	-0.035395	0.243003	-0.131074	-0.00048	-0.00006	0.00013
	-0.034080	0.237945	-0.131006	-0.00047	-0.00006	0.00014
	0.072300	0.293745	-0.154360	-0.00059	0.00016	0.00007
	0.073615	0.288687	-0.154291	-0.00058	0.00016	0.00007
	-0.046432	0.288978	-0.131583	-0.00058	-0.00008	0.00006
	-0.045117	0.283920	-0.131514	-0.00057	-0.00008	0.00007
	0.049971	-0.232621	-0.139763	0.00051	0.00012	-0.00007
	0.051286	-0.237679	-0.139694	0.00052	0.00012	-0.00006
	-0.068762	-0.237388	-0.116986	0.00052	-0.00013	-0.00008
	-0.067447	-0.242446	-0.116917	0.00053	-0.00013	-0.00007
	0.038933	-0.186646	-0.140272	0.00041	0.00010	-0.00014
	0.040248	-0.191704	-0.140203	0.00042	0.00010	-0.00013
	-0.079799	-0.191414	-0.117495	0.00042	-0.00015	-0.00015
	-0.078484	-0.196471	-0.117426	0.00043	-0.00015	-0.00014
568	-0.036933	0.278330	-0.206834	-0.00065	0.00000	0.00017
	-0.042900	0.281865	-0.207197	-0.00066	0.00000	0.00018
	-0.175035	0.285783	-0.219344	-0.00067	0.00000	0.00018
	-0.181002	0.289317	-0.219707	-0.00068	0.00000	0.00019
	0.015420	0.249519	-0.203740	-0.00057	0.00000	0.00009
	0.009454	0.253054	-0.204103	-0.00058	0.00000	0.00010
	-0.122681	0.256972	-0.216250	-0.00059	0.00000	0.00010
	-0.128648	0.260506	-0.216614	-0.00060	0.00000	0.00011
	0.119924	-0.199224	-0.222911	0.00042	0.00000	-0.00008
	0.113957	-0.195689	-0.223274	0.00042	0.00000	-0.00007
	-0.018178	-0.191772	-0.235422	0.00040	0.00000	-0.00007
	-0.024145	-0.188237	-0.235785	0.00040	0.00000	-0.00006
	0.172277	-0.228035	-0.219817	0.00050	0.00000	-0.00017
	0.166310	-0.224500	-0.220180	0.00049	0.00000	-0.00016
	0.034175	-0.220583	-0.232328	0.00048	0.00000	-0.00015
	0.028209	-0.217048	-0.232691	0.00047	0.00000	-0.00014
569	-0.036656	0.280371	-0.210840	-0.00066	0.00000	0.00017
	-0.042624	0.284186	-0.210827	-0.00066	0.00000	0.00017
	-0.174778	0.288224	-0.214236	-0.00068	0.00000	0.00018
	-0.180746	0.292039	-0.214224	-0.00069	0.00000	0.00019
	0.015706	0.249067	-0.211275	-0.00057	0.00000	0.00008
	0.009738	0.252882	-0.211263	-0.00058	0.00000	0.00009
	-0.122415	0.256919	-0.214672	-0.00059	0.00000	0.00010
	-0.128383	0.260734	-0.214659	-0.00060	0.00000	0.00011
	0.120226	-0.198682	-0.224410	0.00043	0.00000	-0.00008
	0.114258	-0.194867	-0.224397	0.00042	0.00000	-0.00007
	-0.017896	-0.190829	-0.227806	0.00040	0.00000	-0.00007
	-0.023864	-0.187014	-0.227794	0.00039	0.00000	-0.00006
	0.172588	-0.229986	-0.224845	0.00051	0.00000	-0.00016
	0.166620	-0.226172	-0.224833	0.00050	0.00000	-0.00016
	0.034466	-0.222134	-0.228242	0.00049	0.00000	-0.00015
	0.028498	-0.218319	-0.228229	0.00048	0.00000	-0.00014
570	-0.036559	0.280974	-0.211233	-0.00066	0.00000	0.00016
	-0.042527	0.284882	-0.211096	-0.00067	0.00000	0.00017
	-0.174664	0.288963	-0.211611	-0.00068	0.00000	0.00018
	-0.180632	0.292870	-0.211473	-0.00069	0.00000	0.00019
	0.015796	0.248846	-0.212843	-0.00057	0.00000	0.00008
	0.009829	0.252754	-0.212706	-0.00058	0.00000	0.00009
	-0.122309	0.256835	-0.213221	-0.00060	0.00000	0.00009
	-0.128276	0.260743	-0.213083	-0.00061	0.00000	0.00010
	0.120305	-0.198475	-0.225802	0.00043	0.00000	-0.00008
	0.114337	-0.194568	-0.225665	0.00042	0.00000	-0.00007
	-0.017800	-0.190487	-0.226180	0.00040	0.00000	-0.00007

	-0.023768	-0.186579	-0.226043	0.00039	0.00000	-0.00006
	0.172660	-0.230603	-0.227412	0.00051	0.00000	-0.00017
	0.166693	-0.226696	-0.227275	0.00050	0.00000	-0.00016
	0.034555	-0.222615	-0.227790	0.00049	0.00000	-0.00015
	0.028588	-0.218707	-0.227653	0.00048	0.00000	-0.00014
571	-0.036480	0.281560	-0.211268	-0.00066	0.00000	0.00016
	-0.042446	0.285560	-0.211005	-0.00067	0.00000	0.00017
	-0.174564	0.289685	-0.208580	-0.00069	0.00000	0.00018
	-0.180531	0.293685	-0.208317	-0.00070	0.00000	0.00018
	0.015867	0.248611	-0.214057	-0.00058	0.00000	0.00008
	0.009901	0.252610	-0.213794	-0.00058	0.00000	0.00009
	-0.122218	0.256736	-0.211368	-0.00060	0.00000	0.00009
	-0.128184	0.260736	-0.211105	-0.00061	0.00000	0.00010
	0.120361	-0.198270	-0.227633	0.00043	0.00000	-0.00008
	0.114395	-0.194270	-0.227370	0.00042	0.00000	-0.00008
	-0.017723	-0.190145	-0.224945	0.00040	0.00000	-0.00007
	-0.023689	-0.186145	-0.224682	0.00039	0.00000	-0.00006
	0.172708	-0.231219	-0.230422	0.00051	0.00000	-0.00017
	0.166742	-0.227219	-0.230159	0.00050	0.00000	-0.00016
	0.034624	-0.223094	-0.227733	0.00049	0.00000	-0.00015
	0.028658	-0.219094	-0.227470	0.00048	0.00000	-0.00014
572	0.139574	0.282026	-0.049387	-0.00035	0.00039	0.00009
	0.143853	0.276249	-0.052558	-0.00033	0.00039	0.00010
	0.003724	0.276813	-0.032378	-0.00033	0.00024	0.00007
	0.008004	0.271036	-0.035549	-0.00031	0.00023	0.00008
	0.102208	0.334893	-0.018315	-0.00051	0.00044	0.00000
	0.106488	0.329116	-0.021486	-0.00049	0.00044	0.00001
	-0.033641	0.329680	-0.001306	-0.00049	0.00029	-0.00002
	-0.029361	0.323903	-0.004477	-0.00047	0.00029	-0.00001
	0.026193	-0.264471	-0.270055	0.00060	-0.00029	-0.00017
	0.030473	-0.270248	-0.273225	0.00062	-0.00029	-0.00016
	-0.109657	-0.269684	-0.253045	0.00062	-0.00044	-0.00019
	-0.105377	-0.275461	-0.256216	0.00064	-0.00044	-0.00018
	-0.011173	-0.211603	-0.238983	0.00044	-0.00023	-0.00026
	-0.006893	-0.217380	-0.242153	0.00046	-0.00024	-0.00025
	-0.147022	-0.216816	-0.221973	0.00046	-0.00038	-0.00028
	-0.142742	-0.222593	-0.225144	0.00048	-0.00039	-0.00027
573	0.139365	0.271986	-0.117218	-0.00042	0.00027	0.00017
	0.143609	0.268104	-0.118752	-0.00041	0.00028	0.00018
	0.003678	0.266461	-0.087041	-0.00039	-0.00001	0.00019
	0.007921	0.262579	-0.088574	-0.00039	0.00000	0.00020
	0.102354	0.307993	-0.103642	-0.00048	0.00020	0.00007
	0.106597	0.304110	-0.105176	-0.00047	0.00020	0.00008
	-0.033334	0.302468	-0.073464	-0.00045	-0.00008	0.00009
	-0.029090	0.298585	-0.074998	-0.00044	-0.00007	0.00010
	0.027348	-0.249732	-0.193406	0.00043	0.00004	-0.00012
	0.031591	-0.253614	-0.194940	0.00044	0.00005	-0.00010
	-0.108340	-0.255257	-0.163228	0.00046	-0.00024	-0.00009
	-0.104096	-0.259139	-0.164762	0.00046	-0.00023	-0.00008
	-0.009664	-0.213725	-0.179830	0.00038	-0.00003	-0.00021
	-0.005420	-0.217607	-0.181363	0.00038	-0.00003	-0.00020
	-0.145351	-0.219250	-0.149652	0.00040	-0.00031	-0.00019
	-0.141108	-0.223132	-0.151185	0.00041	-0.00030	-0.00018
574	0.110575	0.281619	-0.110759	-0.00048	0.00018	0.00018
	0.112933	0.275849	-0.111737	-0.00047	0.00019	0.00019
	-0.024989	0.276285	-0.087986	-0.00046	-0.00006	0.00019
	-0.022630	0.270515	-0.088965	-0.00045	-0.00006	0.00020
	0.090282	0.334411	-0.101195	-0.00059	0.00016	0.00009
	0.092640	0.328641	-0.102173	-0.00057	0.00016	0.00010
	-0.045282	0.329077	-0.078422	-0.00057	-0.00009	0.00009
	-0.042924	0.323308	-0.079401	-0.00056	-0.00009	0.00010
	0.049492	-0.264626	-0.184174	0.00047	0.00010	-0.00011
	0.051850	-0.270396	-0.185153	0.00048	0.00011	-0.00010
	-0.086072	-0.269960	-0.161401	0.00048	-0.00014	-0.00010
	-0.083713	-0.275730	-0.162380	0.00049	-0.00014	-0.00009
	0.029198	-0.211834	-0.174610	0.00036	0.00008	-0.00020
	0.031557	-0.217604	-0.175589	0.00037	0.00008	-0.00019
	-0.106365	-0.217168	-0.151837	0.00038	-0.00017	-0.00019
	-0.104007	-0.222937	-0.152816	0.00039	-0.00017	-0.00018
575	0.111059	0.270935	-0.145740	-0.00024	0.00016	-0.00018
	0.113412	0.267059	-0.146516	-0.00024	0.00016	-0.00017
	-0.023168	0.265311	-0.093329	-0.00014	0.00000	-0.00017
	-0.020815	0.261435	-0.094105	-0.00014	0.00000	-0.00015
	0.090821	0.306880	-0.138284	-0.00028	0.00019	-0.00028
	0.093174	0.303003	-0.139060	-0.00028	0.00019	-0.00026
	-0.043405	0.301256	-0.085873	-0.00018	0.00003	-0.00027
	-0.041053	0.297379	-0.086649	-0.00018	0.00003	-0.00025
	0.050046	-0.249604	-0.209493	0.00006	0.00026	0.00013
	0.052399	-0.253481	-0.210269	0.00006	0.00025	0.00014
	-0.084181	-0.255228	-0.157082	0.00016	0.00009	0.00014
	-0.081828	-0.259105	-0.157858	0.00017	0.00009	0.00015
	0.029808	-0.213660	-0.202037	0.00002	0.00029	0.00003
	0.032161	-0.217536	-0.202813	0.00002	0.00028	0.00004

	-0.104419	-0.219284	-0.149626	0.00012	0.00013	0.00004
	-0.102066	-0.223160	-0.150402	0.00013	0.00012	0.00005
576	0.117031	0.302266	-0.087302	-0.00051	0.00022	0.00017
	0.119516	0.293755	-0.087844	-0.00050	0.00023	0.00018
	-0.028805	0.292306	-0.115089	-0.00049	-0.00005	0.00019
	-0.026320	0.283794	-0.115631	-0.00047	-0.00004	0.00020
	0.095572	0.379758	-0.081752	-0.00065	0.00018	0.00009
	0.098057	0.371247	-0.082294	-0.00064	0.00019	0.00010
	-0.050264	0.369798	-0.109540	-0.00063	-0.00008	0.00011
	-0.047779	0.361287	-0.110081	-0.00062	-0.00008	0.00012
	0.052251	-0.303875	-0.155339	0.00052	0.00010	-0.00009
	0.054736	-0.312386	-0.155881	0.00054	0.00010	-0.00008
	-0.093585	-0.313835	-0.183126	0.00054	-0.00017	-0.00007
	-0.091100	-0.322346	-0.183668	0.00056	-0.00016	-0.00006
	0.030793	-0.226383	-0.149790	0.00038	0.00006	-0.00018
	0.033277	-0.234894	-0.150331	0.00039	0.00006	-0.00017
	-0.115043	-0.236343	-0.177577	0.00040	-0.00021	-0.00015
	-0.112559	-0.244854	-0.178118	0.00042	-0.00020	-0.00014
577	0.117347	0.301235	-0.099709	-0.00050	0.00000	0.00018
	0.119838	0.293778	-0.100457	-0.00049	0.00000	0.00019
	-0.028134	0.293440	-0.102148	-0.00048	0.00000	0.00021
	-0.025643	0.285983	-0.102897	-0.00047	0.00000	0.00022
	0.095811	0.369490	-0.092243	-0.00063	0.00000	0.00009
	0.098303	0.362033	-0.092991	-0.00062	0.00000	0.00010
	-0.049670	0.361695	-0.094683	-0.00061	0.00000	0.00011
	-0.047178	0.354238	-0.095431	-0.00060	0.00000	0.00012
	0.052365	-0.294113	-0.169355	0.00051	0.00000	-0.00010
	0.054856	-0.301570	-0.170104	0.00052	0.00000	-0.00009
	-0.093116	-0.301908	-0.171795	0.00052	0.00000	-0.00008
	-0.090625	-0.309365	-0.172543	0.00054	0.00000	-0.00007
	0.030829	-0.225858	-0.161890	0.00038	0.00000	-0.00019
	0.033321	-0.233315	-0.162638	0.00039	0.00000	-0.00018
	-0.114652	-0.233653	-0.164330	0.00039	0.00000	-0.00017
	-0.112160	-0.241110	-0.165078	0.00041	0.00000	-0.00016
578	0.117641	0.300714	-0.104770	-0.00051	0.00007	0.00023
	0.120136	0.293806	-0.105623	-0.00049	0.00007	0.00024
	-0.027662	0.293813	-0.095948	-0.00049	-0.00019	0.00025
	-0.025167	0.286904	-0.096800	-0.00047	-0.00019	0.00026
	0.096066	0.364056	-0.096327	-0.00063	0.00004	0.00011
	0.098561	0.357147	-0.097180	-0.00062	0.00004	0.00013
	-0.049238	0.357154	-0.087505	-0.00061	-0.00022	0.00013
	-0.046743	0.350245	-0.088357	-0.00059	-0.00022	0.00015
	0.052536	-0.289074	-0.176287	0.00050	0.00018	-0.00012
	0.055031	-0.295982	-0.177139	0.00052	0.00019	-0.00011
	-0.092767	-0.295975	-0.167465	0.00052	-0.00008	-0.00010
	-0.090273	-0.302884	-0.168317	0.00054	-0.00007	-0.00009
	0.030961	-0.225733	-0.167844	0.00038	0.00015	-0.00024
	0.033456	-0.232641	-0.168696	0.00040	0.00016	-0.00023
	-0.114343	-0.232634	-0.159021	0.00040	-0.00011	-0.00022
	-0.111848	-0.239543	-0.159874	0.00042	-0.00010	-0.00021
579	0.117686	0.300112	-0.110676	-0.00051	0.00020	0.00021
	0.120179	0.293960	-0.111662	-0.00050	0.00020	0.00022
	-0.027646	0.294152	-0.087484	-0.00050	-0.00009	0.00022
	-0.025153	0.288000	-0.088471	-0.00048	-0.00008	0.00024
	0.096111	0.356565	-0.100969	-0.00062	0.00015	0.00010
	0.098604	0.350413	-0.101956	-0.00061	0.00016	0.00011
	-0.049221	0.350604	-0.077778	-0.00060	-0.00013	0.00012
	-0.046728	0.344453	-0.078764	-0.00059	-0.00012	0.00013
	0.052592	-0.282240	-0.185016	0.00049	0.00007	-0.00011
	0.055085	-0.288392	-0.186002	0.00050	0.00007	-0.00010
	-0.092741	-0.288201	-0.161824	0.00051	-0.00021	-0.00010
	-0.090248	-0.294352	-0.162811	0.00052	-0.00021	-0.00009
	0.031016	-0.225787	-0.175309	0.00039	0.00003	-0.00022
	0.033510	-0.231939	-0.176296	0.00040	0.00003	-0.00021
	-0.114316	-0.231748	-0.152118	0.00041	-0.00025	-0.00020
	-0.111823	-0.237900	-0.153104	0.00042	-0.00025	-0.00019
580	0.099196	0.302305	-0.134353	0.00000	0.00018	0.00020
	0.100682	0.293798	-0.133795	0.00000	0.00019	0.00021
	-0.048287	0.292429	-0.160190	0.00000	-0.00009	0.00022
	-0.046801	0.283922	-0.159632	0.00000	-0.00008	0.00023
	0.086635	0.379736	-0.139431	0.00000	0.00016	0.00010
	0.088122	0.371229	-0.138873	0.00000	0.00017	0.00011
	-0.060848	0.369860	-0.165267	0.00000	-0.00011	0.00012
	-0.059362	0.361354	-0.164709	0.00000	-0.00010	0.00013
	0.061134	-0.303578	-0.110878	0.00000	0.00012	-0.00010
	0.062620	-0.312085	-0.110319	0.00000	0.00012	-0.00009
	-0.086350	-0.313454	-0.136714	0.00000	-0.00015	-0.00008
	-0.084863	-0.321960	-0.136156	0.00000	-0.00015	-0.00007
	0.048573	-0.226147	-0.115955	0.00000	0.00010	-0.00020
	-0.050059	-0.234653	-0.115397	0.00000	0.00010	-0.00019
	-0.098911	-0.236023	-0.141792	0.00000	-0.00017	-0.00018
	-0.097424	-0.244529	-0.141234	0.00000	-0.00017	-0.00017



581	0.099660	0.300538	-0.155678	0.00000	0.00014	0.00020
	0.101142	0.294393	-0.155610	0.00000	0.00014	0.00021
	-0.047288	0.294360	-0.131672	0.00000	-0.00014	0.00023
	-0.045806	0.288214	-0.131603	0.00000	-0.00014	0.00024
	0.087162	0.356932	-0.156146	0.00000	0.00013	0.00010
	0.088645	0.350787	-0.156077	0.00000	0.00013	0.00011
	-0.059786	0.350754	-0.132139	0.00000	-0.00016	0.00013
	-0.058304	0.344608	-0.132071	0.00000	-0.00015	0.00014
	0.061709	-0.282423	-0.141405	0.00000	0.00010	-0.00010
	0.063191	-0.288569	-0.141336	0.00000	0.00010	-0.00008
	-0.085239	-0.288602	-0.117398	0.00000	-0.00018	-0.00007
	-0.083757	-0.294748	-0.117330	0.00000	-0.00018	-0.00006
	0.049211	-0.226029	-0.141872	0.00000	0.00009	-0.00019
	0.050694	-0.232175	-0.141804	0.00000	0.00009	-0.00018
	-0.097737	-0.232208	-0.117866	0.00000	-0.00020	-0.00017
	-0.096254	-0.238354	-0.117797	0.00000	-0.00019	-0.00016
582	0.069562	0.302323	-0.178757	-0.00051	0.00014	0.00020
	0.070006	0.293820	-0.177115	-0.00050	0.00014	0.00021
	-0.079132	0.292484	-0.203431	-0.00048	-0.00014	0.00021
	-0.078688	0.283981	-0.201789	-0.00047	-0.00014	0.00022
	0.066244	0.379703	-0.194294	-0.00065	0.00014	0.00010
	0.066688	0.371200	-0.192652	-0.00064	0.00014	0.00011
	-0.082450	0.369863	-0.218968	-0.00063	-0.00014	0.00011
	-0.082006	0.361360	-0.217326	-0.00061	-0.00014	0.00013
	0.081215	-0.303255	-0.067868	0.00056	0.00017	-0.00010
	0.081659	-0.311758	-0.066226	0.00057	0.00017	-0.00009
	-0.067479	-0.313095	-0.092542	0.00058	-0.00011	-0.00009
	-0.067035	-0.321598	-0.090900	0.00060	-0.00011	-0.00008
	0.077897	-0.225876	-0.083404	0.00041	0.00017	-0.00020
	0.078341	-0.234379	-0.081762	0.00043	0.00017	-0.00019
	-0.070797	-0.235715	-0.108078	0.00044	-0.00012	-0.00019
	-0.070353	-0.244218	-0.106436	0.00046	-0.00012	-0.00017
583	0.069866	0.301230	-0.189428	-0.00051	0.00000	0.00020
	0.070308	0.293902	-0.188067	-0.00050	0.00000	0.00021
	-0.078790	0.293027	-0.188340	-0.00049	0.00000	0.00021
	-0.078348	0.285699	-0.186979	-0.00048	0.00000	0.00023
	0.066599	0.368171	-0.202306	-0.00064	0.00000	0.00010
	0.067041	0.360844	-0.200945	-0.00062	0.00000	0.00011
	-0.082057	0.359968	-0.201218	-0.00062	0.00000	0.00011
	-0.081615	0.352641	-0.199857	-0.00060	0.00000	0.00012
	0.081254	-0.292805	-0.084503	0.00055	0.00000	-0.00011
	0.081696	-0.300133	-0.083142	0.00057	0.00000	-0.00009
	-0.067401	-0.301008	-0.083415	0.00058	0.00000	-0.00009
	-0.066960	-0.308335	-0.082054	0.00059	0.00000	-0.00008
	0.077988	-0.225863	-0.097381	0.00043	0.00000	-0.00021
	0.078430	-0.233191	-0.096020	0.00044	0.00000	-0.00019
	-0.070668	-0.234066	-0.096293	0.00045	0.00000	-0.00019
	-0.070226	-0.241394	-0.094932	0.00046	0.00000	-0.00018
584	0.070262	0.300725	-0.201229	-0.00050	0.00012	0.00021
	0.070701	0.294586	-0.200101	-0.00049	0.00012	0.00022
	-0.078500	0.294425	-0.175108	-0.00049	-0.00016	0.00023
	-0.078061	0.288285	-0.173979	-0.00048	-0.00016	0.00024
	0.067048	0.357057	-0.211921	-0.00061	0.00012	0.00011
	0.067487	0.350918	-0.210792	-0.00060	0.00012	0.00012
	-0.081713	0.350757	-0.185800	-0.00059	-0.00016	0.00013
	-0.081275	0.344617	-0.184671	-0.00058	-0.00016	0.00014
	0.081338	-0.282050	-0.098742	0.00053	0.00012	-0.00010
	0.081777	-0.288190	-0.097614	0.00054	0.00012	-0.00009
	-0.067424	-0.288351	-0.072621	0.00054	-0.00016	-0.00008
	-0.066985	-0.294490	-0.071492	0.00056	-0.00016	-0.00007
	0.078124	-0.225719	-0.109434	0.00042	0.00013	-0.00020
	0.078563	-0.231858	-0.108305	0.00043	0.00012	-0.00019
	-0.070638	-0.232019	-0.083313	0.00044	-0.00015	-0.00018
	-0.070199	-0.238159	-0.082184	0.00045	-0.00015	-0.00017
585	-0.045828	0.314975	-0.204568	-0.00054	0.00000	0.00020
	-0.052661	0.309155	-0.204805	-0.00053	0.00000	0.00021
	-0.206721	0.308099	-0.212118	-0.00053	0.00000	0.00021
	-0.213555	0.302279	-0.212355	-0.00051	0.00000	0.00023
	0.015257	0.368512	-0.201200	-0.00065	0.00000	0.00009
	0.008424	0.362692	-0.201438	-0.00064	0.00000	0.00010
	-0.145636	0.361637	-0.208750	-0.00063	0.00000	0.00011
	-0.152470	0.355817	-0.208988	-0.00062	0.00000	0.00012
	0.138659	-0.285093	-0.216620	0.00060	0.00000	-0.00013
	0.131825	-0.290913	-0.216858	0.00061	0.00000	-0.00012
	-0.022235	-0.291968	-0.224170	0.00062	0.00000	-0.00011
	-0.029069	-0.297789	-0.224408	0.00063	0.00000	-0.00010
	0.199744	-0.231556	-0.213252	0.00050	0.00000	-0.00024
	0.192910	-0.237376	-0.213490	0.00051	0.00000	-0.00022
	0.038850	-0.238431	-0.220802	0.00051	0.00000	-0.00022
	0.032016	-0.244251	-0.221040	0.00052	0.00000	-0.00020
586	-0.045794	0.314694	-0.206897	-0.00054	0.00000	0.00019
	-0.052628	0.308986	-0.207030	-0.00053	0.00000	0.00021
	-0.206696	0.307988	-0.211780	-0.00052	0.00000	0.00021

	-0.213530	0.302280	-0.211914	-0.00051	0.00000	0.00022
	0.015295	0.367232	-0.204557	-0.00065	0.00000	0.00009
	0.008460	0.361524	-0.204690	-0.00064	0.00000	0.00010
	-0.145607	0.360526	-0.209440	-0.00063	0.00000	0.00011
	-0.152442	0.354818	-0.209574	-0.00062	0.00000	0.00012
	0.138700	-0.284148	-0.215967	0.00060	0.00000	-0.00013
	0.131865	-0.289855	-0.216100	0.00061	0.00000	-0.00012
	-0.022202	-0.290853	-0.220851	0.00062	0.00000	-0.00011
	-0.029037	-0.296561	-0.220984	0.00063	0.00000	-0.00010
	0.199789	-0.231609	-0.213627	0.00050	0.00000	-0.00023
	0.192954	-0.237317	-0.213760	0.00051	0.00000	-0.00022
	0.038886	-0.238315	-0.218511	0.00051	0.00000	-0.00021
	0.032052	-0.244023	-0.218644	0.00052	0.00000	-0.00020
587	-0.045288	0.312855	-0.206195	-0.00053	0.00000	0.00019
	-0.052121	0.308373	-0.205169	-0.00052	0.00000	0.00021
	-0.206146	0.307949	-0.181505	-0.00052	0.00000	0.00021
	-0.212979	0.303467	-0.180479	-0.00051	0.00000	0.00022
	0.015784	0.354501	-0.215252	-0.00061	0.00000	0.00009
	0.008952	0.350019	-0.214226	-0.00060	0.00000	0.00010
	-0.145074	0.349595	-0.190562	-0.00060	0.00000	0.00011
	-0.151906	0.345114	-0.189536	-0.00059	0.00000	0.00012
	0.139158	-0.274496	-0.234366	0.00054	0.00000	-0.00012
	0.132325	-0.278977	-0.233340	0.00055	0.00000	-0.00011
	-0.021700	-0.279401	-0.209676	0.00055	0.00000	-0.00011
	-0.028533	-0.283883	-0.208650	0.00056	0.00000	-0.00010
	0.200230	-0.232849	-0.243423	0.00046	0.00000	-0.00023
	0.193398	-0.237331	-0.242397	0.00047	0.00000	-0.00022
	0.039372	-0.237755	-0.218733	0.00047	0.00000	-0.00021
	0.032540	-0.242237	-0.217707	0.00048	0.00000	-0.00020
588	-0.044925	0.340512	-0.211718	-0.00076	0.00000	0.00020
	-0.051902	0.344777	-0.212036	-0.00077	0.00000	0.00021
	-0.208199	0.349566	-0.223533	-0.00078	0.00000	0.00022
	-0.215177	0.353830	-0.223851	-0.00079	0.00000	0.00023
	0.017124	0.304433	-0.208920	-0.00068	0.00000	0.00010
	0.010146	0.308697	-0.209238	-0.00069	0.00000	0.00011
	-0.146150	0.313486	-0.220735	-0.00069	0.00000	0.00012
	-0.153128	0.317751	-0.221053	-0.00070	0.00000	0.00013
	0.142341	-0.238653	-0.227640	0.00048	0.00000	-0.00010
	0.135363	-0.234388	-0.227958	0.00047	0.00000	-0.00009
	-0.020933	-0.229599	-0.239455	0.00046	0.00000	-0.00008
	-0.027911	-0.225335	-0.239773	0.00045	0.00000	-0.00007
	0.204390	-0.274732	-0.224842	0.00056	0.00000	-0.00020
	0.197412	-0.270468	-0.225160	0.00055	0.00000	-0.00019
	0.041116	-0.265679	-0.236657	0.00055	0.00000	-0.00018
	0.034138	-0.261414	-0.236975	0.00054	0.00000	-0.00017
589	-0.044714	0.343110	-0.215203	-0.00078	0.00000	0.00020
	-0.051692	0.347703	-0.215199	-0.00079	0.00000	0.00021
	-0.207998	0.352640	-0.218760	-0.00079	0.00000	0.00022
	-0.214977	0.357233	-0.218755	-0.00080	0.00000	0.00023
	0.017340	0.304069	-0.215578	-0.00068	0.00000	0.00010
	0.010361	0.308662	-0.215573	-0.00069	0.00000	0.00011
	-0.145945	0.313600	-0.219134	-0.00070	0.00000	0.00012
	-0.152923	0.318192	-0.219130	-0.00071	0.00000	0.00013
	0.142565	-0.238269	-0.228779	0.00048	0.00000	-0.00010
	0.135586	-0.233676	-0.228774	0.00047	0.00000	-0.00009
	-0.020720	-0.228739	-0.232335	0.00047	0.00000	-0.00008
	-0.027699	-0.224146	-0.232331	0.00046	0.00000	-0.00007
	0.204618	-0.277310	-0.229153	0.00057	0.00000	-0.00020
	0.197639	-0.272717	-0.229148	0.00057	0.00000	-0.00019
	0.041334	-0.267779	-0.232710	0.00056	0.00000	-0.00018
	0.034355	-0.263187	-0.232705	0.00055	0.00000	-0.00017
590	-0.044588	0.344656	-0.215650	-0.00078	0.00000	0.00020
	-0.051567	0.349439	-0.215458	-0.00079	0.00000	0.00021
	-0.207874	0.354466	-0.214415	-0.00080	0.00000	0.00022
	-0.214853	0.359249	-0.214223	-0.00081	0.00000	0.00023
	0.017466	0.303899	-0.217863	-0.00069	0.00000	0.00010
	0.010487	0.308682	-0.217671	-0.00070	0.00000	0.00011
	-0.145820	0.313709	-0.216627	-0.00071	0.00000	0.00012
	-0.152799	0.318492	-0.216436	-0.00071	0.00000	0.00013
	0.142692	-0.238071	-0.231032	0.00048	0.00000	-0.00010
	0.135713	-0.233288	-0.230841	0.00048	0.00000	-0.00009
	-0.020594	-0.228261	-0.229797	0.00047	0.00000	-0.00008
	-0.027572	-0.223478	-0.229605	0.00046	0.00000	-0.00007
	0.204746	-0.278827	-0.233245	0.00058	0.00000	-0.00020
	0.197768	-0.274044	-0.233053	0.00057	0.00000	-0.00019
	0.041461	-0.269018	-0.232010	0.00056	0.00000	-0.00018
	0.034482	-0.264235	-0.231818	0.00055	0.00000	-0.00017
591	-0.044568	0.344897	-0.215630	-0.00078	0.00000	0.00020
	-0.051547	0.349710	-0.215410	-0.00079	0.00000	0.00021
	-0.207854	0.354750	-0.213674	-0.00080	0.00000	0.00022
	-0.214833	0.359563	-0.213454	-0.00081	0.00000	0.00023
	0.017486	0.303878	-0.218120	-0.00069	0.00000	0.00010
	0.010507	0.308690	-0.217900	-0.00070	0.00000	0.00011

	-0.145800	0.313731	-0.216164	-0.00071	0.00000	0.00012
	-0.152779	0.318543	-0.215944	-0.00071	0.00000	0.00013
	0.142712	-0.238041	-0.231447	0.00049	0.00000	-0.00010
	0.135733	-0.233229	-0.231227	0.00048	0.00000	-0.00009
	-0.020574	-0.228188	-0.229490	0.00047	0.00000	-0.00008
	-0.027553	-0.223376	-0.229271	0.00046	0.00000	-0.00007
	0.204766	-0.279060	-0.233936	0.00058	0.00000	-0.00020
	0.197787	-0.274248	-0.233717	0.00057	0.00000	-0.00019
	0.041480	-0.269207	-0.231980	0.00056	0.00000	-0.00018
	0.034501	-0.264395	-0.231761	0.00056	0.00000	-0.00017
592	-0.014330	0.569785	-0.589637	0.00158	0.00007	-0.00058
	-0.019119	0.593832	-0.603363	0.00164	0.00006	-0.00061
	-0.166659	0.601356	-0.649161	0.00177	-0.00031	-0.00079
	-0.171449	0.625402	-0.662887	0.00183	-0.00031	-0.00081
	0.027010	0.356594	-0.454925	0.00102	0.00010	-0.00035
	0.022221	0.380641	-0.468651	0.00107	0.00010	-0.00037
	-0.125320	0.388165	-0.514449	0.00121	-0.00028	-0.00055
	-0.130109	0.412212	-0.528175	0.00126	-0.00028	-0.00058
	0.110650	-0.308431	-0.053588	-0.00065	0.00016	0.00049
	0.105861	-0.284384	-0.067313	-0.00060	0.00016	0.00046
	-0.041679	-0.276860	-0.113112	-0.00046	-0.00021	0.00028
	-0.046469	-0.252814	-0.126837	-0.00041	-0.00021	0.00026
	0.151990	-0.521622	0.081124	-0.00122	0.00020	0.00072
	0.147201	-0.497575	0.067399	-0.00116	0.00019	0.00070
	-0.000340	-0.490051	0.021600	-0.00103	-0.00018	0.00052
	-0.005129	-0.466004	0.007874	-0.00097	-0.00018	0.00049
593	-0.014280	0.585726	-0.633190	0.00169	0.00043	0.00010
	-0.019036	0.611013	-0.648116	0.00175	0.00045	0.00013
	-0.166125	0.617942	-0.652917	0.00183	0.00035	0.00070
	-0.170881	0.643229	-0.667843	0.00189	0.00037	0.00073
	0.026760	0.362518	-0.487510	0.00110	0.00024	-0.00013
	0.022003	0.387805	-0.502436	0.00116	0.00026	-0.00010
	-0.125085	0.394735	-0.507236	0.00123	0.00017	0.00046
	-0.129842	0.420022	-0.522162	0.00129	0.00019	0.00049
	0.109736	-0.305800	-0.050419	-0.00067	-0.00027	-0.00057
	0.104980	-0.280513	-0.065345	-0.00061	-0.00025	-0.00054
	-0.042109	-0.273584	-0.070145	-0.00054	-0.00034	0.00003
	-0.046865	-0.248297	-0.085071	-0.00048	-0.00032	0.00006
	0.150775	-0.529008	0.095262	-0.00127	-0.00046	-0.00080
	0.146019	-0.503721	0.080336	-0.00121	-0.00043	-0.00077
	-0.001070	-0.496792	0.075535	-0.00114	-0.00053	-0.00020
	-0.005826	-0.471505	0.060609	-0.00108	-0.00051	-0.00018
594	-0.014475	0.587746	-0.634771	0.00170	-0.00028	0.00029
	-0.019206	0.613213	-0.649921	0.00176	-0.00029	0.00029
	-0.165733	0.620368	-0.653023	0.00182	-0.00039	-0.00003
	-0.170465	0.645836	-0.668173	0.00189	-0.00039	-0.00003
	0.026363	0.363157	-0.487446	0.00109	-0.00021	0.00029
	0.021632	0.388625	-0.502597	0.00115	-0.00021	0.00029
	-0.124895	0.395780	-0.505698	0.00122	-0.00031	-0.00003
	-0.129626	0.421247	-0.520848	0.00128	-0.00032	-0.00003
	0.108965	-0.304963	-0.047081	-0.00068	0.00008	0.00055
	0.104234	-0.279496	-0.062232	-0.00062	0.00008	0.00055
	-0.042293	-0.272340	-0.065333	-0.00056	-0.00002	0.00024
	-0.047024	-0.246873	-0.080483	-0.00050	-0.00003	0.00024
	0.149804	-0.529552	0.100244	-0.00129	0.00016	0.00055
	0.145073	-0.504084	0.085093	-0.00123	0.00015	0.00055
	-0.001454	-0.496929	0.081992	-0.00116	0.00006	0.00023
	-0.006185	-0.471462	0.066842	-0.00110	0.00005	0.00023
595	-0.014840	0.602581	-0.626199	0.00161	0.00022	-0.00071
	-0.019576	0.629470	-0.640552	0.00166	0.00023	-0.00073
	-0.165738	0.639963	-0.609869	0.00167	-0.00001	-0.00062
	-0.170475	0.666852	-0.624223	0.00173	0.00000	-0.00063
	0.026073	0.366657	-0.487663	0.00106	0.00020	-0.00054
	0.021337	0.393546	-0.502017	0.00111	0.00020	-0.00056
	-0.124825	0.404039	-0.471334	0.00112	-0.00003	-0.00045
	-0.129561	0.430928	-0.485687	0.00118	-0.00003	-0.00047
	0.108897	-0.308473	-0.079580	-0.00056	0.00017	0.00013
	0.104161	-0.281584	-0.093934	-0.00051	0.00017	0.00011
	-0.042001	-0.271091	-0.063251	-0.00049	-0.00007	0.00022
	-0.046737	-0.244202	-0.077604	-0.00044	-0.00006	0.00020
	0.149811	-0.544397	0.058955	-0.00111	0.00014	0.00030
	0.145074	-0.517508	0.044602	-0.00106	0.00014	0.00028
	-0.001088	-0.507015	0.075285	-0.00104	-0.00009	0.00039
	-0.005824	-0.480126	0.060931	-0.00099	-0.00009	0.00037
596	-0.041976	0.568122	-0.290717	-0.00092	0.00026	0.00017
	-0.048353	0.592088	-0.293442	-0.00096	0.00026	0.00018
	-0.196637	0.599276	-0.292618	-0.00098	0.00007	0.00018
	-0.203014	0.623242	-0.295342	-0.00102	0.00007	0.00019
	0.012270	0.355870	-0.265169	-0.00058	0.00027	0.00009
	0.005893	0.379837	-0.267894	-0.00062	0.00027	0.00010
	-0.142392	0.387024	-0.267069	-0.00065	0.00007	0.00010
	-0.148768	0.410991	-0.269794	-0.00068	0.00007	0.00011
	0.119862	-0.306203	-0.185971	0.00046	0.00011	-0.00006

	0.113485	-0.282237	-0.188696	0.00042	0.00011	-0.00005
	-0.034800	-0.275049	-0.187872	0.00040	-0.00009	-0.00005
	-0.041176	-0.251083	-0.190596	0.00036	-0.00009	-0.00004
	0.174107	-0.518455	-0.160423	0.00080	0.00011	-0.00014
	0.167730	-0.494488	-0.163148	0.00076	0.00011	-0.00013
	0.019446	-0.487301	-0.162324	0.00073	-0.00008	-0.00013
	0.013069	-0.463334	-0.165048	0.00070	-0.00008	-0.00012
597	-0.041653	0.585202	-0.332444	0.00042	0.00006	-0.00006
	-0.048031	0.610499	-0.336295	0.00043	0.00006	-0.00005
	-0.196565	0.618017	-0.326683	0.00046	0.00009	-0.00004
	-0.202944	0.643314	-0.330534	0.00048	0.00009	-0.00003
	0.012534	0.361977	-0.296138	0.00027	0.00000	-0.00013
	0.006156	0.387274	-0.299989	0.00028	0.00001	-0.00012
	-0.142379	0.394792	-0.290376	0.00031	0.00003	-0.00011
	-0.148757	0.420089	-0.294227	0.00032	0.00004	-0.00010
	0.119921	-0.306158	-0.182129	-0.00017	-0.00013	0.00016
	0.113543	-0.280861	-0.185980	-0.00016	-0.00013	0.00017
	-0.034991	-0.273343	-0.176368	-0.00013	-0.00010	0.00017
	-0.041370	-0.248046	-0.180219	-0.00012	-0.00010	0.00018
	0.174108	-0.529383	-0.145822	-0.00032	-0.00019	0.00008
	0.167730	-0.504086	-0.149673	-0.00031	-0.00018	0.00009
	0.019195	-0.496567	-0.140061	-0.00028	-0.00016	0.00010
	0.012817	-0.471271	-0.143912	-0.00027	-0.00015	0.00011
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	-0.047957	0.613332	-0.337253	0.00044	0.00001	-0.00005
	-0.196664	0.621090	-0.328252	0.00045	0.00004	-0.00004
	-0.203050	0.646610	-0.332254	0.00046	0.00004	-0.00003
	0.012676	0.362782	-0.295523	0.00027	-0.00005	-0.00014
	0.006289	0.388302	-0.299525	0.00029	-0.00004	-0.00013
	-0.142418	0.396060	-0.290524	0.00030	-0.00001	-0.00012
	-0.148804	0.421581	-0.294526	0.00031	-0.00001	-0.00011
	0.120155	-0.306414	-0.178187	-0.00017	-0.00018	0.00015
	0.113769	-0.280893	-0.182190	-0.00015	-0.00017	0.00016
	-0.034938	-0.273135	-0.173188	-0.00014	-0.00014	0.00018
	-0.041325	-0.247615	-0.177191	-0.00012	-0.00014	0.00019
	0.174401	-0.531443	-0.140459	-0.00031	-0.00023	0.00008
	0.168015	-0.505922	-0.144462	-0.00030	-0.00022	0.00009
	0.019308	-0.498165	-0.135460	-0.00029	-0.00020	0.00010
	0.012921	-0.472644	-0.139463	-0.00027	-0.00019	0.00011
599	-0.041524	0.604475	-0.297504	-0.00096	-0.00026	0.00015
	-0.047940	0.631499	-0.301044	-0.00100	-0.00027	0.00016
	-0.196981	0.642011	-0.287166	-0.00103	-0.00043	0.00018
	-0.203397	0.669035	-0.290706	-0.00107	-0.00044	0.00019
	0.012963	0.367353	-0.264593	-0.00058	-0.00016	0.00007
	0.006548	0.394376	-0.268133	-0.00062	-0.00017	0.00008
	-0.142494	0.404889	-0.254254	-0.00065	-0.00033	0.00010
	-0.148909	0.431912	-0.257794	-0.00069	-0.00034	0.00011
	0.120881	-0.311063	-0.160548	0.00050	0.00008	-0.00009
	0.114465	-0.284040	-0.164088	0.00047	0.00007	-0.00008
	-0.034576	-0.273527	-0.150210	0.00043	-0.00009	-0.00006
	-0.040992	-0.246503	-0.153750	0.00040	-0.00010	-0.00005
	0.175369	-0.548185	-0.127637	0.00088	0.00018	-0.00017
	0.168953	-0.521162	-0.131177	0.00084	0.00017	-0.00016
	0.019911	-0.510649	-0.117298	0.00081	0.00001	-0.00014
	0.013496	-0.483626	-0.120838	0.00077	0.00000	-0.00013
600	0.123452	0.316228	-0.099772	-0.00051	0.00022	0.00019
	0.126061	0.308395	-0.100526	-0.00050	0.00022	0.00020
	-0.029731	0.307878	-0.102262	-0.00049	-0.00007	0.00021
	-0.027122	0.300045	-0.103016	-0.00048	-0.00007	0.00022
	0.100781	0.388142	-0.092211	-0.00063	0.00019	0.00009
	0.103390	0.380308	-0.092965	-0.00062	0.00020	0.00010
	-0.052402	0.379792	-0.094701	-0.00061	-0.00010	0.00011
	-0.049793	0.371958	-0.095455	-0.00060	-0.00009	0.00013
	0.054889	-0.309025	-0.170021	0.00050	0.00009	-0.00010
	0.057498	-0.316858	-0.170775	0.00052	0.00010	-0.00009
	-0.098294	-0.317375	-0.172511	0.00052	-0.00019	-0.00008
	-0.095685	-0.325208	-0.173265	0.00054	-0.00019	-0.00007
	0.032218	-0.237111	-0.162461	0.00039	0.00007	-0.00020
	0.034827	-0.244945	-0.163215	0.00040	0.00007	-0.00019
	-0.120965	-0.245461	-0.164950	0.00041	-0.00022	-0.00018
	-0.118356	-0.253295	-0.165704	0.00042	-0.00021	-0.00017
601	-0.052603	0.401115	-0.216210	-0.00061	0.00000	0.00023
	-0.060458	0.406048	-0.216495	-0.00062	0.00000	0.00024
	-0.238995	0.411370	-0.227572	-0.00062	0.00000	0.00025
	-0.246850	0.416303	-0.227857	-0.00063	0.00000	0.00026
	0.018306	0.358345	-0.213594	-0.00055	0.00000	0.00011
	0.010451	0.363278	-0.213880	-0.00055	0.00000	0.00013
	-0.168086	0.368600	-0.224957	-0.00056	0.00000	0.00013
	-0.175941	0.373533	-0.225242	-0.00057	0.00000	0.00014
	0.162897	-0.278339	-0.231957	0.00043	0.00000	-0.00012
	0.155041	-0.273406	-0.232243	0.00042	0.00000	-0.00011
	-0.023495	-0.268084	-0.243320	0.00042	0.00000	-0.00010
	-0.031351	-0.263151	-0.243605	0.00041	0.00000	-0.00009

	0.233806	-0.321109	-0.229342	0.00049	0.00000	-0.00024
	0.225950	-0.316176	-0.229627	0.00049	0.00000	-0.00022
	0.047414	-0.310854	-0.240705	0.00048	0.00000	-0.00022
	0.039559	-0.305921	-0.240990	0.00048	0.00000	-0.00020
602	-0.052346	0.404176	-0.219539	-0.00062	0.00000	0.00023
	-0.060202	0.409484	-0.219539	-0.00063	0.00000	0.00025
	-0.238745	0.414976	-0.223201	-0.00063	0.00000	0.00025
	-0.246601	0.420284	-0.223202	-0.00064	0.00000	0.00027
	0.018565	0.357977	-0.219879	-0.00055	0.00000	0.00012
	0.010709	0.363285	-0.219879	-0.00055	0.00000	0.00013
	-0.167834	0.368778	-0.223541	-0.00056	0.00000	0.00014
	-0.175690	0.374086	-0.223542	-0.00057	0.00000	0.00015
	0.163158	-0.278154	-0.233203	0.00043	0.00000	-0.00012
	0.155303	-0.272846	-0.233203	0.00042	0.00000	-0.00011
	-0.023241	-0.267354	-0.236865	0.00042	0.00000	-0.00010
	-0.031096	-0.262046	-0.236866	0.00041	0.00000	-0.00009
	0.234070	-0.324353	-0.233543	0.00050	0.00000	-0.00024
	0.226214	-0.319045	-0.233543	0.00050	0.00000	-0.00022
	0.047671	-0.313552	-0.237205	0.00049	0.00000	-0.00022
	0.039815	-0.308244	-0.237205	0.00048	0.00000	-0.00021
603	-0.052250	0.405308	-0.219975	-0.00062	0.00000	0.00024
	-0.060105	0.410742	-0.219882	-0.00063	0.00000	0.00025
	-0.238642	0.416290	-0.221081	-0.00063	0.00000	0.00026
	-0.246498	0.421724	-0.220987	-0.00064	0.00000	0.00027
	0.018659	0.357956	-0.221296	-0.00055	0.00000	0.00012
	0.010804	0.363390	-0.221202	-0.00056	0.00000	0.00013
	-0.167733	0.368939	-0.222401	-0.00056	0.00000	0.00014
	-0.175589	0.374373	-0.222308	-0.00057	0.00000	0.00015
	0.163248	-0.278139	-0.234298	0.00043	0.00000	-0.00012
	0.155393	-0.272705	-0.234205	0.00042	0.00000	-0.00011
	-0.023144	-0.267156	-0.235404	0.00042	0.00000	-0.00010
	-0.031000	-0.261722	-0.235310	0.00041	0.00000	-0.00009
	0.234157	-0.325490	-0.235619	0.00050	0.00000	-0.00024
	0.226302	-0.320056	-0.235525	0.00050	0.00000	-0.00022
	0.047765	-0.314507	-0.236724	0.00049	0.00000	-0.00022
	0.039909	-0.309073	-0.236631	0.00048	0.00000	-0.00021
604	-0.052167	0.406485	-0.220063	-0.00062	0.00000	0.00024
	-0.060022	0.412045	-0.219874	-0.00063	0.00000	0.00025
	-0.238551	0.417650	-0.218579	-0.00064	0.00000	0.00026
	-0.246406	0.423210	-0.218390	-0.00064	0.00000	0.00027
	0.018739	0.357975	-0.222372	-0.00055	0.00000	0.00012
	0.010884	0.363535	-0.222183	-0.00056	0.00000	0.00014
	-0.167645	0.369140	-0.220888	-0.00056	0.00000	0.00014
	-0.175500	0.374700	-0.220699	-0.00057	0.00000	0.00015
	0.163324	-0.278150	-0.235702	0.00043	0.00000	-0.00012
	0.155469	-0.272590	-0.235513	0.00043	0.00000	-0.00011
	-0.023060	-0.266986	-0.234219	0.00042	0.00000	-0.00010
	-0.030915	-0.261425	-0.234030	0.00041	0.00000	-0.00009
	0.234230	-0.326660	-0.238012	0.00051	0.00000	-0.00024
	0.226375	-0.321100	-0.237823	0.00050	0.00000	-0.00022
	0.047846	-0.315495	-0.236528	0.00049	0.00000	-0.00022
	0.039991	-0.309935	-0.236339	0.00049	0.00000	-0.00021
605	0.170910	0.365889	-0.125728	-0.00044	0.00030	0.00022
	0.176075	0.353712	-0.126077	-0.00043	0.00031	0.00024
	0.005062	0.348129	-0.141475	-0.00045	0.00004	0.00024
	0.010227	0.335952	-0.141824	-0.00044	0.00004	0.00026
	0.125216	0.477273	-0.122072	-0.00059	0.00023	0.00011
	0.130382	0.465096	-0.122420	-0.00058	0.00024	0.00012
	-0.040632	0.459513	-0.137819	-0.00060	-0.00004	0.00013
	-0.035466	0.447336	-0.138167	-0.00059	-0.00003	0.00014
	0.031869	-0.374395	-0.164868	0.00051	0.00007	-0.00012
	0.037034	-0.386572	-0.165217	0.00053	0.00007	-0.00011
	-0.133979	-0.392155	-0.180615	0.00050	-0.00020	-0.00010
	-0.128814	-0.404332	-0.180964	0.00052	-0.00019	-0.00009
	-0.013825	-0.263011	-0.161212	0.00036	-0.00001	-0.00023
	-0.008659	-0.275188	-0.161560	0.00038	0.00000	-0.00022
	-0.179672	-0.280771	-0.176959	0.00035	-0.00027	-0.00021
	-0.174507	-0.292948	-0.177307	0.00037	-0.00026	-0.00020
606	0.169742	0.351028	-0.029720	-0.00039	-0.00033	0.00019
	0.174919	0.341123	-0.031555	-0.00038	-0.00032	0.00020
	0.004806	0.339369	-0.057315	-0.00035	-0.00040	0.00017
	0.009983	0.329464	-0.059150	-0.00035	-0.00039	0.00018
	0.123955	0.442117	-0.011148	-0.00044	-0.00042	0.00008
	0.129132	0.432212	-0.012983	-0.00044	-0.00041	0.00009
	-0.040981	0.430458	-0.038743	-0.00041	-0.00049	0.00006
	-0.035804	0.420553	-0.040578	-0.00040	-0.00048	0.00007
	0.030218	-0.354450	-0.238755	0.00051	0.00037	-0.00016
	0.035395	-0.364355	-0.240590	0.00051	0.00038	-0.00015
	-0.134719	-0.366109	-0.266349	0.00054	0.00030	-0.00019
	-0.129542	-0.376014	-0.268184	0.00055	0.00031	-0.00018
	-0.015570	-0.263361	-0.220183	0.00045	0.00027	-0.00027
	-0.010392	-0.273266	-0.222018	0.00046	0.00028	-0.00026
	-0.180506	-0.275020	-0.247777	0.00049	0.00021	-0.00030

	-0.175329	-0.284925	-0.249612	0.00049	0.00022	-0.00029
607	0.137459	0.368373	-0.095469	-0.00005	-0.00006	-0.00025
	0.140342	0.356153	-0.095676	-0.00004	-0.00006	-0.00023
	-0.034017	0.350186	-0.158162	-0.00023	-0.00027	-0.00019
	-0.031134	0.337966	-0.158369	-0.00023	-0.00027	-0.00017
	0.112127	0.480197	-0.092691	-0.00012	-0.00004	-0.00041
	0.115010	0.467977	-0.092898	-0.00011	-0.00004	-0.00039
	-0.059349	0.462010	-0.155385	-0.00031	-0.00026	-0.00035
	-0.056466	0.449789	-0.155592	-0.00030	-0.00026	-0.00033
	0.060477	-0.374791	-0.139698	0.00038	0.00003	0.00026
	0.063360	-0.387012	-0.139905	0.00038	0.00003	0.00028
	-0.110998	-0.392978	-0.202392	0.00019	-0.00019	0.00032
	-0.108115	-0.405199	-0.202599	0.00020	-0.00019	0.00034
	0.035145	-0.262967	-0.136921	0.00030	0.00004	0.00010
	0.038028	-0.275188	-0.137128	0.00031	0.00004	0.00012
	-0.136330	-0.281155	-0.199614	0.00012	-0.00017	0.00016
	-0.133447	-0.293375	-0.199821	0.00012	-0.00018	0.00018
608	0.136706	0.351560	-0.087806	-0.00048	0.00005	0.00022
	0.139568	0.341667	-0.088349	-0.00047	0.00006	0.00023
	-0.034242	0.339730	-0.116101	-0.00047	-0.00020	0.00024
	-0.031380	0.329837	-0.116644	-0.00046	-0.00019	0.00026
	0.111582	0.442505	-0.082160	-0.00060	0.00001	0.00010
	0.114445	0.432612	-0.082703	-0.00059	0.00002	0.00012
	-0.059365	0.430675	-0.110456	-0.00059	-0.00023	0.00013
	-0.056503	0.420782	-0.110999	-0.00058	-0.00023	0.00014
	0.060384	-0.353864	-0.156759	0.00049	0.00019	-0.00013
	0.063246	-0.363756	-0.157301	0.00050	0.00019	-0.00011
	-0.110564	-0.365693	-0.185054	0.00050	-0.00006	-0.00010
	-0.107701	-0.375586	-0.185597	0.00051	-0.00006	-0.00009
	0.035261	-0.262919	-0.151113	0.00037	0.00015	-0.00024
	0.038123	-0.272812	-0.151656	0.00038	0.00015	-0.00023
	-0.135687	-0.274748	-0.179409	0.00037	-0.00010	-0.00021
	-0.132824	-0.284641	-0.179952	0.00039	-0.00010	-0.00020
609	0.125695	0.382528	-0.136457	-0.00050	0.00015	0.00025
	0.127508	0.371835	-0.135905	-0.00049	0.00016	0.00026
	-0.062697	0.369396	-0.162669	-0.00047	-0.00010	0.00027
	-0.060885	0.358703	-0.162117	-0.00045	-0.00009	0.00028
	0.109894	0.481301	-0.141530	-0.00062	0.00013	0.00012
	0.111706	0.470609	-0.140979	-0.00061	0.00013	0.00014
	-0.078499	0.468169	-0.167742	-0.00058	-0.00012	0.00014
	-0.076686	0.457476	-0.167191	-0.00057	-0.00012	0.00016
	0.077221	-0.382583	-0.113363	0.00045	0.00008	-0.00014
	0.079034	-0.393275	-0.112811	0.00046	0.00008	-0.00012
	-0.111172	-0.395715	-0.139575	0.00049	-0.00017	-0.00012
	-0.109359	-0.406408	-0.139023	0.00050	-0.00016	-0.00010
	0.061420	-0.283809	-0.118437	0.00034	0.00006	-0.00026
	0.063232	-0.294502	-0.117885	0.00035	0.00006	-0.00025
	-0.126973	-0.296941	-0.144648	0.00037	-0.00019	-0.00024
	-0.125160	-0.307634	-0.144097	0.00039	-0.00019	-0.00023
610	0.194189	0.449317	-0.175618	-0.00061	0.00025	0.00025
	0.199727	0.423623	-0.176762	-0.00058	0.00025	0.00026
	0.005932	0.413353	-0.195918	-0.00056	0.00008	0.00027
	0.011469	0.387659	-0.197062	-0.00054	0.00008	0.00028
	0.144465	0.684814	-0.163580	-0.00086	0.00021	0.00012
	0.150003	0.659120	-0.164724	-0.00083	0.00021	0.00014
	-0.043793	0.648850	-0.183880	-0.00081	0.00004	0.00014
	-0.038255	0.623156	-0.185024	-0.00079	0.00004	0.00016
	0.042648	-0.563613	-0.244253	0.00050	0.00013	-0.00014
	0.048186	-0.589307	-0.245397	0.00053	0.00013	-0.00013
	-0.145610	-0.599576	-0.264553	0.00055	-0.00005	-0.00012
	-0.140072	-0.625270	-0.265697	0.00057	-0.00004	-0.00010
	-0.007076	-0.328116	-0.232215	0.00025	0.00009	-0.00027
	-0.001538	-0.353810	-0.233359	0.00027	0.00009	-0.00025
	-0.195334	-0.364079	-0.252515	0.00029	-0.00008	-0.00024
	-0.189796	-0.389773	-0.253659	0.00032	-0.00008	-0.00023
611	0.194199	0.416230	-0.163141	-0.00060	0.00002	0.00025
	0.199737	0.397162	-0.163739	-0.00059	0.00002	0.00026
	0.005940	0.390296	-0.180080	-0.00057	-0.00008	0.00027
	0.011478	0.371228	-0.180677	-0.00055	-0.00008	0.00029
	0.144476	0.591430	-0.156723	-0.00080	0.00000	0.00012
	0.150014	0.572362	-0.157321	-0.00078	0.00000	0.00014
	-0.043783	0.565496	-0.173662	-0.00077	-0.00011	0.00014
	-0.038245	0.546428	-0.174260	-0.00075	-0.00011	0.00016
	0.042662	-0.478596	-0.209036	0.00039	-0.00006	-0.00014
	0.048199	-0.497663	-0.209633	0.00041	-0.00006	-0.00013
	-0.145597	-0.504529	-0.225974	0.00042	-0.00016	-0.00012
	-0.140060	-0.523597	-0.226572	0.00044	-0.00016	-0.00011
	-0.007061	-0.303396	-0.202618	0.00020	-0.00008	-0.00027
	-0.001524	-0.322463	-0.203215	0.00021	-0.00008	-0.00026
	-0.195320	-0.329329	-0.219557	0.00023	-0.00019	-0.00025
	-0.189783	-0.348397	-0.220154	0.00025	-0.00019	-0.00024
612	0.194213	0.397330	-0.127185	-0.00039	0.00023	0.00025

	0.199750	0.384034	-0.127548	-0.00038	0.00023	0.00026
	0.005946	0.380175	-0.143255	-0.00043	0.00003	0.00027
	0.011483	0.366879	-0.143618	-0.00042	0.00003	0.00029
	0.144492	0.519982	-0.123376	-0.00053	0.00020	0.00012
	0.150029	0.506687	-0.123739	-0.00052	0.00020	0.00014
	-0.043775	0.502827	-0.139446	-0.00057	0.00000	0.00015
	-0.038238	0.489532	-0.139809	-0.00056	0.00000	0.00016
	0.042684	-0.414682	-0.167514	0.00051	0.00009	-0.00014
	0.048220	-0.427978	-0.167877	0.00052	0.00010	-0.00013
	-0.145584	-0.431837	-0.183583	0.00047	-0.00011	-0.00012
	-0.140047	-0.445133	-0.183946	0.00049	-0.00011	-0.00010
	-0.007038	-0.292029	-0.163704	0.00037	0.00006	-0.00027
	-0.001501	-0.305325	-0.164067	0.00038	0.00007	-0.00025
	-0.195305	-0.309184	-0.179774	0.00033	-0.00014	-0.00024
	-0.189768	-0.322480	-0.180137	0.00035	-0.00014	-0.00023
613	0.194248	0.392539	-0.122672	-0.00058	0.00016	0.00025
	0.199784	0.386937	-0.124194	-0.00057	0.00017	0.00026
	0.005950	0.387023	-0.093057	-0.00058	0.00000	0.00027
	0.011486	0.381421	-0.094579	-0.00057	0.00000	0.00029
	0.144531	0.445148	-0.109172	-0.00066	0.00012	0.00012
	0.150067	0.439547	-0.110693	-0.00065	0.00013	0.00013
	-0.043767	0.439633	-0.079556	-0.00065	-0.00004	0.00014
	-0.038231	0.434031	-0.081078	-0.00064	-0.00004	0.00016
	0.042737	-0.350106	-0.199987	0.00027	0.00003	-0.00014
	0.048273	-0.355707	-0.201509	0.00028	0.00004	-0.00013
	-0.145561	-0.355621	-0.170372	0.00028	-0.00013	-0.00012
	-0.140025	-0.361223	-0.171894	0.00029	-0.00013	-0.00011
	-0.006980	-0.297496	-0.186487	0.00020	-0.00001	-0.00027
	-0.001444	-0.303097	-0.188008	0.00021	0.00000	-0.00026
	-0.195278	-0.303012	-0.156872	0.00020	-0.00017	-0.00025
	-0.189742	-0.308613	-0.158393	0.00021	-0.00017	-0.00024
614	0.194265	0.403636	-0.188750	-0.00052	0.00026	0.00025
	0.199800	0.402730	-0.189068	-0.00052	0.00026	0.00027
	0.005950	0.405815	-0.180479	-0.00052	0.00010	0.00027
	0.011485	0.404908	-0.180798	-0.00052	0.00011	0.00029
	0.144545	0.413469	-0.185922	-0.00054	0.00022	0.00012
	0.150080	0.412563	-0.186240	-0.00054	0.00023	0.00014
	-0.043770	0.415647	-0.177651	-0.00054	0.00006	0.00014
	-0.038235	0.414741	-0.177969	-0.00053	0.00007	0.00016
	0.042748	-0.324996	-0.206737	0.00012	0.00014	-0.00014
	0.048284	-0.325902	-0.207056	0.00012	0.00014	-0.00013
	-0.145567	-0.322818	-0.198467	0.00012	-0.00002	-0.00012
	-0.140031	-0.323724	-0.198785	0.00012	-0.00002	-0.00011
	-0.006972	-0.315163	-0.203909	0.00010	0.00010	-0.00027
	-0.001436	-0.316069	-0.204227	0.00010	0.00010	-0.00026
	-0.195287	-0.312985	-0.195639	0.00010	-0.00006	-0.00025
	-0.189751	-0.313891	-0.195957	0.00011	-0.00005	-0.00023
615	0.194288	0.439410	-0.206879	-0.00042	0.00017	0.00025
	0.199824	0.445125	-0.206985	-0.00042	0.00018	0.00026
	0.005949	0.451287	-0.200458	-0.00043	0.00000	0.00027
	0.011485	0.457002	-0.200564	-0.00044	0.00000	0.00029
	0.144564	0.388928	-0.206439	-0.00039	0.00013	0.00012
	0.150100	0.394643	-0.206545	-0.00039	0.00013	0.00014
	-0.043775	0.400805	-0.200018	-0.00040	-0.00005	0.00014
	-0.038239	0.406520	-0.200124	-0.00040	-0.00004	0.00016
	0.042761	-0.308637	-0.228828	0.00018	0.00003	-0.00014
	0.048298	-0.302922	-0.228934	0.00018	0.00003	-0.00013
	-0.145577	-0.296760	-0.222407	0.00017	-0.00015	-0.00012
	-0.140041	-0.291045	-0.222513	0.00016	-0.00014	-0.00011
	-0.006963	-0.359119	-0.228388	0.00022	-0.00001	-0.00027
	-0.001426	-0.353404	-0.228494	0.00021	-0.00001	-0.00026
	-0.195301	-0.347242	-0.221967	0.00020	-0.00019	-0.00025
	-0.189765	-0.341527	-0.222073	0.00020	-0.00019	-0.00023
616	0.194303	0.492017	-0.207808	-0.00045	0.00016	0.00025
	0.199839	0.503927	-0.207580	-0.00046	0.00017	0.00026
	0.005944	0.513254	-0.204062	-0.00047	-0.00001	0.00027
	0.011481	0.525164	-0.203834	-0.00048	-0.00001	0.00029
	0.144578	0.385110	-0.210566	-0.00037	0.00012	0.00012
	0.150115	0.397020	-0.210337	-0.00037	0.00012	0.00014
	-0.043781	0.406346	-0.206820	-0.00039	-0.00005	0.00014
	-0.038244	0.418256	-0.206591	-0.00039	-0.00005	0.00016
	0.042775	-0.312751	-0.237384	0.00021	0.00003	-0.00014
	0.048312	-0.300841	-0.237156	0.00020	0.00003	-0.00013
	-0.145583	-0.291514	-0.233638	0.00019	-0.00015	-0.00012
	-0.140047	-0.279604	-0.233410	0.00018	-0.00014	-0.00011
	-0.006949	-0.419658	-0.240142	0.00029	-0.00002	-0.00027
	-0.001413	-0.407748	-0.239913	0.00028	-0.00001	-0.00026
	-0.195308	-0.398422	-0.236396	0.00027	-0.00019	-0.00025
	-0.189771	-0.386512	-0.236167	0.00026	-0.00018	-0.00024
617	0.194308	0.554583	-0.203532	-0.00049	0.00018	0.00025
	0.199845	0.572264	-0.202885	-0.00050	0.00018	0.00027
	0.005936	0.584553	-0.200962	-0.00052	0.00001	0.00027
	0.011473	0.602233	-0.200315	-0.00053	0.00001	0.00029

	0.144586	0.395151	-0.210172	-0.00036	0.00014	0.00012
	0.150123	0.412831	-0.209524	-0.00037	0.00014	0.00014
	-0.043786	0.425120	-0.207601	-0.00039	-0.00004	0.00014
	-0.038249	0.442801	-0.206954	-0.00040	-0.00003	0.00016
	0.042788	-0.330199	-0.243111	0.00024	0.00005	-0.00014
	0.048325	-0.312519	-0.242464	0.00023	0.00005	-0.00013
	-0.145584	-0.300229	-0.240541	0.00022	-0.00013	-0.00012
	-0.140048	-0.282549	-0.239894	0.00021	-0.00012	-0.00011
	-0.006934	-0.489632	-0.249751	0.00037	0.00001	-0.00027
	-0.001397	-0.471951	-0.249103	0.00036	0.00001	-0.00026
	-0.195307	-0.459662	-0.247180	0.00035	-0.00017	-0.00025
	-0.189770	-0.441981	-0.246533	0.00033	-0.00016	-0.00023
618	0.194311	0.632707	-0.193021	-0.00055	0.00017	0.00025
	0.199848	0.656580	-0.191678	-0.00057	0.00017	0.00027
	0.005927	0.672039	-0.189777	-0.00059	-0.00001	0.00027
	0.011464	0.695913	-0.188434	-0.00060	0.00000	0.00029
	0.144593	0.416873	-0.206057	-0.00037	0.00013	0.00012
	0.150130	0.440746	-0.204714	-0.00039	0.00013	0.00014
	-0.043791	0.456205	-0.202813	-0.00041	-0.00005	0.00014
	-0.038254	0.480079	-0.201470	-0.00042	-0.00004	0.00016
	0.042802	-0.359819	-0.252117	0.00029	0.00004	-0.00014
	0.048339	-0.335945	-0.250774	0.00027	0.00004	-0.00013
	-0.145582	-0.320486	-0.248873	0.00025	-0.00014	-0.00012
	-0.140045	-0.296612	-0.247530	0.00023	-0.00013	-0.00011
	-0.006916	-0.575653	-0.265153	0.00047	0.00000	-0.00027
	-0.001380	-0.551779	-0.263810	0.00045	0.00000	-0.00026
	-0.195300	-0.536320	-0.261909	0.00043	-0.00018	-0.00025
	-0.189764	-0.512446	-0.260566	0.00041	-0.00017	-0.00023
619	0.194308	0.718887	-0.170039	-0.00071	-0.00002	0.00025
	0.199845	0.748951	-0.167565	-0.00073	-0.00001	0.00026
	0.005917	0.767586	-0.161574	-0.00076	-0.00020	0.00027
	0.011453	0.797650	-0.159100	-0.00078	-0.00019	0.00029
	0.144596	0.446681	-0.193414	-0.00048	-0.00005	0.00012
	0.150132	0.476745	-0.190939	-0.00050	-0.00005	0.00014
	-0.043796	0.495380	-0.184949	-0.00053	-0.00023	0.00014
	-0.038259	0.525444	-0.182474	-0.00055	-0.00023	0.00016
	0.042817	-0.397497	-0.264821	0.00025	0.00010	-0.00014
	0.048353	-0.367432	-0.262347	0.00023	0.00010	-0.00013
	-0.145575	-0.348798	-0.256356	0.00019	-0.00008	-0.00012
	-0.140039	-0.318734	-0.253881	0.00017	-0.00008	-0.00011
	-0.006895	-0.669703	-0.288196	0.00048	0.00007	-0.00027
	-0.001359	-0.639638	-0.285721	0.00046	0.00007	-0.00026
	-0.195287	-0.621004	-0.279730	0.00042	-0.00012	-0.00025
	-0.189751	-0.590940	-0.277256	0.00040	-0.00011	-0.00023
620	0.194310	0.789281	-0.142002	-0.00088	-0.00002	0.00025
	0.199846	0.824116	-0.138471	-0.00091	-0.00002	0.00026
	0.005913	0.845166	-0.120765	-0.00094	-0.00017	0.00027
	0.011449	0.880002	-0.117235	-0.00097	-0.00017	0.00028
	0.144599	0.473658	-0.174923	-0.00055	-0.00004	0.00012
	0.150135	0.508494	-0.171393	-0.00058	-0.00004	0.00014
	-0.043798	0.529544	-0.153687	-0.00060	-0.00020	0.00014
	-0.038262	0.564379	-0.150157	-0.00063	-0.00020	0.00016
	0.042821	-0.430513	-0.272274	0.00043	0.00007	-0.00014
	0.048357	-0.395678	-0.268744	0.00040	0.00008	-0.00012
	-0.145576	-0.374628	-0.251038	0.00038	-0.00008	-0.00012
	-0.140039	-0.339792	-0.247508	0.00035	-0.00008	-0.00010
	-0.006890	-0.746136	-0.305196	0.00077	0.00005	-0.00027
	-0.001354	-0.711300	-0.301665	0.00074	0.00005	-0.00025
	-0.195287	-0.690250	-0.283959	0.00071	-0.00011	-0.00024
	-0.189751	-0.655415	-0.280429	0.00068	-0.00010	-0.00023
621	0.152255	0.393066	-0.088313	-0.00053	0.00019	0.00025
	0.155432	0.382131	-0.088840	-0.00052	0.00019	0.00026
	-0.039317	0.379475	-0.116528	-0.00051	-0.00006	0.00027
	-0.036140	0.368540	-0.117056	-0.00049	-0.00006	0.00029
	0.124010	0.494237	-0.082716	-0.00066	0.00015	0.00012
	0.127187	0.483302	-0.083244	-0.00065	0.00015	0.00013
	-0.067562	0.480646	-0.110931	-0.00064	-0.00010	0.00014
	-0.064385	0.469711	-0.111459	-0.00062	-0.00010	0.00016
	0.066070	-0.392128	-0.157104	0.00048	0.00007	-0.00015
	0.069247	-0.403063	-0.157631	0.00049	0.00007	-0.00013
	-0.125501	-0.405719	-0.185319	0.00051	-0.00018	-0.00012
	-0.122324	-0.416654	-0.185846	0.00052	-0.00018	-0.00011
	0.037825	-0.290957	-0.151507	0.00035	0.00003	-0.00028
	0.041002	-0.301892	-0.152034	0.00036	0.00004	-0.00026
	-0.153747	-0.304548	-0.179722	0.00038	-0.00022	-0.00025
	-0.150570	-0.315483	-0.180249	0.00039	-0.00022	-0.00024
622	0.152266	0.391501	-0.099922	-0.00052	0.00010	0.00025
	0.155443	0.382062	-0.100684	-0.00051	0.00010	0.00027
	-0.039316	0.380253	-0.102293	-0.00050	-0.00015	0.00028
	-0.036139	0.370813	-0.103054	-0.00049	-0.00015	0.00029
	0.124020	0.479059	-0.092091	-0.00063	0.00009	0.00012
	0.127198	0.469619	-0.092852	-0.00062	0.00009	0.00014
	-0.067561	0.467810	-0.094461	-0.00061	-0.00016	0.00015



	-0.064384	0.458370	-0.095223	-0.00060	-0.00016	0.00016
	0.066080	-0.379111	-0.171724	0.00047	0.00014	-0.00014
	0.069257	-0.388551	-0.172486	0.00048	0.00014	-0.00013
	-0.125501	-0.390360	-0.174094	0.00049	-0.00011	-0.00012
	-0.122324	-0.399800	-0.174856	0.00050	-0.00011	-0.00011
	0.037835	-0.291554	-0.163892	0.00036	0.00013	-0.00028
	0.041012	-0.300994	-0.164654	0.00037	0.00013	-0.00026
	-0.153747	-0.302803	-0.166263	0.00038	-0.00012	-0.00025
	-0.150570	-0.312243	-0.167024	0.00039	-0.00012	-0.00024
623	0.152268	0.391092	-0.110862	-0.00052	0.00008	0.00026
	0.155445	0.383146	-0.111856	-0.00052	0.00008	0.00027
	-0.039315	0.382084	-0.087168	-0.00051	-0.00016	0.00028
	-0.036138	0.374138	-0.088162	-0.00050	-0.00015	0.00029
	0.124022	0.465040	-0.100783	-0.00061	0.00004	0.00013
	0.127199	0.457094	-0.101777	-0.00060	0.00004	0.00014
	-0.067562	0.456032	-0.077089	-0.00060	-0.00020	0.00015
	-0.064385	0.448086	-0.078082	-0.00059	-0.00019	0.00016
	0.066080	-0.366965	-0.187208	0.00046	0.00022	-0.00014
	0.069257	-0.374910	-0.188201	0.00047	0.00022	-0.00013
	-0.125503	-0.375973	-0.163514	0.00048	-0.00002	-0.00012
	-0.122326	-0.383918	-0.164507	0.00049	-0.00001	-0.00011
	0.037834	-0.293016	-0.177129	0.00038	0.00017	-0.00027
	0.041011	-0.300962	-0.178122	0.00039	0.00018	-0.00026
	-0.153749	-0.302024	-0.153434	0.00039	-0.00006	-0.00025
	-0.150572	-0.309970	-0.154428	0.00040	-0.00006	-0.00024
624	0.128897	0.392924	-0.136384	-0.00047	0.00015	0.00026
	0.130757	0.381989	-0.135835	-0.00046	0.00015	0.00028
	-0.064536	0.379417	-0.162659	-0.00045	-0.00009	0.00028
	-0.062676	0.368482	-0.162109	-0.00044	-0.00009	0.00030
	0.112638	0.494089	-0.141432	-0.00058	0.00013	0.00013
	0.114498	0.483154	-0.140882	-0.00057	0.00013	0.00015
	-0.080795	0.480583	-0.167706	-0.00056	-0.00012	0.00015
	-0.078934	0.469648	-0.167157	-0.00055	-0.00011	0.00017
	0.078973	-0.392284	-0.113327	0.00046	0.00008	-0.00013
	0.080833	-0.403219	-0.112778	0.00047	0.00008	-0.00012
	-0.114460	-0.405790	-0.139602	0.00049	-0.00016	-0.00011
	-0.112599	-0.416725	-0.139052	0.00050	-0.00016	-0.00010
	0.062714	-0.291118	-0.118375	0.00035	0.00006	-0.00026
	0.064575	-0.302053	-0.117825	0.00036	0.00006	-0.00025
	-0.130718	-0.304625	-0.144649	0.00038	-0.00018	-0.00024
	-0.128858	-0.315560	-0.144100	0.00039	-0.00018	-0.00023
625	0.128758	0.391386	-0.157081	-0.00050	0.00010	0.00025
	0.130618	0.383441	-0.157012	-0.00049	0.00010	0.00027
	-0.064613	0.382241	-0.132460	-0.00048	-0.00013	0.00028
	-0.062753	0.374296	-0.132391	-0.00046	-0.00012	0.00029
	0.112496	0.465343	-0.157493	-0.00063	0.00007	0.00012
	0.114356	0.457398	-0.157424	-0.00061	0.00007	0.00014
	-0.080874	0.456198	-0.132872	-0.00060	-0.00016	0.00015
	-0.079014	0.448253	-0.132803	-0.00059	-0.00015	0.00016
	0.078830	-0.366526	-0.142747	0.00050	0.00020	-0.00014
	0.080690	-0.374471	-0.142678	0.00051	0.00020	-0.00013
	-0.114541	-0.375671	-0.118126	0.00052	-0.00002	-0.00012
	-0.112680	-0.383616	-0.118057	0.00053	-0.00002	-0.00011
	0.062568	-0.292569	-0.143159	0.00037	0.00017	-0.00027
	0.064429	-0.300514	-0.143090	0.00038	0.00017	-0.00026
	-0.130802	-0.301715	-0.118538	0.00039	-0.00005	-0.00025
	-0.128942	-0.309660	-0.118469	0.00040	-0.00005	-0.00024
626	0.120345	0.397835	-0.141069	-0.00032	0.00010	0.00027
	0.121735	0.384548	-0.139759	-0.00032	0.00010	0.00029
	-0.073620	0.380410	-0.204863	-0.00022	-0.00009	0.00028
	-0.072230	0.367123	-0.203552	-0.00021	-0.00009	0.00030
	0.108360	0.520417	-0.153574	-0.00033	0.00007	0.00014
	0.109751	0.507130	-0.152263	-0.00033	0.00008	0.00015
	-0.085605	0.502992	-0.217367	-0.00023	-0.00011	0.00015
	-0.084214	0.489705	-0.216056	-0.00023	-0.00011	0.00016
	0.083210	-0.413891	-0.079658	-0.00007	0.00003	-0.00015
	0.084601	-0.427178	-0.078348	-0.00006	0.00003	-0.00013
	-0.110755	-0.431316	-0.143452	0.00004	-0.00016	-0.00014
	-0.109364	-0.444603	-0.142141	0.00004	-0.00016	-0.00012
	0.071226	-0.291309	-0.092163	-0.00008	0.00000	-0.00029
	0.072616	-0.304596	-0.090852	-0.00008	0.00001	-0.00027
	-0.122739	-0.308734	-0.155956	0.00002	-0.00018	-0.00028
	-0.121349	-0.322021	-0.154645	0.00002	-0.00018	-0.00026
627	0.120395	0.392916	-0.152280	-0.00052	0.00014	0.00026
	0.121785	0.381981	-0.151352	-0.00051	0.00014	0.00027
	-0.073591	0.379417	-0.178015	-0.00053	-0.00011	0.00028
	-0.072200	0.368482	-0.177087	-0.00052	-0.00011	0.00029
	0.108407	0.494085	-0.161082	-0.00064	0.00012	0.00013
	0.109798	0.483150	-0.160154	-0.00063	0.00013	0.00014
	-0.085578	0.480586	-0.186817	-0.00065	-0.00012	0.00015
	-0.084188	0.469650	-0.185889	-0.00064	-0.00012	0.00016
	0.083250	-0.392306	-0.098440	0.00051	0.00009	-0.00014
	0.084641	-0.403241	-0.097512	0.00053	0.00009	-0.00013

	-0.110735	-0.405805	-0.124175	0.00051	-0.00016	-0.00012
	-0.109344	-0.416740	-0.123247	0.00052	-0.00016	-0.00011
	0.071263	-0.291137	-0.107242	0.00039	0.00007	-0.00027
	0.072654	-0.302072	-0.106313	0.00040	0.00007	-0.00025
	-0.122722	-0.304636	-0.132977	0.00038	-0.00018	-0.00025
	-0.121332	-0.315571	-0.132049	0.00040	-0.00018	-0.00024
628	0.091073	0.392915	-0.181848	-0.00054	0.00011	0.00025
	0.091617	0.381980	-0.180222	-0.00053	0.00011	0.00026
	-0.104211	0.379414	-0.206609	-0.00050	-0.00013	0.00027
	-0.103666	0.368479	-0.204983	-0.00049	-0.00013	0.00029
	0.086795	0.494079	-0.197541	-0.00065	0.00010	0.00012
	0.087339	0.483145	-0.195915	-0.00064	0.00010	0.00013
	-0.108488	0.480579	-0.222302	-0.00061	-0.00014	0.00014
	-0.107944	0.469644	-0.220676	-0.00060	-0.00014	0.00016
	0.106352	-0.392290	-0.070699	0.00029	0.00003	-0.00015
	0.106896	-0.403225	-0.069073	0.00030	0.00003	-0.00013
	-0.088932	-0.405791	-0.095459	0.00033	-0.00021	-0.00012
	-0.088388	-0.416726	-0.093834	0.00034	-0.00021	-0.00011
	0.102074	-0.291126	-0.086392	0.00018	0.00003	-0.00028
	0.102618	-0.302060	-0.084766	0.00019	0.00003	-0.00026
	-0.093210	-0.304626	-0.111153	0.00022	-0.00021	-0.00025
	-0.092666	-0.315561	-0.109527	0.00023	-0.00021	-0.00024
629	0.091073	0.391510	-0.192364	-0.00053	0.00014	0.00026
	0.091617	0.382070	-0.190981	-0.00051	0.00015	0.00027
	-0.104208	0.380260	-0.190887	-0.00053	-0.00016	0.00028
	-0.103665	0.370819	-0.189504	-0.00052	-0.00016	0.00029
	0.086799	0.479071	-0.205681	-0.00063	0.00012	0.00013
	0.087343	0.469631	-0.204298	-0.00062	0.00013	0.00014
	-0.108483	0.467821	-0.204204	-0.00064	-0.00019	0.00015
	-0.107939	0.458380	-0.202821	-0.00063	-0.00018	0.00016
	0.106341	-0.379148	-0.084602	0.00038	0.00004	-0.00014
	0.106884	-0.388588	-0.083218	0.00039	0.00005	-0.00013
	-0.088941	-0.390399	-0.083124	0.00037	-0.00026	-0.00012
	-0.088397	-0.399839	-0.081741	0.00039	-0.00026	-0.00011
	0.102066	-0.291587	-0.097918	0.00028	0.00002	-0.00027
	0.102610	-0.301027	-0.096535	0.00029	0.00002	-0.00026
	-0.093215	-0.302838	-0.096441	0.00027	-0.00029	-0.00025
	-0.092671	-0.312278	-0.095058	0.00028	-0.00028	-0.00024
630	0.091078	0.391095	-0.203912	-0.00050	0.00011	0.00025
	0.091622	0.383149	-0.202785	-0.00049	0.00011	0.00027
	-0.104207	0.382085	-0.177826	-0.00052	-0.00006	0.00028
	-0.103663	0.374139	-0.176699	-0.00051	-0.00006	0.00029
	0.086807	0.465042	-0.214749	-0.00059	0.00008	0.00012
	0.087350	0.457097	-0.213622	-0.00058	0.00008	0.00014
	-0.108478	0.456032	-0.188662	-0.00061	-0.00009	0.00015
	-0.107934	0.448086	-0.187535	-0.00060	-0.00008	0.00016
	0.106336	-0.366976	-0.100814	0.00035	0.00025	-0.00014
	0.106879	-0.374922	-0.099687	0.00036	0.00025	-0.00013
	-0.088949	-0.375986	-0.074727	0.00033	0.00009	-0.00012
	-0.088405	-0.383932	-0.073600	0.00034	0.00009	-0.00011
	0.102065	-0.293029	-0.111650	0.00027	0.00022	-0.00027
	0.102608	-0.300974	-0.110523	0.00028	0.00023	-0.00026
	-0.093220	-0.302039	-0.085564	0.00025	0.00006	-0.00025
	-0.092677	-0.309985	-0.084437	0.00026	0.00006	-0.00024
631	0.090980	0.392685	-0.226735	-0.00021	0.00013	0.00025
	0.091522	0.387083	-0.226220	-0.00021	0.00014	0.00027
	-0.104273	0.387153	-0.186222	-0.00021	0.00010	0.00027
	-0.103731	0.381551	-0.185707	-0.00020	0.00011	0.00029
	0.086704	0.445337	-0.231629	-0.00026	0.00009	0.00012
	0.087246	0.439735	-0.231115	-0.00026	0.00009	0.00014
	-0.108549	0.439805	-0.191116	-0.00026	0.00005	0.00014
	-0.108007	0.434202	-0.190602	-0.00025	0.00006	0.00016
	0.106223	-0.350127	-0.159513	0.00031	0.00044	-0.00014
	0.106765	-0.355729	-0.158999	0.00031	0.00044	-0.00013
	-0.089030	-0.355659	-0.119000	0.00032	0.00041	-0.00012
	-0.088488	-0.361261	-0.118486	0.00032	0.00041	-0.00011
	0.101947	-0.297475	-0.164407	0.00026	0.00039	-0.00027
	0.102489	-0.303077	-0.163893	0.00026	0.00039	-0.00026
	-0.093306	-0.303007	-0.123894	0.00027	0.00036	-0.00025
	-0.092764	-0.308609	-0.123380	0.00027	0.00036	-0.00024
632	0.090243	0.449314	-0.234595	-0.00047	0.00032	0.00025
	0.090080	0.423620	-0.234578	-0.00045	0.00032	0.00026
	-0.105972	0.413350	-0.248400	-0.00043	0.00014	0.00027
	-0.106134	0.387656	-0.248383	-0.00041	0.00014	0.00028
	0.092391	0.684809	-0.234717	-0.00070	0.00033	0.00012
	0.092228	0.659115	-0.234700	-0.00068	0.00033	0.00013
	-0.103824	0.648845	-0.248522	-0.00066	0.00014	0.00014
	-0.103986	0.623151	-0.248505	-0.00064	0.00014	0.00016
	0.101265	-0.563603	-0.237874	0.00053	0.00033	-0.00014
	0.101103	-0.589297	-0.237857	0.00055	0.00033	-0.00013
	-0.094949	-0.599568	-0.251679	0.00057	0.00015	-0.00012
	-0.095112	-0.625262	-0.251662	0.00059	0.00015	-0.00011
	0.103413	-0.328109	-0.237996	0.00030	0.00034	-0.00027

	0.103251	-0.353802	-0.237979	0.00033	0.00034	-0.00026
	-0.092801	-0.364073	-0.251801	0.00034	0.00015	-0.00025
	-0.092964	-0.389767	-0.251784	0.00036	0.00015	-0.00024
633	0.090220	0.416070	-0.251944	-0.00038	-0.00003	0.00025
	0.090058	0.397004	-0.251547	-0.00037	-0.00004	0.00027
	-0.105982	0.390190	-0.263001	-0.00035	-0.00015	0.00027
	-0.106144	0.371124	-0.262603	-0.00033	-0.00015	0.00029
	0.092369	0.591250	-0.255703	-0.00055	-0.00003	0.00012
	0.092206	0.572184	-0.255305	-0.00054	-0.00003	0.00014
	-0.103833	0.565370	-0.266759	-0.00052	-0.00014	0.00014
	-0.103996	0.546304	-0.266362	-0.00051	-0.00014	0.00016
	0.101243	-0.478722	-0.234463	0.00050	-0.00007	-0.00014
	0.101080	-0.497787	-0.234065	0.00052	-0.00007	-0.00013
	-0.094959	-0.504602	-0.245520	0.00054	-0.00018	-0.00012
	-0.095122	-0.523668	-0.245122	0.00055	-0.00018	-0.00011
	0.103392	-0.303541	-0.238221	0.00033	-0.00006	-0.00027
	0.103229	-0.322607	-0.237824	0.00035	-0.00006	-0.00026
	-0.092810	-0.329422	-0.249278	0.00036	-0.00017	-0.00025
	-0.092973	-0.348488	-0.248880	0.00038	-0.00017	-0.00024
634	0.090376	0.397185	-0.199631	-0.00058	0.00005	0.00025
	0.090214	0.388887	-0.197949	-0.00057	0.00004	0.00026
	-0.105907	0.380073	-0.240453	-0.00045	0.00002	0.00027
	-0.106069	0.366775	-0.238770	-0.00044	0.00002	0.00028
	0.092525	0.519831	-0.215459	-0.00068	0.00010	0.00012
	0.092362	0.506532	-0.213777	-0.00067	0.00009	0.00013
	-0.103758	0.502719	-0.256280	-0.00054	0.00007	0.00014
	-0.103921	0.489420	-0.254598	-0.00053	0.00007	0.00016
	0.101454	-0.414902	-0.099177	0.00013	-0.00032	-0.00014
	0.101291	-0.428200	-0.097494	0.00014	-0.00032	-0.00013
	-0.094829	-0.432014	-0.139998	0.00026	-0.00034	-0.00012
	-0.094991	-0.445313	-0.138315	0.00027	-0.00035	-0.00010
	0.103603	-0.292256	-0.115004	0.00003	-0.00027	-0.00027
	0.103440	-0.305555	-0.113322	0.00004	-0.00028	-0.00026
	-0.092680	-0.309369	-0.155826	0.00016	-0.00029	-0.00024
	-0.092843	-0.322667	-0.154143	0.00017	-0.00030	-0.00023
635	0.090366	0.392633	-0.240939	-0.00041	0.00007	0.00025
	0.090204	0.387027	-0.240149	-0.00040	0.00008	0.00026
	-0.105921	0.387114	-0.200369	-0.00041	0.00004	0.00027
	-0.106082	0.381508	-0.199580	-0.00041	0.00004	0.00029
	0.092513	0.445262	-0.248389	-0.00046	0.00002	0.00012
	0.092352	0.439656	-0.247599	-0.00046	0.00003	0.00014
	-0.103773	0.439743	-0.207819	-0.00047	-0.00002	0.00014
	-0.103935	0.434137	-0.207029	-0.00046	-0.00001	0.00016
	0.101466	-0.350147	-0.143623	0.00030	0.00045	-0.00014
	0.101305	-0.355753	-0.142833	0.00031	0.00045	-0.00013
	-0.094821	-0.355667	-0.103054	0.00030	0.00041	-0.00012
	-0.094982	-0.361272	-0.102264	0.00031	0.00042	-0.00011
	0.103614	-0.297518	-0.151073	0.00025	0.00040	-0.00027
	0.103452	-0.303124	-0.150283	0.00026	0.00040	-0.00026
	-0.092673	-0.303038	-0.110504	0.00025	0.00036	-0.00025
	-0.092835	-0.308643	-0.109714	0.00025	0.00036	-0.00024
636	0.090376	0.403654	-0.256285	-0.00036	0.00027	0.00025
	0.090214	0.402747	-0.256251	-0.00036	0.00027	0.00027
	-0.105931	0.405833	-0.242323	-0.00036	0.00017	0.00027
	-0.106093	0.404926	-0.242289	-0.00036	0.00017	0.00029
	0.092527	0.413485	-0.256562	-0.00038	0.00026	0.00012
	0.092365	0.412578	-0.256528	-0.00038	0.00026	0.00014
	-0.103781	0.415665	-0.242600	-0.00038	0.00017	0.00014
	-0.103943	0.414757	-0.242566	-0.00037	0.00017	0.00016
	0.101470	-0.325009	-0.236636	0.00032	0.00032	-0.00014
	0.101308	-0.325916	-0.236602	0.00032	0.00032	-0.00013
	-0.094837	-0.322830	-0.222674	0.00032	0.00022	-0.00012
	-0.094999	-0.323737	-0.222640	0.00033	0.00022	-0.00011
	0.103620	-0.315178	-0.236913	0.00030	0.00032	-0.00027
	0.103458	-0.316085	-0.236879	0.00031	0.00032	-0.00026
	-0.092687	-0.312999	-0.222951	0.00031	0.00022	-0.00025
	-0.092849	-0.313906	-0.222917	0.00031	0.00022	-0.00023
637	0.090387	0.439417	-0.274571	-0.00043	0.00002	0.00025
	0.090225	0.445132	-0.274711	-0.00043	0.00002	0.00026
	-0.105938	0.451295	-0.273788	-0.00044	-0.00011	0.00027
	-0.106100	0.457009	-0.273929	-0.00044	-0.00011	0.00029
	0.092538	0.388932	-0.273317	-0.00038	0.00002	0.00012
	0.092376	0.394647	-0.273457	-0.00039	0.00002	0.00014
	-0.103787	0.400810	-0.272534	-0.00040	-0.00011	0.00014
	-0.103949	0.406525	-0.272675	-0.00040	-0.00011	0.00016
	0.101477	-0.308640	-0.268466	0.00027	0.00003	-0.00014
	0.101315	-0.302925	-0.268606	0.00027	0.00003	-0.00013
	-0.094848	-0.296762	-0.267683	0.00026	-0.00010	-0.00012
	-0.095010	-0.291048	-0.267824	0.00026	-0.00010	-0.00011
	0.103628	-0.359125	-0.267212	0.00032	0.00003	-0.00027
	0.103466	-0.353410	-0.267352	0.00031	0.00003	-0.00026
	-0.092697	-0.347247	-0.266429	0.00031	-0.00009	-0.00025
	-0.092859	-0.341532	-0.266570	0.00030	-0.00009	-0.00023

638	0.090405	0.492024	-0.271179	-0.00047	0.00003	0.00025
	0.090242	0.503933	-0.271323	-0.00048	0.00004	0.00027
	-0.105934	0.513259	-0.271326	-0.00049	-0.00009	0.00027
	-0.106097	0.525168	-0.271471	-0.00050	-0.00009	0.00029
	0.092555	0.385114	-0.269801	-0.00038	0.00004	0.00012
	0.092392	0.397024	-0.269945	-0.00038	0.00004	0.00014
	-0.103784	0.406350	-0.269948	-0.00040	-0.00009	0.00014
	-0.103947	0.418259	-0.270093	-0.00040	-0.00009	0.00016
	0.101477	-0.312751	-0.263603	0.00029	0.00004	-0.00014
	0.101314	-0.300842	-0.263748	0.00028	0.00004	-0.00013
	-0.094862	-0.291516	-0.263750	0.00027	-0.00008	-0.00012
	-0.095025	-0.279607	-0.263895	0.00026	-0.00008	-0.00011
	0.103626	-0.419661	-0.262225	0.00038	0.00004	-0.00027
	0.103463	-0.407751	-0.262370	0.00038	0.00004	-0.00026
	-0.092713	-0.398425	-0.262372	0.00036	-0.00008	-0.00025
	-0.092876	-0.386516	-0.262517	0.00036	-0.00008	-0.00024
639	0.090411	0.554586	-0.270704	-0.00063	-0.00004	0.00025
	0.090248	0.572260	-0.270848	-0.00064	-0.00004	0.00027
	-0.105933	0.584538	-0.270390	-0.00065	-0.00016	0.00027
	-0.106095	0.602212	-0.270534	-0.00067	-0.00016	0.00029
	0.092559	0.395161	-0.269279	-0.00048	-0.00004	0.00012
	0.092396	0.412835	-0.269424	-0.00049	-0.00004	0.00014
	-0.103784	0.425114	-0.268965	-0.00051	-0.00016	0.00014
	-0.103947	0.442788	-0.269110	-0.00052	-0.00016	0.00016
	0.101476	-0.330154	-0.263433	0.00022	-0.00003	-0.00014
	0.101313	-0.312480	-0.263577	0.00020	-0.00003	-0.00013
	-0.094867	-0.300201	-0.263119	0.00019	-0.00016	-0.00012
	-0.095030	-0.282527	-0.263263	0.00018	-0.00016	-0.00011
	0.103624	-0.489578	-0.262009	0.00037	-0.00003	-0.00027
	0.103461	-0.471904	-0.262153	0.00035	-0.00003	-0.00026
	-0.092719	-0.459626	-0.261695	0.00034	-0.00015	-0.00025
	-0.092882	-0.441952	-0.261839	0.00033	-0.00015	-0.00024
640	0.090410	0.632678	-0.270505	-0.00080	0.00005	0.00025
	0.090248	0.656546	-0.270636	-0.00082	0.00005	0.00026
	-0.105930	0.672001	-0.273455	-0.00084	-0.00005	0.00027
	-0.106093	0.695869	-0.273586	-0.00086	-0.00005	0.00029
	0.092557	0.416862	-0.269125	-0.00059	0.00005	0.00012
	0.092395	0.440730	-0.269256	-0.00061	0.00005	0.00014
	-0.103784	0.456185	-0.272074	-0.00063	-0.00006	0.00014
	-0.103946	0.480053	-0.272205	-0.00065	-0.00006	0.00016
	0.101471	-0.359761	-0.265510	0.00017	0.00007	-0.00014
	0.101309	-0.335893	-0.265641	0.00015	0.00007	-0.00013
	-0.094870	-0.320438	-0.268460	0.00013	-0.00004	-0.00012
	-0.095032	-0.296570	-0.268591	0.00011	-0.00004	-0.00011
	0.103618	-0.575577	-0.264130	0.00037	0.00007	-0.00027
	0.103455	-0.551709	-0.264261	0.00036	0.00007	-0.00025
	-0.092723	-0.536254	-0.267079	0.00034	-0.00004	-0.00025
	-0.092886	-0.512386	-0.267211	0.00032	-0.00004	-0.00023
641	0.090402	0.718876	-0.240703	-0.00077	-0.00005	0.00025
	0.090239	0.748940	-0.240348	-0.00079	-0.00005	0.00027
	-0.105931	0.767576	-0.252007	-0.00082	-0.00029	0.00028
	-0.106094	0.797640	-0.251651	-0.00084	-0.00029	0.00029
	0.092549	0.446675	-0.243865	-0.00049	0.00000	0.00012
	0.092386	0.476739	-0.243509	-0.00051	0.00000	0.00014
	-0.103784	0.495375	-0.255168	-0.00054	-0.00024	0.00014
	-0.103947	0.525439	-0.254812	-0.00057	-0.00024	0.00016
	0.101470	-0.397486	-0.260116	0.00039	0.00012	-0.00015
	0.101308	-0.367422	-0.259760	0.00036	0.00011	-0.00013
	-0.094863	-0.348786	-0.271419	0.00034	-0.00012	-0.00013
	-0.095025	-0.318722	-0.271063	0.00031	-0.00013	-0.00011
	0.103618	-0.669687	-0.263277	0.00067	0.00016	-0.00028
	0.103455	-0.639623	-0.262921	0.00064	0.00016	-0.00027
	-0.092715	-0.620987	-0.274580	0.00062	-0.00007	-0.00026
	-0.092878	-0.590923	-0.274224	0.00059	-0.00008	-0.00025
642	0.090403	0.751087	-0.239366	-0.00088	-0.00007	0.00024
	0.090240	0.783357	-0.237972	-0.00091	-0.00007	0.00025
	-0.105932	0.803084	-0.213643	-0.00098	-0.00017	0.00027
	-0.106095	0.835355	-0.212249	-0.00101	-0.00018	0.00028
	0.092551	0.458809	-0.253977	-0.00052	-0.00004	0.00011
	0.092388	0.491079	-0.252583	-0.00055	-0.00004	0.00013
	-0.103785	0.510806	-0.228254	-0.00062	-0.00014	0.00014
	-0.103947	0.543076	-0.226861	-0.00065	-0.00015	0.00015
	0.101472	-0.412359	-0.291123	0.00056	0.00003	-0.00015
	0.101310	-0.380089	-0.289729	0.00052	0.00002	-0.00014
	-0.094863	-0.360362	-0.265400	0.00046	-0.00008	-0.00012
	-0.095026	-0.328092	-0.264006	0.00042	-0.00009	-0.00011
	0.103620	-0.704638	-0.305734	0.00092	0.00006	-0.00028
	0.103457	-0.672367	-0.304340	0.00088	0.00005	-0.00026
	-0.092715	-0.652640	-0.280011	0.00082	-0.00005	-0.00025
	-0.092878	-0.620370	-0.278618	0.00078	-0.00005	-0.00023
643	0.090324	0.788446	-0.218360	-0.00070	-0.00001	0.00025
	0.090159	0.823277	-0.217280	-0.00073	-0.00001	0.00027

	-0.105949	0.844349	-0.195808	-0.00075	-0.00010	0.00028
	-0.106114	0.879179	-0.194729	-0.00078	-0.00010	0.00029
	0.092457	0.473027	-0.228066	-0.00041	-0.00003	0.00012
	0.092292	0.507857	-0.226986	-0.00043	-0.00003	0.00014
	-0.103816	0.528930	-0.205514	-0.00046	-0.00013	0.00015
	-0.103981	0.563760	-0.204434	-0.00048	-0.00012	0.00016
	0.101315	-0.430393	-0.251704	0.00048	-0.00010	-0.00014
	0.101149	-0.395563	-0.250625	0.00045	-0.00010	-0.00013
	-0.094958	-0.374491	-0.229152	0.00043	-0.00019	-0.00012
	-0.095124	-0.339660	-0.228073	0.00040	-0.00019	-0.00011
	0.103448	-0.745813	-0.261410	0.00078	-0.00013	-0.00027
	0.103282	-0.710982	-0.260330	0.00075	-0.00012	-0.00026
	-0.092825	-0.689910	-0.238858	0.00073	-0.00022	-0.00025
	-0.092991	-0.655080	-0.237778	0.00070	-0.00022	-0.00024
644	-0.058953	0.449304	-0.258057	-0.00029	0.00008	0.00025
	-0.067596	0.423610	-0.257443	-0.00027	0.00007	0.00026
	-0.267201	0.413335	-0.269618	-0.00025	-0.00015	0.00027
	-0.275844	0.387641	-0.269004	-0.00023	-0.00016	0.00028
	0.020334	0.684788	-0.265221	-0.00050	0.00016	0.00012
	0.011691	0.659094	-0.264607	-0.00048	0.00015	0.00014
	-0.187914	0.648819	-0.276782	-0.00047	-0.00007	0.00014
	-0.196557	0.623126	-0.276168	-0.00045	-0.00008	0.00016
	0.183572	-0.563568	-0.207404	0.00067	0.00033	-0.00014
	0.174929	-0.589261	-0.206790	0.00069	0.00033	-0.00012
	-0.024677	-0.599537	-0.218965	0.00071	0.00010	-0.00012
	-0.033319	-0.625230	-0.218351	0.00073	0.00010	-0.00010
	0.262859	-0.328083	-0.214568	0.00046	0.00041	-0.00026
	0.254216	-0.353777	-0.213954	0.00048	0.00040	-0.00025
	0.054611	-0.364052	-0.226129	0.00049	0.00018	-0.00024
	0.045968	-0.389746	-0.225515	0.00051	0.00018	-0.00023
645	-0.058944	0.416044	-0.264025	-0.00036	-0.00007	0.00025
	-0.067587	0.396979	-0.263713	-0.00034	-0.00007	0.00026
	-0.267203	0.390162	-0.271444	-0.00033	-0.00026	0.00027
	-0.275846	0.371096	-0.271132	-0.00032	-0.00027	0.00029
	0.020347	0.591211	-0.267903	-0.00052	0.00000	0.00012
	0.011704	0.572145	-0.267591	-0.00051	-0.00001	0.00014
	-0.187912	0.565329	-0.275322	-0.00050	-0.00020	0.00014
	-0.196555	0.546263	-0.275010	-0.00048	-0.00020	0.00016
	0.183591	-0.478680	-0.233382	0.00048	0.00015	-0.00014
	0.174947	-0.497745	-0.233070	0.00050	0.00014	-0.00013
	-0.024668	-0.504562	-0.240801	0.00051	-0.00005	-0.00012
	-0.033312	-0.523628	-0.240489	0.00053	-0.00005	-0.00011
	0.262882	-0.303513	-0.237260	0.00032	0.00022	-0.00027
	0.254238	-0.322579	-0.236948	0.00034	0.00021	-0.00026
	0.054623	-0.329395	-0.244679	0.00035	0.00002	-0.00025
	0.045979	-0.348461	-0.244367	0.00036	0.00001	-0.00024
646	-0.058934	0.397141	-0.257825	-0.00033	0.00000	0.00025
	-0.067579	0.383845	-0.257646	-0.00031	-0.00001	0.00026
	-0.267211	0.380048	-0.261144	-0.00031	-0.00021	0.00027
	-0.275856	0.366752	-0.260965	-0.00030	-0.00022	0.00029
	0.020365	0.519777	-0.260060	-0.00044	0.00007	0.00012
	0.011721	0.506481	-0.259881	-0.00043	0.00006	0.00014
	-0.187912	0.502683	-0.263379	-0.00042	-0.00014	0.00014
	-0.196556	0.489387	-0.263200	-0.00041	-0.00014	0.00016
	0.183621	-0.414895	-0.240735	0.00039	0.00023	-0.00014
	0.174976	-0.428191	-0.240556	0.00040	0.00022	-0.00013
	-0.024656	-0.431989	-0.244055	0.00041	0.00002	-0.00012
	-0.033301	-0.445285	-0.243875	0.00042	0.00002	-0.00011
	0.262920	-0.292260	-0.242970	0.00028	0.00030	-0.00027
	0.254276	-0.305556	-0.242791	0.00029	0.00029	-0.00026
	0.054643	-0.309353	-0.246289	0.00030	0.00009	-0.00025
	0.045999	-0.322649	-0.246110	0.00031	0.00009	-0.00024
647	-0.058940	0.391331	-0.207848	-0.00033	-0.00114	0.00025
	-0.067585	0.384090	-0.208050	-0.00032	-0.00114	0.00027
	-0.267232	0.383374	-0.214912	-0.00034	-0.00103	0.00027
	-0.275877	0.376133	-0.215114	-0.00033	-0.00103	0.00029
	0.020371	0.458872	-0.204672	-0.00038	-0.00119	0.00012
	0.011726	0.451630	-0.204875	-0.00038	-0.00119	0.00014
	-0.187921	0.450915	-0.211736	-0.00039	-0.00108	0.00014
	-0.196566	0.443673	-0.211939	-0.00039	-0.00108	0.00016
	0.183644	-0.361702	-0.219497	0.00027	-0.00096	-0.00014
	0.174999	-0.368944	-0.219700	0.00027	-0.00096	-0.00013
	-0.024647	-0.369659	-0.226561	0.00026	-0.00085	-0.00012
	-0.033292	-0.376901	-0.226764	0.00027	-0.00085	-0.00011
	0.262955	-0.294162	-0.216322	0.00022	-0.00101	-0.00027
	0.254310	-0.301403	-0.216525	0.00022	-0.00101	-0.00026
	0.054663	-0.302119	-0.223386	0.00021	-0.00090	-0.00025
	0.046019	-0.309361	-0.223589	0.00021	-0.00090	-0.00024
648	-0.058940	0.391378	-0.210003	-0.00033	0.00038	0.00026
	-0.067585	0.384271	-0.210109	-0.00033	0.00038	0.00027
	-0.267232	0.383623	-0.214518	-0.00034	0.00026	0.00028
	-0.275877	0.376516	-0.214624	-0.00033	0.00027	0.00029
	0.020371	0.457675	-0.207806	-0.00038	0.00038	0.00013

	0.011726	0.450568	-0.207912	-0.00038	0.00038	0.00014
	-0.187921	0.449920	-0.212321	-0.00039	0.00026	0.00015
	-0.196566	0.442813	-0.212427	-0.00039	0.00026	0.00016
	0.183645	-0.360664	-0.218810	0.00027	0.00118	-0.00014
	0.175000	-0.367771	-0.218916	0.00027	0.00119	-0.00013
	-0.024647	-0.368419	-0.223324	0.00026	0.00107	-0.00012
	-0.033292	-0.375526	-0.223431	0.00026	0.00107	-0.00010
	0.262956	-0.294367	-0.216612	0.00022	0.00118	-0.00027
	0.254311	-0.301474	-0.216718	0.00022	0.00118	-0.00026
	0.054664	-0.302122	-0.221127	0.00021	0.00106	-0.00025
	0.046019	-0.309229	-0.221233	0.00021	0.00106	-0.00023
649	-0.058941	0.392631	-0.211908	-0.00029	0.00022	0.00027
	-0.067586	0.387025	-0.210933	-0.00028	0.00022	0.00029
	-0.267236	0.387108	-0.188232	-0.00029	0.00007	0.00030
	-0.275881	0.381502	-0.187257	-0.00029	0.00007	0.00031
	0.020373	0.445267	-0.220601	-0.00033	0.00027	0.00014
	0.011728	0.439661	-0.219626	-0.00032	0.00026	0.00015
	-0.187922	0.439744	-0.196925	-0.00034	0.00012	0.00016
	-0.196567	0.434138	-0.195950	-0.00033	0.00011	0.00018
	0.183651	-0.350156	-0.239062	0.00029	0.00037	-0.00013
	0.175006	-0.355762	-0.238087	0.00030	0.00037	-0.00012
	-0.024644	-0.355679	-0.215386	0.00029	0.00022	-0.00011
	-0.033289	-0.361285	-0.214411	0.00029	0.00022	-0.00010
	0.262965	-0.297519	-0.247755	0.00025	0.00042	-0.00027
	0.254320	-0.303125	-0.246780	0.00025	0.00042	-0.00025
	0.054670	-0.303043	-0.224079	0.00024	0.00027	-0.00025
	0.046025	-0.308649	-0.223104	0.00025	0.00027	-0.00023
650	-0.058946	0.403629	-0.246161	-0.00024	0.00006	0.00025
	-0.067591	0.402724	-0.245891	-0.00024	0.00006	0.00026
	-0.267245	0.405819	-0.238536	-0.00027	-0.00012	0.00027
	-0.275890	0.404914	-0.238266	-0.00027	-0.00013	0.00028
	0.020375	0.413462	-0.248618	-0.00025	0.00013	0.00012
	0.011730	0.412557	-0.248347	-0.00025	0.00012	0.00013
	-0.187924	0.415651	-0.240993	-0.00027	-0.00006	0.00014
	-0.196569	0.414746	-0.240722	-0.00027	-0.00006	0.00016
	0.183663	-0.324988	-0.256819	0.00017	0.00028	-0.00014
	0.175018	-0.325893	-0.256549	0.00017	0.00027	-0.00013
	-0.024636	-0.322799	-0.249194	0.00015	0.00009	-0.00012
	-0.033280	-0.323703	-0.248924	0.00015	0.00009	-0.00011
	0.262984	-0.315156	-0.259276	0.00017	0.00035	-0.00027
	0.254339	-0.316061	-0.259006	0.00017	0.00034	-0.00026
	0.054685	-0.312966	-0.251651	0.00015	0.00016	-0.00025
	0.046041	-0.313871	-0.251381	0.00015	0.00015	-0.00024
651	-0.058942	0.436376	-0.220193	-0.00021	-0.00106	0.00025
	-0.067586	0.441671	-0.220464	-0.00021	-0.00105	0.00027
	-0.267240	0.447635	-0.231356	-0.00022	-0.00090	0.00028
	-0.275884	0.452929	-0.231626	-0.00022	-0.00090	0.00029
	0.020381	0.389785	-0.217652	-0.00019	-0.00111	0.00013
	0.011737	0.395079	-0.217922	-0.00019	-0.00110	0.00014
	-0.187917	0.401044	-0.228814	-0.00020	-0.00095	0.00015
	-0.196561	0.406338	-0.229085	-0.00020	-0.00095	0.00016
	0.183669	-0.308964	-0.235809	0.00028	-0.00122	-0.00014
	0.175025	-0.303670	-0.236080	0.00028	-0.00121	-0.00013
	-0.024630	-0.297706	-0.246972	0.00027	-0.00106	-0.00012
	-0.033274	-0.292411	-0.247242	0.00026	-0.00106	-0.00010
	0.262991	-0.355556	-0.233268	0.00030	-0.00127	-0.00027
	0.254347	-0.350261	-0.233538	0.00030	-0.00126	-0.00026
	0.054693	-0.344297	-0.244430	0.00029	-0.00111	-0.00025
	0.046049	-0.339003	-0.244701	0.00029	-0.00111	-0.00023
652	-0.058941	0.439326	-0.223933	-0.00019	-0.00003	0.00026
	-0.067585	0.445047	-0.223936	-0.00019	-0.00004	0.00027
	-0.267238	0.451228	-0.227658	-0.00020	-0.00036	0.00028
	-0.275882	0.456949	-0.227661	-0.00020	-0.00037	0.00029
	0.020382	0.388848	-0.224250	-0.00016	0.00008	0.00013
	0.011738	0.394569	-0.224253	-0.00016	0.00007	0.00014
	-0.187916	0.400750	-0.227975	-0.00017	-0.00025	0.00015
	-0.196560	0.406471	-0.227979	-0.00017	-0.00026	0.00016
	0.183669	-0.308596	-0.237610	0.00027	0.00033	-0.00014
	0.175025	-0.302875	-0.237614	0.00027	0.00032	-0.00013
	-0.024629	-0.296694	-0.241336	0.00026	0.00000	-0.00012
	-0.033273	-0.290973	-0.241339	0.00026	-0.00001	-0.00011
	0.262991	-0.359074	-0.237927	0.00030	0.00044	-0.00027
	0.254347	-0.353353	-0.237931	0.00030	0.00043	-0.00026
	0.054693	-0.347172	-0.241653	0.00029	0.00011	-0.00025
	0.046050	-0.341451	-0.241656	0.00028	0.00010	-0.00024
653	-0.058940	0.441148	-0.224402	-0.00018	-0.00053	0.00026
	-0.067584	0.447111	-0.224248	-0.00018	-0.00054	0.00027
	-0.267238	0.453404	-0.223798	-0.00019	-0.00066	0.00028
	-0.275881	0.459366	-0.223644	-0.00019	-0.00067	0.00029
	0.020382	0.388415	-0.226395	-0.00015	-0.00042	0.00013
	0.011738	0.394378	-0.226241	-0.00015	-0.00043	0.00014
	-0.187915	0.400670	-0.225791	-0.00016	-0.00056	0.00015
	-0.196559	0.406633	-0.225637	-0.00016	-0.00057	0.00016

	0.183669	-0.308445	-0.239910	0.00026	0.00012	-0.00014
	0.175025	-0.302482	-0.239757	0.00026	0.00011	-0.00013
	-0.024629	-0.296190	-0.239306	0.00025	-0.00001	-0.00012
	-0.033272	-0.290227	-0.239153	0.00024	-0.00002	-0.00011
	0.262991	-0.361178	-0.241903	0.00029	0.00023	-0.00027
	0.254347	-0.355216	-0.241750	0.00029	0.00022	-0.00026
	0.054693	-0.348923	-0.241300	0.00028	0.00010	-0.00025
	0.046050	-0.342960	-0.241146	0.00027	0.00009	-0.00024
654	-0.058940	0.441465	-0.224521	-0.00018	0.00092	0.00026
	-0.067584	0.447464	-0.224345	-0.00018	0.00093	0.00027
	-0.267237	0.453772	-0.223291	-0.00019	0.00103	0.00028
	-0.275881	0.459771	-0.223115	-0.00019	0.00104	0.00029
	0.020382	0.388385	-0.226759	-0.00015	0.00088	0.00013
	0.011738	0.394384	-0.226583	-0.00015	0.00088	0.00014
	-0.187915	0.400691	-0.225529	-0.00016	0.00098	0.00015
	-0.196559	0.406690	-0.225353	-0.00016	0.00099	0.00016
	0.183669	-0.308452	-0.240413	0.00026	0.00075	-0.00014
	0.175025	-0.302453	-0.240237	0.00026	0.00076	-0.00013
	-0.024629	-0.296146	-0.239183	0.00025	0.00086	-0.00012
	-0.033272	-0.290147	-0.239007	0.00024	0.00087	-0.00011
	0.262991	-0.361533	-0.242651	0.00029	0.00071	-0.00027
	0.254347	-0.355534	-0.242475	0.00029	0.00071	-0.00026
	0.054693	-0.349226	-0.241421	0.00028	0.00081	-0.00025
	0.046050	-0.343227	-0.241245	0.00027	0.00082	-0.00024
655	-0.058922	0.492025	-0.250139	-0.00036	-0.00009	0.00025
	-0.067565	0.503935	-0.250291	-0.00037	-0.00010	0.00026
	-0.267215	0.513260	-0.251330	-0.00038	-0.00030	0.00027
	-0.275858	0.525169	-0.251481	-0.00038	-0.00031	0.00029
	0.020385	0.385117	-0.248233	-0.00026	-0.00002	0.00012
	0.011742	0.397026	-0.248384	-0.00027	-0.00003	0.00014
	-0.187908	0.406351	-0.249423	-0.00028	-0.00023	0.00014
	-0.196551	0.418260	-0.249574	-0.00029	-0.00024	0.00016
	0.183647	-0.312752	-0.240659	0.00036	0.00014	-0.00014
	0.175005	-0.300843	-0.240810	0.00035	0.00014	-0.00013
	-0.024646	-0.291518	-0.241849	0.00034	-0.00007	-0.00012
	-0.033289	-0.279608	-0.242000	0.00033	-0.00007	-0.00011
	0.262955	-0.419661	-0.238752	0.00045	0.00022	-0.00027
	0.254312	-0.407752	-0.238903	0.00044	0.00021	-0.00026
	0.054662	-0.398427	-0.239942	0.00043	0.00001	-0.00025
	0.046019	-0.386517	-0.240093	0.00042	0.00000	-0.00023
656	-0.058912	0.554576	-0.263810	-0.00046	-0.00011	0.00025
	-0.067553	0.572253	-0.264309	-0.00048	-0.00012	0.00026
	-0.267198	0.584534	-0.263497	-0.00049	-0.00023	0.00027
	-0.275840	0.602211	-0.263997	-0.00051	-0.00024	0.00029
	0.020385	0.395152	-0.258580	-0.00029	-0.00008	0.00012
	0.011743	0.412829	-0.259079	-0.00030	-0.00008	0.00014
	-0.187902	0.425110	-0.258267	-0.00032	-0.00020	0.00014
	-0.196543	0.442787	-0.258766	-0.00034	-0.00020	0.00016
	0.183628	-0.330158	-0.237210	0.00051	0.00001	-0.00014
	0.174987	-0.312481	-0.237709	0.00050	0.00000	-0.00013
	-0.024658	-0.300200	-0.236897	0.00048	-0.00011	-0.00012
	-0.033300	-0.282523	-0.237396	0.00047	-0.00012	-0.00011
	0.262925	-0.489581	-0.231979	0.00069	0.00004	-0.00027
	0.254284	-0.471905	-0.232479	0.00067	0.00004	-0.00026
	0.054639	-0.459623	-0.231667	0.00066	-0.00008	-0.00025
	0.045997	-0.441947	-0.232166	0.00064	-0.00008	-0.00023
657	-0.058901	0.632680	-0.281900	-0.00045	0.00010	0.00025
	-0.067542	0.656548	-0.283232	-0.00047	0.00010	0.00027
	-0.267182	0.672002	-0.284027	-0.00050	-0.00002	0.00027
	-0.275823	0.695870	-0.285359	-0.00052	-0.00002	0.00029
	0.020386	0.416864	-0.269004	-0.00021	0.00012	0.00012
	0.011745	0.440733	-0.270337	-0.00023	0.00012	0.00014
	-0.187895	0.456186	-0.271131	-0.00026	0.00001	0.00014
	-0.196536	0.480055	-0.272464	-0.00028	0.00000	0.00016
	0.183611	-0.359759	-0.226429	0.00066	0.00001	-0.00014
	0.174970	-0.335891	-0.227762	0.00064	0.00001	-0.00013
	-0.024670	-0.320437	-0.228556	0.00062	-0.00010	-0.00012
	-0.033311	-0.296569	-0.229889	0.00060	-0.00011	-0.00011
	0.262898	-0.575575	-0.213533	0.00090	0.00003	-0.00027
	0.254257	-0.551706	-0.214866	0.00088	0.00003	-0.00026
	0.054617	-0.536253	-0.215660	0.00086	-0.00008	-0.00025
	0.045976	-0.512384	-0.216993	0.00084	-0.00008	-0.00024
658	-0.058895	0.718888	-0.297113	-0.00067	-0.00020	0.00024
	-0.067536	0.748950	-0.299848	-0.00070	-0.00021	0.00025
	-0.267172	0.767563	-0.298958	-0.00075	-0.00045	0.00026
	-0.275813	0.797625	-0.301693	-0.00078	-0.00046	0.00027
	0.020388	0.446695	-0.271436	-0.00036	-0.00008	0.00012
	0.011747	0.476757	-0.274171	-0.00039	-0.00009	0.00013
	-0.187890	0.495370	-0.273281	-0.00045	-0.00033	0.00014
	-0.196531	0.525433	-0.276016	-0.00048	-0.00034	0.00015
	0.183604	-0.397457	-0.191704	0.00060	0.00019	-0.00013
	0.174963	-0.367394	-0.194439	0.00057	0.00018	-0.00011
	-0.024674	-0.348781	-0.193549	0.00052	-0.00006	-0.00011

	-0.033315	-0.318719	-0.196284	0.00049	-0.00007	-0.00009
	0.262886	-0.669650	-0.166027	0.00091	0.00031	-0.00025
	0.254245	-0.639587	-0.168762	0.00088	0.00030	-0.00023
	0.054608	-0.620974	-0.167872	0.00082	0.00006	-0.00023
	0.045967	-0.590912	-0.170607	0.00079	0.00005	-0.00021
659	-0.058954	0.787892	-0.301260	-0.00091	-0.00003	0.00023
	-0.067600	0.822670	-0.304818	-0.00095	-0.00004	0.00024
	-0.267260	0.843445	-0.290861	-0.00100	-0.00038	0.00025
	-0.275906	0.878223	-0.294419	-0.00104	-0.00039	0.00026
	0.020384	0.473029	-0.268125	-0.00050	0.00012	0.00011
	0.011737	0.507806	-0.271683	-0.00054	0.00011	0.00012
	-0.187922	0.528582	-0.257726	-0.00059	-0.00023	0.00013
	-0.196569	0.563360	-0.261284	-0.00063	-0.00025	0.00015
	0.183691	-0.429081	-0.163370	0.00070	0.00045	-0.00013
	0.175044	-0.394303	-0.166929	0.00066	0.00043	-0.00012
	-0.024615	-0.373528	-0.152971	0.00060	0.00009	-0.00010
	-0.033262	-0.338750	-0.156530	0.00056	0.00008	-0.00009
	0.263028	-0.743944	-0.130235	0.00110	0.00059	-0.00025
	0.254381	-0.709167	-0.133794	0.00107	0.00058	-0.00023
	0.054722	-0.688391	-0.119836	0.00101	0.00024	-0.00022
	0.046075	-0.653614	-0.123395	0.00097	0.00023	-0.00021
660	-0.121278	0.445876	-0.197829	-0.00024	-0.00034	0.00024
	-0.133418	0.452530	-0.197458	-0.00024	-0.00034	0.00026
	-0.334497	0.459078	-0.193259	-0.00023	-0.00048	0.00026
	-0.346637	0.465732	-0.192888	-0.00024	-0.00049	0.00028
	-0.010173	0.386964	-0.200650	-0.00020	-0.00025	0.00012
	-0.022313	0.393617	-0.200279	-0.00021	-0.00026	0.00013
	-0.223392	0.400166	-0.196080	-0.00020	-0.00040	0.00014
	-0.235532	0.406820	-0.195709	-0.00020	-0.00041	0.00015
	0.218302	-0.307738	-0.184692	0.00023	-0.00007	-0.00014
	0.206162	-0.301085	-0.184321	0.00023	-0.00007	-0.00012
	0.005083	-0.294536	-0.180122	0.00023	-0.00021	-0.00012
	-0.007057	-0.287883	-0.179751	0.00023	-0.00022	-0.00010
	0.329408	-0.366651	-0.187513	0.00027	0.00002	-0.00026
	0.317268	-0.359997	-0.187142	0.00026	0.00001	-0.00025
	0.116189	-0.353449	-0.182943	0.00027	-0.00013	-0.00024
	0.104049	-0.346795	-0.182572	0.00027	-0.00014	-0.00023
661	-0.144814	0.407293	-0.204819	-0.00009	-0.00005	0.00025
	-0.158273	0.407344	-0.204722	-0.00009	-0.00005	0.00026
	-0.359903	0.410685	-0.203328	-0.00009	-0.00013	0.00027
	-0.373363	0.410735	-0.203232	-0.00009	-0.00014	0.00028
	-0.021702	0.408473	-0.205700	-0.00010	0.00000	0.00012
	-0.035161	0.408524	-0.205604	-0.00010	0.00000	0.00013
	-0.236791	0.411864	-0.204209	-0.00009	-0.00008	0.00014
	-0.250251	0.411915	-0.204113	-0.00009	-0.00009	0.00016
	0.231398	-0.320962	-0.197381	0.00035	0.00011	-0.00014
	0.217939	-0.320911	-0.197285	0.00035	0.00010	-0.00012
	0.016308	-0.317571	-0.195891	0.00036	0.00002	-0.00012
	0.002849	-0.317520	-0.195794	0.00036	0.00002	-0.00010
	0.354510	-0.319783	-0.198262	0.00035	0.00016	-0.00026
	0.341051	-0.319732	-0.198166	0.00035	0.00015	-0.00025
	0.139420	-0.316391	-0.196772	0.00035	0.00007	-0.00024
	0.125961	-0.316341	-0.196675	0.00035	0.00006	-0.00023
662	-0.166113	0.392479	-0.193938	-0.00009	0.00007	0.00024
	-0.180763	0.386576	-0.194261	-0.00009	0.00006	0.00025
	-0.382908	0.386590	-0.199274	-0.00010	-0.00008	0.00026
	-0.397558	0.380687	-0.199597	-0.00009	-0.00009	0.00027
	-0.032141	0.447677	-0.191787	-0.00012	0.00015	0.00012
	-0.046791	0.441774	-0.192110	-0.00012	0.00014	0.00013
	-0.248936	0.441788	-0.197123	-0.00013	0.00001	0.00014
	-0.263586	0.435885	-0.197446	-0.00013	0.00000	0.00015
	0.243224	-0.352499	-0.167285	0.00040	0.00035	-0.00014
	0.228574	-0.358402	-0.167608	0.00041	0.00034	-0.00012
	0.026429	-0.358388	-0.172621	0.00040	0.00021	-0.00012
	0.011779	-0.364291	-0.172944	0.00040	0.00020	-0.00010
	0.377196	-0.297301	-0.165133	0.00037	0.00044	-0.00026
	0.362545	-0.303204	-0.165456	0.00038	0.00043	-0.00025
	0.160401	-0.303190	-0.170469	0.00037	0.00029	-0.00024
	0.145751	-0.309093	-0.170792	0.00037	0.00028	-0.00023
663	-0.208443	0.453411	-0.194484	-0.00020	-0.00034	0.00024
	-0.225467	0.461041	-0.193578	-0.00021	-0.00035	0.00025
	-0.428598	0.468084	-0.180203	-0.00021	-0.00054	0.00026
	-0.445623	0.475713	-0.179297	-0.00022	-0.00055	0.00027
	-0.052886	0.385617	-0.200850	-0.00017	-0.00019	0.00012
	-0.069911	0.393247	-0.199945	-0.00017	-0.00021	0.00013
	-0.273041	0.400289	-0.186569	-0.00017	-0.00040	0.00014
	-0.290066	0.407919	-0.185664	-0.00018	-0.00041	0.00015
	0.266775	-0.307632	-0.151236	0.00022	0.00013	-0.00013
	0.249750	-0.300002	-0.150331	0.00021	0.00011	-0.00012
	0.046620	-0.292960	-0.136955	0.00021	-0.00008	-0.00011
	0.029595	-0.285330	-0.136050	0.00020	-0.00009	-0.00010
	0.422332	-0.375426	-0.157603	0.00025	0.00027	-0.00025
	0.405307	-0.367797	-0.156697	0.00025	0.00026	-0.00024



	0.202176	-0.360754	-0.143322	0.00025	0.00007	-0.00023
	0.185152	-0.353124	-0.142416	0.00024	0.00005	-0.00022
664	-0.231982	0.411604	-0.190201	-0.00016	-0.00014	0.00024
	-0.250327	0.412630	-0.190093	-0.00016	-0.00015	0.00026
	-0.454028	0.416393	-0.189148	-0.00017	-0.00029	0.00027
	-0.472373	0.417420	-0.189040	-0.00017	-0.00030	0.00028
	-0.064401	0.403903	-0.191288	-0.00015	-0.00003	0.00012
	-0.082747	0.404929	-0.191179	-0.00015	-0.00004	0.00013
	-0.286447	0.408692	-0.190235	-0.00016	-0.00018	0.00014
	-0.304793	0.409719	-0.190126	-0.00016	-0.00019	0.00015
	0.279918	-0.317559	-0.146013	0.00026	0.00021	-0.00014
	0.261572	-0.316533	-0.145904	0.00025	0.00020	-0.00012
	0.057872	-0.312770	-0.144960	0.00025	0.00006	-0.00012
	0.039526	-0.311743	-0.144851	0.00024	0.00005	-0.00010
	0.447498	-0.325260	-0.147099	0.00026	0.00032	-0.00026
	0.429152	-0.324234	-0.146991	0.00026	0.00031	-0.00025
	0.225452	-0.320471	-0.146046	0.00025	0.00017	-0.00024
	0.207107	-0.319444	-0.145938	0.00025	0.00016	-0.00023
665	-0.251202	0.392931	-0.178926	-0.00011	-0.00012	0.00023
	-0.270884	0.388022	-0.179624	-0.00011	-0.00014	0.00025
	-0.474678	0.388493	-0.190802	-0.00014	-0.00032	0.00025
	-0.494360	0.383584	-0.191501	-0.00014	-0.00033	0.00027
	-0.073308	0.439251	-0.174492	-0.00011	0.00003	0.00011
	-0.092989	0.434342	-0.175191	-0.00011	0.00001	0.00013
	-0.296784	0.434813	-0.186369	-0.00014	-0.00017	0.00013
	-0.316465	0.429904	-0.187067	-0.00014	-0.00018	0.00015
	0.292062	-0.346317	-0.118924	0.00029	0.00036	-0.00013
	0.272380	-0.351226	-0.119622	0.00029	0.00034	-0.00012
	0.068586	-0.350754	-0.130800	0.00026	0.00016	-0.00011
	0.048904	-0.355664	-0.131498	0.00026	0.00015	-0.00010
	0.469956	-0.299997	-0.114490	0.00029	0.00051	-0.00025
	0.450275	-0.304906	-0.115189	0.00029	0.00049	-0.00024
	0.246480	-0.304435	-0.126366	0.00026	0.00031	-0.00023
	0.226798	-0.309344	-0.127065	0.00026	0.00030	-0.00022
666	0.185477	0.482640	-0.089069	-0.00051	0.00020	0.00030
	0.189263	0.469474	-0.089583	-0.00050	0.00021	0.00032
	-0.049236	0.465561	-0.117100	-0.00050	-0.00005	0.00033
	-0.045450	0.452395	-0.117614	-0.00048	-0.00004	0.00034
	0.150962	0.606692	-0.083444	-0.00065	0.00017	0.00015
	0.154748	0.593526	-0.083958	-0.00064	0.00017	0.00016
	-0.083751	0.589613	-0.111475	-0.00063	-0.00008	0.00017
	-0.079965	0.576447	-0.111989	-0.00062	-0.00008	0.00019
	0.079183	-0.476110	-0.157546	0.00048	0.00009	-0.00018
	0.082969	-0.489276	-0.158060	0.00050	0.00009	-0.00016
	-0.155530	-0.493189	-0.185577	0.00050	-0.00017	-0.00015
	-0.151744	-0.506355	-0.186092	0.00051	-0.00016	-0.00014
	0.044668	-0.352059	-0.151921	0.00035	0.00005	-0.00033
	0.048454	-0.365225	-0.152435	0.00036	0.00005	-0.00032
	-0.190045	-0.369138	-0.179952	0.00037	-0.00020	-0.00031
	-0.186259	-0.382304	-0.180466	0.00038	-0.00020	-0.00029
667	0.185511	0.480640	-0.100786	-0.00052	0.00000	0.00030
	0.189296	0.469202	-0.101532	-0.00051	0.00000	0.00032
	-0.049209	0.466313	-0.103053	-0.00051	0.00000	0.00033
	-0.045424	0.454875	-0.103799	-0.00049	0.00000	0.00035
	0.150989	0.588386	-0.092950	-0.00064	0.00000	0.00014
	0.154775	0.576948	-0.093696	-0.00063	0.00000	0.00016
	-0.083731	0.574059	-0.095218	-0.00063	0.00000	0.00017
	-0.079946	0.562621	-0.095964	-0.00061	0.00000	0.00019
	0.079211	-0.460839	-0.172435	0.00047	0.00000	-0.00018
	0.082996	-0.472277	-0.173181	0.00048	0.00000	-0.00017
	-0.155510	-0.475166	-0.174702	0.00049	0.00000	-0.00015
	-0.151724	-0.486604	-0.175449	0.00050	0.00000	-0.00013
	0.044689	-0.353093	-0.164599	0.00035	0.00000	-0.00034
	0.048474	-0.364531	-0.165346	0.00036	0.00000	-0.00032
	-0.190031	-0.367420	-0.166867	0.00037	0.00000	-0.00031
	-0.186246	-0.378858	-0.167613	0.00038	0.00000	-0.00029
668	0.185573	0.478185	-0.112145	-0.00050	0.00018	0.00030
	0.189359	0.468485	-0.113118	-0.00049	0.00018	0.00032
	-0.049141	0.466717	-0.088552	-0.00049	-0.00008	0.00032
	-0.045356	0.457017	-0.089525	-0.00048	-0.00008	0.00034
	0.151040	0.569509	-0.102051	-0.00060	0.00014	0.00014
	0.154826	0.559809	-0.103024	-0.00059	0.00015	0.00016
	-0.083674	0.558041	-0.078458	-0.00059	-0.00012	0.00017
	-0.079889	0.548341	-0.079430	-0.00058	-0.00011	0.00018
	0.079252	-0.446062	-0.187659	0.00045	0.00007	-0.00018
	0.083037	-0.455761	-0.188632	0.00046	0.00007	-0.00016
	-0.155462	-0.457529	-0.164066	0.00047	-0.00019	-0.00015
	-0.151677	-0.467229	-0.165039	0.00048	-0.00018	-0.00014
	0.044719	-0.354738	-0.177565	0.00035	0.00004	-0.00033
	0.048505	-0.364438	-0.178538	0.00036	0.00004	-0.00032
	-0.189995	-0.366206	-0.153972	0.00037	-0.00022	-0.00031
	-0.186210	-0.375905	-0.154944	0.00038	-0.00022	-0.00029

669	0.158205	0.482651	-0.136683	0.00000	0.00019	0.00030
	0.160462	0.469485	-0.136137	0.00000	0.00019	0.00032
	-0.078751	0.465579	-0.163133	0.00000	-0.00007	0.00032
	-0.076494	0.452413	-0.162587	0.00000	-0.00007	0.00034
	0.138042	0.606698	-0.141733	0.00000	0.00017	0.00014
	0.140299	0.593532	-0.141187	0.00000	0.00017	0.00016
	-0.098913	0.589626	-0.168183	0.00000	-0.00009	0.00017
	-0.096656	0.576460	-0.167637	0.00000	-0.00009	0.00018
	0.095802	-0.476066	-0.113502	0.00000	0.00012	-0.00018
	0.098059	-0.489232	-0.112957	0.00000	0.00012	-0.00016
	-0.141154	-0.493138	-0.139953	0.00000	-0.00014	-0.00015
	-0.138897	-0.506304	-0.139407	0.00000	-0.00014	-0.00014
	0.075639	-0.352019	-0.118553	0.00000	0.00010	-0.00033
	0.077896	-0.365185	-0.118007	0.00000	0.00010	-0.00031
	-0.161316	-0.369091	-0.145003	0.00000	-0.00016	-0.00031
	-0.159059	-0.382257	-0.144457	0.00000	-0.00016	-0.00029
670	0.157807	0.478239	-0.158620	0.00000	0.00014	0.00030
	0.160068	0.468539	-0.158549	0.00000	0.00015	0.00032
	-0.078960	0.466775	-0.133671	0.00000	-0.00012	0.00032
	-0.076699	0.457074	-0.133600	0.00000	-0.00012	0.00034
	0.137591	0.569559	-0.159023	0.00000	0.00012	0.00015
	0.139853	0.559858	-0.158952	0.00000	0.00013	0.00016
	-0.099175	0.558094	-0.134074	0.00000	-0.00014	0.00017
	-0.096914	0.548394	-0.134003	0.00000	-0.00014	0.00018
	0.095203	-0.445976	-0.144388	0.00000	0.00008	-0.00018
	0.097464	-0.455677	-0.144317	0.00000	0.00008	-0.00016
	-0.141564	-0.457441	-0.119439	0.00000	-0.00019	-0.00016
	-0.139303	-0.467142	-0.119368	0.00000	-0.00018	-0.00014
	0.074988	-0.354657	-0.144791	0.00000	0.00006	-0.00034
	0.077249	-0.364358	-0.144720	0.00000	0.00006	-0.00032
	-0.161779	-0.366121	-0.119842	0.00000	-0.00021	-0.00031
	-0.159518	-0.375822	-0.119771	0.00000	-0.00020	-0.00030
671	0.110660	0.482643	-0.182198	-0.00051	0.00013	0.00031
	0.111383	0.469477	-0.180591	-0.00050	0.00013	0.00032
	-0.128245	0.465597	-0.207170	-0.00048	-0.00012	0.00033
	-0.127521	0.452431	-0.205562	-0.00047	-0.00012	0.00035
	0.104893	0.606684	-0.197917	-0.00064	0.00012	0.00015
	0.105617	0.593518	-0.196310	-0.00063	0.00012	0.00017
	-0.134011	0.589638	-0.222889	-0.00062	-0.00013	0.00018
	-0.133288	0.576472	-0.221282	-0.00060	-0.00013	0.00019
	0.130541	-0.476034	-0.070971	0.00050	0.00016	-0.00017
	0.131265	-0.489200	-0.069364	0.00051	0.00016	-0.00016
	-0.108363	-0.493080	-0.095943	0.00053	-0.00009	-0.00015
	-0.107640	-0.506247	-0.094336	0.00054	-0.00009	-0.00013
	0.124775	-0.351993	-0.086690	0.00037	0.00015	-0.00033
	0.125498	-0.365159	-0.085083	0.00038	0.00015	-0.00031
	-0.114130	-0.369039	-0.111662	0.00039	-0.00010	-0.00030
	-0.113407	-0.382205	-0.110055	0.00040	-0.00010	-0.00029
672	0.110752	0.480051	-0.193489	-0.00050	0.00000	0.00030
	0.111477	0.468624	-0.192124	-0.00049	0.00000	0.00032
	-0.128071	0.465885	-0.192364	-0.00048	0.00000	0.00033
	-0.127346	0.454457	-0.191000	-0.00047	0.00000	0.00034
	0.104982	0.587685	-0.206781	-0.00062	0.00000	0.00014
	0.105707	0.576257	-0.205416	-0.00061	0.00000	0.00016
	-0.133841	0.573518	-0.205656	-0.00060	0.00000	0.00017
	-0.133116	0.562090	-0.204291	-0.00059	0.00000	0.00019
	0.130692	-0.459693	-0.086601	0.00050	0.00000	-0.00018
	0.131417	-0.471120	-0.085236	0.00051	0.00000	-0.00016
	-0.108132	-0.473860	-0.085476	0.00052	0.00000	-0.00015
	-0.107407	-0.485287	-0.084111	0.00053	0.00000	-0.00014
	0.124922	-0.352060	-0.099892	0.00038	0.00000	-0.00034
	0.125647	-0.363487	-0.098527	0.00039	0.00000	-0.00032
	-0.113901	-0.366227	-0.098767	0.00040	0.00000	-0.00031
	-0.113176	-0.377654	-0.097403	0.00041	0.00000	-0.00029
673	0.110866	0.478393	-0.204724	-0.00049	0.00011	0.00030
	0.111593	0.468693	-0.203607	-0.00048	0.00011	0.00032
	-0.127899	0.466876	-0.178216	-0.00048	-0.00015	0.00032
	-0.127173	0.457176	-0.177100	-0.00046	-0.00015	0.00034
	0.105095	0.569706	-0.215630	-0.00060	0.00010	0.00014
	0.105821	0.560007	-0.214513	-0.00059	0.00010	0.00016
	-0.133671	0.558189	-0.189122	-0.00058	-0.00015	0.00017
	-0.132945	0.548490	-0.188005	-0.00057	-0.00015	0.00018
	0.130873	-0.445701	-0.101663	0.00048	0.00014	-0.00018
	0.131599	-0.455400	-0.100547	0.00049	0.00014	-0.00016
	-0.107893	-0.457218	-0.075156	0.00049	-0.00012	-0.00016
	-0.107167	-0.466917	-0.074039	0.00050	-0.00012	-0.00014
	0.125101	-0.354387	-0.112569	0.00037	0.00013	-0.00034
	0.125827	-0.364086	-0.111452	0.00038	0.00013	-0.00032
	-0.113665	-0.365904	-0.086061	0.00039	-0.00013	-0.00031
	-0.112938	-0.375604	-0.084944	0.00040	-0.00013	-0.00030
674	0.276574	0.669653	-0.178279	-0.00059	0.00020	0.00033
	0.284060	0.634854	-0.179453	-0.00057	0.00020	0.00035
	0.003562	0.618938	-0.198787	-0.00056	0.00008	0.00036

	0.011048	0.584139	-0.199961	-0.00054	0.00008	0.00038
	0.205737	1.004495	-0.165902	-0.00079	0.00018	0.00016
	0.213223	0.969696	-0.167076	-0.00077	0.00018	0.00018
	-0.067274	0.953780	-0.186411	-0.00075	0.00005	0.00019
	-0.059789	0.918981	-0.187585	-0.00074	0.00006	0.00021
	0.057160	-0.796718	-0.248552	0.00032	0.00012	-0.00020
	0.064646	-0.831517	-0.249726	0.00034	0.00013	-0.00019
	-0.215851	-0.847433	-0.269060	0.00036	0.00000	-0.00018
	-0.208366	-0.882232	-0.270234	0.00037	0.00000	-0.00016
	-0.013676	-0.461876	-0.236175	0.00013	0.00010	-0.00038
	-0.006191	-0.496675	-0.237349	0.00015	0.00010	-0.00036
	-0.286688	-0.512591	-0.256684	0.00016	-0.00002	-0.00035
	-0.279203	-0.547390	-0.257858	0.00018	-0.00002	-0.00033
675	0.276571	0.614810	-0.168222	-0.00062	-0.00002	0.00034
	0.284056	0.588736	-0.168842	-0.00061	-0.00002	0.00036
	0.003560	0.577759	-0.185147	-0.00060	-0.00009	0.00037
	0.011045	0.551686	-0.185767	-0.00059	-0.00009	0.00039
	0.205735	0.865230	-0.161550	-0.00077	-0.00002	0.00016
	0.213220	0.839156	-0.162170	-0.00076	-0.00002	0.00018
	-0.067276	0.828179	-0.178476	-0.00075	-0.00009	0.00019
	-0.059791	0.802106	-0.179096	-0.00074	-0.00009	0.00021
	0.057160	-0.679471	-0.215314	0.00018	-0.00009	-0.00021
	0.064645	-0.705544	-0.215934	0.00020	-0.00009	-0.00019
	-0.215851	-0.716521	-0.232239	0.00020	-0.00015	-0.00018
	-0.208366	-0.742595	-0.232859	0.00022	-0.00015	-0.00016
	-0.013676	-0.429051	-0.208642	0.00003	-0.00009	-0.00039
	-0.006191	-0.455124	-0.209262	0.00005	-0.00009	-0.00037
	-0.286687	-0.466101	-0.225567	0.00006	-0.00016	-0.00036
	-0.279202	-0.492175	-0.226188	0.00007	-0.00016	-0.00034
676	0.276571	0.580753	-0.129571	-0.00042	-0.00019	0.00034
	0.284056	0.562278	-0.129981	-0.00041	-0.00019	0.00036
	0.003559	0.555602	-0.146337	-0.00046	-0.00024	0.00037
	0.011044	0.537127	-0.146747	-0.00045	-0.00023	0.00039
	0.205736	0.757636	-0.125263	-0.00052	-0.00024	0.00016
	0.213221	0.739161	-0.125673	-0.00051	-0.00024	0.00018
	-0.067276	0.732484	-0.142028	-0.00055	-0.00029	0.00019
	-0.059791	0.714009	-0.142438	-0.00054	-0.00028	0.00021
	0.057161	-0.591072	-0.173864	0.00021	0.00013	-0.00021
	0.064646	-0.609547	-0.174274	0.00022	0.00014	-0.00019
	-0.215851	-0.616224	-0.190629	0.00017	0.00009	-0.00018
	-0.208366	-0.634699	-0.191040	0.00018	0.00009	-0.00016
	-0.013674	-0.414190	-0.169556	0.00011	0.00008	-0.00039
	-0.006189	-0.432665	-0.169966	0.00012	0.00009	-0.00037
	-0.286686	-0.439342	-0.186321	0.00008	0.00004	-0.00036
	-0.279201	-0.457816	-0.186731	0.00009	0.00004	-0.00034
677	0.276572	0.563223	-0.126079	-0.00039	0.00017	0.00034
	0.284056	0.554878	-0.127605	-0.00039	0.00017	0.00036
	0.003562	0.553868	-0.096735	-0.00033	0.00005	0.00037
	0.011046	0.545523	-0.098261	-0.00033	0.00005	0.00039
	0.205737	0.642089	-0.112485	-0.00043	0.00016	0.00016
	0.213222	0.633744	-0.114011	-0.00043	0.00016	0.00018
	-0.067273	0.632733	-0.083141	-0.00037	0.00005	0.00019
	-0.059788	0.624388	-0.084667	-0.00037	0.00005	0.00021
	0.057162	-0.501015	-0.205378	0.00001	0.00001	-0.00021
	0.064647	-0.509360	-0.206904	0.00001	0.00001	-0.00019
	-0.215848	-0.510371	-0.176034	0.00007	-0.00010	-0.00018
	-0.208363	-0.518715	-0.177560	0.00007	-0.00010	-0.00016
	-0.013672	-0.422149	-0.191784	-0.00003	0.00000	-0.00039
	-0.006188	-0.430494	-0.193310	-0.00003	0.00000	-0.00037
	-0.286682	-0.431505	-0.162440	0.00003	-0.00011	-0.00036
	-0.279198	-0.439850	-0.163966	0.00003	-0.00011	-0.00034
678	0.276595	0.571443	-0.193121	-0.00042	0.00023	0.00034
	0.284079	0.569289	-0.193456	-0.00042	0.00023	0.00036
	0.003585	0.573014	-0.184417	-0.00041	0.00014	0.00037
	0.011070	0.570860	-0.184752	-0.00041	0.00014	0.00039
	0.205749	0.590387	-0.190148	-0.00044	0.00021	0.00016
	0.213234	0.588233	-0.190483	-0.00044	0.00021	0.00018
	-0.067260	0.591958	-0.181443	-0.00042	0.00013	0.00019
	-0.059775	0.589804	-0.181778	-0.00042	0.00013	0.00021
	0.057149	-0.466170	-0.212394	-0.00003	0.00017	-0.00021
	0.064633	-0.468323	-0.212729	-0.00003	0.00017	-0.00019
	-0.215861	-0.464598	-0.203689	-0.00002	0.00008	-0.00018
	-0.208376	-0.466752	-0.204025	-0.00002	0.00009	-0.00016
	-0.013697	-0.447226	-0.209420	-0.00005	0.00015	-0.00039
	-0.006212	-0.449379	-0.209756	-0.00005	0.00015	-0.00037
	-0.286706	-0.445654	-0.200716	-0.00003	0.00007	-0.00036
	-0.279221	-0.447808	-0.201051	-0.00003	0.00007	-0.00034
679	0.276604	0.612366	-0.212148	-0.00035	0.00001	0.00034
	0.284090	0.618936	-0.212249	-0.00035	0.00001	0.00036
	0.003595	0.626592	-0.205807	-0.00036	-0.00011	0.00037
	0.011080	0.633162	-0.205908	-0.00036	-0.00011	0.00039
	0.205753	0.546860	-0.211773	-0.00033	-0.00002	0.00016
	0.213238	0.553431	-0.211875	-0.00033	-0.00001	0.00018

	-0.067256	0.561086	-0.205432	-0.00034	-0.00014	0.00019
	-0.059771	0.567657	-0.205534	-0.00034	-0.00014	0.00021
	0.057138	-0.443654	-0.235017	0.00003	0.00010	-0.00021
	0.064623	-0.437084	-0.235119	0.00003	0.00011	-0.00019
	-0.215871	-0.429429	-0.228676	0.00002	-0.00002	-0.00018
	-0.208386	-0.422858	-0.228778	0.00002	-0.00002	-0.00016
	-0.013713	-0.509160	-0.234643	0.00005	0.00008	-0.00038
	-0.006228	-0.502589	-0.234744	0.00005	0.00008	-0.00037
	-0.286723	-0.494934	-0.228302	0.00004	-0.00005	-0.00036
	-0.279237	-0.488364	-0.228403	0.00004	-0.00004	-0.00034
680	0.276607	0.678277	-0.212549	-0.00035	0.00002	0.00034
	0.284093	0.693010	-0.212312	-0.00035	0.00002	0.00036
	0.003598	0.705262	-0.208827	-0.00036	-0.00010	0.00037
	0.011084	0.719995	-0.208590	-0.00036	-0.00010	0.00039
	0.205753	0.533766	-0.215429	-0.00030	-0.00001	0.00016
	0.213239	0.548499	-0.215192	-0.00030	0.00000	0.00018
	-0.067256	0.560750	-0.211707	-0.00031	-0.00012	0.00019
	-0.059770	0.575483	-0.211470	-0.00032	-0.00012	0.00021
	0.057132	-0.451140	-0.243130	0.00007	0.00010	-0.00021
	0.064618	-0.436407	-0.242893	0.00006	0.00010	-0.00019
	-0.215877	-0.424155	-0.239408	0.00005	-0.00002	-0.00018
	-0.208391	-0.409422	-0.239171	0.00005	-0.00001	-0.00016
	-0.013723	-0.595651	-0.246010	0.00011	0.00007	-0.00039
	-0.006236	-0.580918	-0.245774	0.00011	0.00008	-0.00037
	-0.286731	-0.568667	-0.242289	0.00010	-0.00004	-0.00036
	-0.279245	-0.553934	-0.242052	0.00010	-0.00004	-0.00034
681	0.276605	0.759822	-0.208158	-0.00034	0.00004	0.00034
	0.284092	0.782155	-0.207499	-0.00035	0.00004	0.00036
	0.003597	0.798710	-0.205527	-0.00036	-0.00008	0.00037
	0.011084	0.821044	-0.204867	-0.00036	-0.00008	0.00039
	0.205751	0.541753	-0.214962	-0.00027	0.00001	0.00016
	0.213238	0.564087	-0.214303	-0.00027	0.00002	0.00018
	-0.067258	0.580641	-0.212331	-0.00028	-0.00010	0.00019
	-0.059771	0.602975	-0.211671	-0.00029	-0.00010	0.00021
	0.057129	-0.478316	-0.248788	0.00012	0.00011	-0.00021
	0.064616	-0.455982	-0.248129	0.00011	0.00012	-0.00019
	-0.215880	-0.439428	-0.246157	0.00011	0.00000	-0.00018
	-0.208393	-0.417094	-0.245497	0.00010	0.00000	-0.00016
	-0.013726	-0.696385	-0.255592	0.00020	0.00009	-0.00039
	-0.006239	-0.674051	-0.254932	0.00019	0.00009	-0.00037
	-0.286734	-0.657496	-0.252961	0.00018	-0.00003	-0.00036
	-0.279248	-0.635163	-0.252301	0.00018	-0.00002	-0.00034
682	0.276606	0.863755	-0.197663	-0.00036	0.00004	0.00034
	0.284093	0.894253	-0.196302	-0.00037	0.00004	0.00036
	0.003597	0.915436	-0.194390	-0.00038	-0.00009	0.00037
	0.011084	0.945934	-0.193029	-0.00039	-0.00009	0.00039
	0.205750	0.566680	-0.210938	-0.00025	0.00002	0.00016
	0.213237	0.597178	-0.209577	-0.00026	0.00002	0.00018
	-0.067259	0.618362	-0.207664	-0.00027	-0.00011	0.00019
	-0.059772	0.648860	-0.206303	-0.00028	-0.00011	0.00021
	0.057125	-0.523872	-0.257943	0.00018	0.00011	-0.00021
	0.064612	-0.493374	-0.256582	0.00017	0.00011	-0.00019
	-0.215884	-0.472191	-0.254670	0.00015	-0.00002	-0.00018
	-0.208397	-0.441693	-0.253309	0.00014	-0.00001	-0.00016
	-0.013732	-0.820947	-0.271218	0.00029	0.00009	-0.00039
	-0.006244	-0.790448	-0.269857	0.00028	0.00009	-0.00037
	-0.286740	-0.769265	-0.267944	0.00026	-0.00004	-0.00036
	-0.279253	-0.738767	-0.266583	0.00025	-0.00003	-0.00034
683	0.276603	0.979865	-0.173830	-0.00048	-0.00005	0.00034
	0.284091	1.018528	-0.171330	-0.00049	-0.00005	0.00036
	0.003594	1.044343	-0.165449	-0.00053	-0.00018	0.00037
	0.011081	1.083006	-0.162948	-0.00054	-0.00018	0.00039
	0.205747	0.603787	-0.197540	-0.00033	-0.00007	0.00016
	0.213234	0.642450	-0.195039	-0.00034	-0.00007	0.00018
	-0.067263	0.668265	-0.189158	-0.00038	-0.00019	0.00019
	-0.059775	0.706928	-0.186658	-0.00039	-0.00019	0.00021
	0.057122	-0.581615	-0.270047	0.00015	0.00002	-0.00021
	0.064610	-0.542952	-0.267547	0.00013	0.00002	-0.00019
	-0.215887	-0.517137	-0.261666	0.00010	-0.00011	-0.00018
	-0.208400	-0.478473	-0.259165	0.00009	-0.00011	-0.00016
	-0.013734	-0.957693	-0.293757	0.00030	0.00000	-0.00039
	-0.006246	-0.919030	-0.291256	0.00028	0.00000	-0.00037
	-0.286743	-0.893215	-0.285375	0.00025	-0.00013	-0.00036
	-0.279256	-0.854551	-0.282875	0.00024	-0.00013	-0.00034
684	0.276602	1.075260	-0.144135	-0.00064	-0.00002	0.00034
	0.284089	1.120212	-0.140586	-0.00066	-0.00002	0.00035
	0.003593	1.149596	-0.122497	-0.00067	-0.00014	0.00036
	0.011080	1.194548	-0.118948	-0.00069	-0.00014	0.00038
	0.205746	0.638346	-0.177347	-0.00040	-0.00002	0.00016
	0.213233	0.683298	-0.173798	-0.00042	-0.00002	0.00018
	-0.067263	0.712682	-0.155709	-0.00043	-0.00014	0.00019
	-0.059776	0.757634	-0.152160	-0.00045	-0.00014	0.00021
	0.057122	-0.632062	-0.275743	0.00032	0.00003	-0.00021

	0.064610	-0.587110	-0.272194	0.00030	0.00003	-0.00019
	-0.215887	-0.557727	-0.254105	0.00029	-0.00009	-0.00018
	-0.208399	-0.512774	-0.250556	0.00027	-0.00009	-0.00016
	-0.013734	-1.068976	-0.308955	0.00056	0.00003	-0.00038
	-0.006246	-1.024024	-0.305406	0.00054	0.00003	-0.00036
	-0.286743	-0.994640	-0.287317	0.00053	-0.00009	-0.00035
	-0.279255	-0.949688	-0.283768	0.00051	-0.00009	-0.00033
685	0.218772	0.571581	-0.090179	-0.00033	-0.00009	0.00035
	0.223151	0.556212	-0.090681	-0.00032	-0.00008	0.00037
	-0.058739	0.551282	-0.117919	-0.00037	-0.00027	0.00038
	-0.054360	0.535913	-0.118421	-0.00036	-0.00026	0.00040
	0.177986	0.718414	-0.084640	-0.00043	-0.00014	0.00017
	0.182365	0.703045	-0.085142	-0.00042	-0.00013	0.00019
	-0.099525	0.698115	-0.112380	-0.00047	-0.00032	0.00020
	-0.095146	0.682746	-0.112882	-0.00046	-0.00031	0.00022
	0.092387	-0.559681	-0.157805	0.00044	0.00017	-0.00022
	0.096766	-0.575050	-0.158307	0.00045	0.00017	-0.00020
	-0.185124	-0.579980	-0.185545	0.00040	-0.00001	-0.00019
	-0.180745	-0.595349	-0.186047	0.00041	-0.00001	-0.00017
	0.051601	-0.412848	-0.152267	0.00034	0.00012	-0.00040
	0.055980	-0.428217	-0.152769	0.00035	0.00012	-0.00038
	-0.225910	-0.433147	-0.180006	0.00030	-0.00006	-0.00037
	-0.221531	-0.448516	-0.180508	0.00031	-0.00006	-0.00035
686	0.218765	0.567423	-0.101327	-0.00049	0.00017	0.00034
	0.223143	0.554022	-0.102066	-0.00048	0.00017	0.00036
	-0.058746	0.550199	-0.103566	-0.00047	-0.00010	0.00038
	-0.054367	0.536798	-0.104305	-0.00046	-0.00010	0.00040
	0.177982	0.695212	-0.093493	-0.00060	0.00015	0.00016
	0.182361	0.681811	-0.094231	-0.00059	0.00015	0.00018
	-0.099529	0.677987	-0.095732	-0.00058	-0.00012	0.00020
	-0.095150	0.664586	-0.096470	-0.00057	-0.00012	0.00022
	0.092391	-0.541433	-0.172755	0.00045	0.00011	-0.00022
	0.096769	-0.554834	-0.173494	0.00046	0.00011	-0.00020
	-0.185120	-0.558657	-0.174994	0.00047	-0.00016	-0.00018
	-0.180741	-0.572058	-0.175733	0.00048	-0.00015	-0.00016
	0.051608	-0.413645	-0.164921	0.00034	0.00010	-0.00040
	0.055987	-0.427045	-0.165660	0.00035	0.00010	-0.00038
	-0.225903	-0.430869	-0.167160	0.00035	-0.00017	-0.00036
	-0.221524	-0.444270	-0.167899	0.00037	-0.00017	-0.00035
687	0.218764	0.564639	-0.113168	-0.00038	0.00023	0.00035
	0.223142	0.553207	-0.114128	-0.00037	0.00023	0.00037
	-0.058747	0.550486	-0.089733	-0.00034	0.00002	0.00038
	-0.054368	0.539054	-0.090694	-0.00033	0.00002	0.00040
	0.177981	0.673380	-0.103125	-0.00047	0.00022	0.00017
	0.182360	0.661948	-0.104085	-0.00046	0.00022	0.00019
	-0.099529	0.659227	-0.079691	-0.00042	0.00001	0.00020
	-0.095151	0.647795	-0.080651	-0.00041	0.00001	0.00022
	0.092391	-0.524552	-0.187869	0.00038	0.00009	-0.00022
	0.096770	-0.535984	-0.188830	0.00039	0.00009	-0.00020
	-0.185120	-0.538705	-0.164435	0.00042	-0.00012	-0.00019
	-0.180741	-0.550137	-0.165395	0.00043	-0.00012	-0.00017
	0.051609	-0.415811	-0.177826	0.00029	0.00008	-0.00040
	0.055987	-0.427243	-0.178787	0.00030	0.00008	-0.00038
	-0.225902	-0.429964	-0.154392	0.00034	-0.00013	-0.00037
	-0.221524	-0.441396	-0.155353	0.00035	-0.00013	-0.00035
688	0.186619	0.571579	-0.137115	-0.00054	0.00014	0.00034
	0.189263	0.556210	-0.136569	-0.00053	0.00015	0.00036
	-0.093412	0.551280	-0.163535	-0.00051	-0.00009	0.00037
	-0.090767	0.535911	-0.162989	-0.00050	-0.00009	0.00038
	0.162613	0.718410	-0.142159	-0.00066	0.00012	0.00016
	0.165258	0.703041	-0.141613	-0.00065	0.00012	0.00018
	-0.117417	0.698111	-0.168579	-0.00063	-0.00011	0.00019
	-0.114772	0.682742	-0.168033	-0.00062	-0.00011	0.00021
	0.111939	-0.559679	-0.113894	0.00048	0.00007	-0.00022
	0.114583	-0.575048	-0.113348	0.00049	0.00008	-0.00020
	-0.168092	-0.579978	-0.140314	0.00051	-0.00016	-0.00019
	-0.165447	-0.595347	-0.139768	0.00052	-0.00016	-0.00017
	0.087934	-0.412848	-0.118938	0.00036	0.00005	-0.00039
	0.090578	-0.428217	-0.118392	0.00037	0.00005	-0.00037
	-0.192097	-0.433147	-0.145358	0.00039	-0.00018	-0.00036
	-0.189452	-0.448516	-0.144812	0.00040	-0.00018	-0.00035
689	0.186614	0.564640	-0.159278	-0.00053	0.00017	0.00036
	0.189258	0.553208	-0.159206	-0.00052	0.00017	0.00038
	-0.093417	0.550486	-0.134301	-0.00051	-0.00007	0.00040
	-0.090772	0.539054	-0.134228	-0.00050	-0.00006	0.00041
	0.162609	0.673383	-0.159684	-0.00065	0.00015	0.00018
	0.165254	0.661951	-0.159612	-0.00064	0.00015	0.00020
	-0.117421	0.659230	-0.134707	-0.00064	-0.00009	0.00021
	-0.114777	0.647797	-0.134634	-0.00063	-0.00009	0.00023
	0.111935	-0.524553	-0.144997	0.00049	0.00010	-0.00022
	0.114580	-0.535986	-0.144925	0.00051	0.00010	-0.00020
	-0.168095	-0.538707	-0.120020	0.00051	-0.00014	-0.00018
	-0.165451	-0.550140	-0.119948	0.00052	-0.00013	-0.00016

	0.087930	-0.415810	-0.145403	0.00037	0.00008	-0.00040
	0.090575	-0.427243	-0.145331	0.00038	0.00008	-0.00038
	-0.192100	-0.429964	-0.120426	0.00038	-0.00016	-0.00037
	-0.189455	-0.441396	-0.120354	0.00040	-0.00015	-0.00035
690	0.130687	0.571577	-0.182575	-0.00050	0.00004	0.00035
	0.131597	0.556209	-0.180981	-0.00048	0.00004	0.00036
	-0.151865	0.551279	-0.207531	-0.00047	-0.00015	0.00038
	-0.150956	0.535911	-0.205937	-0.00046	-0.00015	0.00040
	0.123465	0.718406	-0.198219	-0.00061	0.00005	0.00016
	0.124375	0.703037	-0.196625	-0.00060	0.00005	0.00018
	-0.159088	0.698108	-0.223175	-0.00059	-0.00015	0.00019
	-0.158178	0.682739	-0.221581	-0.00057	-0.00015	0.00021
	0.155265	-0.559678	-0.071995	0.00041	-0.00008	-0.00022
	0.156174	-0.575047	-0.070401	0.00042	-0.00008	-0.00020
	-0.127288	-0.579976	-0.096951	0.00043	-0.00027	-0.00019
	-0.126378	-0.595345	-0.095357	0.00044	-0.00027	-0.00017
	0.148042	-0.412849	-0.087640	0.00029	-0.00007	-0.00041
	0.148952	-0.428218	-0.086045	0.00030	-0.00007	-0.00039
	-0.134510	-0.433147	-0.112595	0.00032	-0.00026	-0.00037
	-0.133600	-0.448516	-0.111001	0.00033	-0.00026	-0.00036
691	0.130683	0.567423	-0.193890	-0.00049	0.00010	0.00035
	0.131594	0.554022	-0.192532	-0.00048	0.00010	0.00037
	-0.151868	0.550199	-0.192806	-0.00047	-0.00018	0.00038
	-0.150958	0.536798	-0.191449	-0.00046	-0.00017	0.00040
	0.123459	0.695210	-0.207183	-0.00060	0.00007	0.00017
	0.124369	0.681810	-0.205825	-0.00059	0.00007	0.00019
	-0.159093	0.677986	-0.206099	-0.00059	-0.00020	0.00019
	-0.158182	0.664585	-0.204741	-0.00058	-0.00020	0.00021
	0.155267	-0.541431	-0.087208	0.00045	0.00019	-0.00021
	0.156177	-0.554832	-0.085851	0.00046	0.00019	-0.00019
	-0.127285	-0.558655	-0.086124	0.00047	-0.00009	-0.00019
	-0.126375	-0.572056	-0.084767	0.00048	-0.00008	-0.00017
	0.148042	-0.413643	-0.100501	0.00034	0.00016	-0.00040
	0.148953	-0.427044	-0.099143	0.00035	0.00016	-0.00038
	-0.134509	-0.430868	-0.099417	0.00036	-0.00011	-0.00037
	-0.133599	-0.444268	-0.098060	0.00037	-0.00011	-0.00035
692	0.130687	0.564641	-0.205260	-0.00049	0.00014	0.00036
	0.131597	0.553208	-0.204153	-0.00048	0.00015	0.00038
	-0.151865	0.550487	-0.178838	-0.00049	-0.00004	0.00039
	-0.150956	0.539054	-0.177731	-0.00048	-0.00004	0.00041
	0.123466	0.673386	-0.216137	-0.00059	0.00011	0.00017
	0.124376	0.661953	-0.215030	-0.00058	0.00012	0.00019
	-0.159086	0.659232	-0.189716	-0.00058	-0.00007	0.00020
	-0.158177	0.647799	-0.188608	-0.00057	-0.00007	0.00022
	0.155261	-0.524555	-0.102788	0.00040	0.00029	-0.00021
	0.156170	-0.535988	-0.101680	0.00041	0.00029	-0.00020
	-0.127292	-0.538709	-0.076366	0.00041	0.00010	-0.00018
	-0.126382	-0.550142	-0.075259	0.00042	0.00010	-0.00016
	0.148040	-0.415810	-0.113665	0.00030	0.00026	-0.00040
	0.148950	-0.427243	-0.112557	0.00031	0.00026	-0.00038
	-0.134513	-0.429964	-0.087243	0.00031	0.00007	-0.00037
	-0.133603	-0.441397	-0.086136	0.00032	0.00007	-0.00035
693	0.133059	0.669652	-0.241396	-0.00035	0.00040	0.00034
	0.133038	0.634853	-0.241360	-0.00033	0.00040	0.00036
	-0.150853	0.618937	-0.255348	-0.00032	0.00026	0.00037
	-0.150874	0.584137	-0.255312	-0.00031	0.00026	0.00039
	0.134841	1.004496	-0.241734	-0.00050	0.00040	0.00016
	0.134820	0.969696	-0.241698	-0.00049	0.00040	0.00018
	-0.149071	0.953780	-0.255686	-0.00047	0.00026	0.00019
	-0.149092	0.918981	-0.255650	-0.00046	0.00026	0.00021
	0.146158	-0.796723	-0.244169	0.00038	0.00040	-0.00021
	0.146138	-0.831522	-0.244133	0.00039	0.00040	-0.00019
	-0.137754	-0.847438	-0.258121	0.00040	0.00027	-0.00018
	-0.137774	-0.882237	-0.258085	0.00042	0.00027	-0.00016
	0.147940	-0.461879	-0.244507	0.00022	0.00040	-0.00039
	0.147919	-0.496678	-0.244471	0.00024	0.00040	-0.00037
	-0.135972	-0.512595	-0.258459	0.00025	0.00027	-0.00036
	-0.135992	-0.547394	-0.258423	0.00026	0.00027	-0.00034
694	0.133054	0.614806	-0.261936	-0.00027	-0.00011	0.00034
	0.133033	0.588733	-0.261521	-0.00026	-0.00011	0.00036
	-0.150857	0.577755	-0.273193	-0.00025	-0.00014	0.00037
	-0.150877	0.551682	-0.272777	-0.00024	-0.00014	0.00039
	0.134835	0.865226	-0.265882	-0.00038	-0.00010	0.00016
	0.134815	0.839153	-0.265467	-0.00037	-0.00010	0.00018
	-0.149075	0.828175	-0.277139	-0.00036	-0.00012	0.00019
	-0.149095	0.802102	-0.276723	-0.00035	-0.00012	0.00021
	0.146154	-0.679474	-0.243448	0.00037	-0.00020	-0.00021
	0.146134	-0.705547	-0.243033	0.00038	-0.00021	-0.00019
	-0.137756	-0.716525	-0.254705	0.00039	-0.00023	-0.00018
	-0.137777	-0.742598	-0.254289	0.00040	-0.00023	-0.00016
	0.147936	-0.429054	-0.247394	0.00025	-0.00019	-0.00039
	0.147915	-0.455128	-0.246979	0.00026	-0.00019	-0.00037
	-0.135975	-0.466105	-0.258651	0.00027	-0.00022	-0.00036

	-0.135995	-0.492178	-0.258235	0.00028	-0.00022	-0.00034
695	0.133059	0.580756	-0.208660	-0.00029	0.00006	0.00034
	0.133039	0.562282	-0.206964	-0.00028	0.00006	0.00036
	-0.150850	0.555599	-0.249442	-0.00030	-0.00003	0.00037
	-0.150869	0.537126	-0.247745	-0.00029	-0.00003	0.00039
	0.134833	0.757636	-0.224671	-0.00039	0.00008	0.00017
	0.134813	0.739163	-0.222975	-0.00038	0.00008	0.00018
	-0.149076	0.732480	-0.265453	-0.00040	-0.00001	0.00019
	-0.149095	0.714006	-0.263757	-0.00039	-0.00001	0.00021
	0.146149	-0.591070	-0.106713	0.00036	-0.00011	-0.00021
	0.146129	-0.609544	-0.105017	0.00036	-0.00011	-0.00019
	-0.137759	-0.616227	-0.147495	0.00034	-0.00020	-0.00018
	-0.137779	-0.634701	-0.145798	0.00035	-0.00021	-0.00016
	0.147923	-0.414190	-0.122724	0.00026	-0.00009	-0.00039
	0.147904	-0.432664	-0.121028	0.00027	-0.00009	-0.00037
	-0.135985	-0.439346	-0.163506	0.00025	-0.00019	-0.00036
	-0.136005	-0.457820	-0.161810	0.00025	-0.00019	-0.00034
696	0.133050	0.563222	-0.248285	-0.00033	-0.00003	0.00034
	0.133030	0.554876	-0.247484	-0.00032	-0.00003	0.00036
	-0.150859	0.553866	-0.207746	-0.00034	-0.00011	0.00037
	-0.150879	0.545521	-0.206946	-0.00033	-0.00010	0.00039
	0.134829	0.642091	-0.255864	-0.00039	-0.00006	0.00016
	0.134809	0.633746	-0.255063	-0.00038	-0.00005	0.00018
	-0.149080	0.632736	-0.215326	-0.00040	-0.00013	0.00019
	-0.149100	0.624390	-0.214525	-0.00039	-0.00013	0.00021
	0.146151	-0.501020	-0.150625	0.00028	0.00015	-0.00021
	0.146131	-0.509365	-0.149824	0.00029	0.00015	-0.00019
	-0.137758	-0.510375	-0.110086	0.00028	0.00007	-0.00018
	-0.137778	-0.518720	-0.109285	0.00029	0.00007	-0.00016
	0.147930	-0.422150	-0.158204	0.00022	0.00012	-0.00039
	0.147910	-0.430496	-0.157403	0.00023	0.00012	-0.00037
	-0.135979	-0.431506	-0.117665	0.00022	0.00004	-0.00036
	-0.135999	-0.439851	-0.116864	0.00023	0.00004	-0.00034
697	0.133052	0.571441	-0.265654	-0.00028	0.00028	0.00034
	0.133032	0.569287	-0.265617	-0.00028	0.00028	0.00036
	-0.150860	0.573013	-0.251375	-0.00028	0.00027	0.00037
	-0.150880	0.570859	-0.251337	-0.00028	0.00027	0.00039
	0.134833	0.590384	-0.265957	-0.00030	0.00027	0.00016
	0.134813	0.588230	-0.265920	-0.00030	0.00027	0.00018
	-0.149079	0.591956	-0.251678	-0.00030	0.00026	0.00019
	-0.149099	0.589802	-0.251640	-0.00030	0.00026	0.00021
	0.146155	-0.466171	-0.245294	0.00021	0.00039	-0.00021
	0.146135	-0.468324	-0.245257	0.00021	0.00039	-0.00019
	-0.137757	-0.464599	-0.231015	0.00021	0.00038	-0.00018
	-0.137777	-0.466752	-0.230977	0.00022	0.00038	-0.00016
	0.147936	-0.447228	-0.245597	0.00019	0.00038	-0.00039
	0.147916	-0.449381	-0.245560	0.00019	0.00039	-0.00037
	-0.135975	-0.445656	-0.231318	0.00019	0.00037	-0.00036
	-0.135996	-0.447809	-0.231280	0.00020	0.00038	-0.00034
698	0.133049	0.612362	-0.284804	-0.00032	-0.00002	0.00034
	0.133028	0.618933	-0.284945	-0.00032	-0.00002	0.00036
	-0.150865	0.626589	-0.284038	-0.00033	-0.00009	0.00037
	-0.150886	0.633160	-0.284180	-0.00033	-0.00009	0.00039
	0.134834	0.546860	-0.283531	-0.00030	-0.00002	0.00016
	0.134813	0.553431	-0.283673	-0.00030	-0.00002	0.00018
	-0.149081	0.561087	-0.282766	-0.00031	-0.00009	0.00019
	-0.149102	0.567658	-0.282907	-0.00031	-0.00009	0.00021
	0.146157	-0.443657	-0.278405	0.00016	-0.00002	-0.00021
	0.146136	-0.437086	-0.278546	0.00016	-0.00002	-0.00019
	-0.137758	-0.429430	-0.277639	0.00015	-0.00009	-0.00018
	-0.137779	-0.422859	-0.277781	0.00015	-0.00009	-0.00016
	0.147941	-0.509159	-0.277132	0.00018	-0.00003	-0.00039
	0.147920	-0.502588	-0.277274	0.00018	-0.00003	-0.00037
	-0.135973	-0.494932	-0.276367	0.00017	-0.00010	-0.00036
	-0.135994	-0.488361	-0.276508	0.00017	-0.00010	-0.00034
699	0.133047	0.678274	-0.280875	-0.00035	0.00002	0.00034
	0.133026	0.693007	-0.281022	-0.00035	0.00002	0.00036
	-0.150869	0.705259	-0.281030	-0.00036	-0.00005	0.00037
	-0.150890	0.719992	-0.281178	-0.00036	-0.00005	0.00039
	0.134833	0.533765	-0.279454	-0.00029	0.00002	0.00016
	0.134812	0.548498	-0.279601	-0.00030	0.00002	0.00018
	-0.149083	0.560750	-0.279609	-0.00030	-0.00005	0.00019
	-0.149104	0.575484	-0.279757	-0.00031	-0.00005	0.00021
	0.146156	-0.451141	-0.272918	0.00016	0.00002	-0.00021
	0.146135	-0.436408	-0.273066	0.00016	0.00002	-0.00019
	-0.137760	-0.424156	-0.273074	0.00015	-0.00005	-0.00018
	-0.137781	-0.409422	-0.273221	0.00015	-0.00005	-0.00016
	0.147943	-0.595650	-0.271497	0.00022	0.00002	-0.00039
	0.147921	-0.580916	-0.271645	0.00022	0.00002	-0.00037
	-0.135974	-0.568664	-0.271653	0.00021	-0.00005	-0.00036
	-0.135995	-0.553931	-0.271800	0.00021	-0.00005	-0.00034
700	0.133045	0.759821	-0.280381	-0.00050	-0.00006	0.00034

	0.133024	0.782154	-0.280529	-0.00051	-0.00006	0.00036
	-0.150873	0.798709	-0.280054	-0.00052	-0.00013	0.00037
	-0.150894	0.821043	-0.280202	-0.00052	-0.00013	0.00039
	0.134832	0.541752	-0.278903	-0.00041	-0.00007	0.00016
	0.134811	0.564086	-0.279052	-0.00042	-0.00007	0.00018
	-0.149086	0.580641	-0.278577	-0.00043	-0.00013	0.00019
	-0.149107	0.602974	-0.278725	-0.00043	-0.00013	0.00021
	0.146156	-0.478316	-0.272794	0.00005	-0.00006	-0.00021
	0.146135	-0.455983	-0.272942	0.00004	-0.00006	-0.00019
	-0.137762	-0.439428	-0.272467	0.00003	-0.00013	-0.00018
	-0.137783	-0.417094	-0.272615	0.00003	-0.00013	-0.00016
	0.147943	-0.696385	-0.271316	0.00014	-0.00006	-0.00039
	0.147921	-0.674051	-0.271464	0.00013	-0.00006	-0.00037
	-0.135975	-0.657496	-0.270990	0.00012	-0.00013	-0.00036
	-0.135996	-0.635163	-0.271138	0.00012	-0.00013	-0.00034
701	0.133046	0.863757	-0.280600	-0.00069	0.00005	0.00034
	0.133025	0.894255	-0.280735	-0.00070	0.00005	0.00036
	-0.150873	0.915437	-0.283576	-0.00071	-0.00002	0.00037
	-0.150895	0.945935	-0.283710	-0.00072	-0.00002	0.00039
	0.134831	0.566680	-0.279171	-0.00056	0.00005	0.00016
	0.134810	0.597179	-0.279305	-0.00057	0.00005	0.00018
	-0.149088	0.618361	-0.282147	-0.00058	-0.00001	0.00019
	-0.149110	0.648859	-0.282281	-0.00059	-0.00001	0.00021
	0.146156	-0.523873	-0.275364	-0.00006	0.00007	-0.00021
	0.146135	-0.493375	-0.275498	-0.00007	0.00007	-0.00019
	-0.137764	-0.472192	-0.278340	-0.00008	0.00001	-0.00018
	-0.137785	-0.441694	-0.278474	-0.00009	0.00001	-0.00016
	0.147941	-0.820949	-0.273935	0.00007	0.00008	-0.00039
	0.147920	-0.790451	-0.274069	0.00006	0.00008	-0.00037
	-0.135979	-0.769268	-0.276911	0.00005	0.00001	-0.00036
	-0.136000	-0.738770	-0.277045	0.00004	0.00001	-0.00034
702	0.133046	0.979865	-0.250183	-0.00068	-0.00013	0.00034
	0.133025	1.018528	-0.249834	-0.00069	-0.00013	0.00036
	-0.150875	1.044343	-0.261332	-0.00071	-0.00021	0.00037
	-0.150897	1.083006	-0.260983	-0.00072	-0.00021	0.00039
	0.134830	0.603786	-0.253249	-0.00051	-0.00013	0.00016
	0.134809	0.642450	-0.252900	-0.00052	-0.00013	0.00018
	-0.149091	0.668264	-0.264398	-0.00054	-0.00021	0.00019
	-0.149112	0.706928	-0.264049	-0.00055	-0.00021	0.00021
	0.146156	-0.581617	-0.269044	0.00004	-0.00012	-0.00021
	0.146134	-0.542953	-0.268695	0.00003	-0.00012	-0.00019
	-0.137765	-0.517139	-0.280193	0.00001	-0.00020	-0.00018
	-0.137787	-0.478475	-0.279844	0.00000	-0.00020	-0.00016
	0.147940	-0.957696	-0.272110	0.00021	-0.00011	-0.00039
	0.147919	-0.919032	-0.271761	0.00020	-0.00011	-0.00037
	-0.135981	-0.893218	-0.283259	0.00018	-0.00019	-0.00036
	-0.136003	-0.854554	-0.282910	0.00017	-0.00019	-0.00034
703	0.133046	1.075259	-0.224666	-0.00061	0.00001	0.00034
	0.133025	1.120211	-0.223610	-0.00063	0.00001	0.00036
	-0.150875	1.149595	-0.202060	-0.00064	-0.00018	0.00037
	-0.150896	1.194547	-0.201004	-0.00065	-0.00018	0.00039
	0.134831	0.638344	-0.234099	-0.00041	0.00003	0.00016
	0.134809	0.683297	-0.233043	-0.00043	0.00003	0.00018
	-0.149091	0.712680	-0.211493	-0.00044	-0.00016	0.00019
	-0.149112	0.757633	-0.210437	-0.00046	-0.00017	0.00021
	0.146156	-0.632066	-0.256994	0.00020	0.00007	-0.00021
	0.146134	-0.587114	-0.255938	0.00018	0.00006	-0.00019
	-0.137765	-0.557730	-0.234388	0.00017	-0.00013	-0.00018
	-0.137787	-0.512778	-0.233332	0.00015	-0.00013	-0.00016
	0.147940	-1.068981	-0.266427	0.00040	0.00008	-0.00039
	0.147918	-1.024028	-0.265371	0.00038	0.00008	-0.00037
	-0.135981	-0.994645	-0.243821	0.00037	-0.00011	-0.00036
	-0.136003	-0.949692	-0.242765	0.00035	-0.00011	-0.00034
704	-0.071711	0.669650	-0.262764	-0.00018	0.00019	0.00033
	-0.082899	0.634851	-0.262143	-0.00016	0.00018	0.00035
	-0.371954	0.618935	-0.274599	-0.00015	0.00000	0.00036
	-0.383142	0.584136	-0.273979	-0.00014	0.00000	0.00038
	0.038098	1.004495	-0.269990	-0.00032	0.00024	0.00016
	0.026910	0.969696	-0.269369	-0.00031	0.00024	0.00018
	-0.262146	0.953779	-0.281825	-0.00030	0.00006	0.00019
	-0.273334	0.918980	-0.281205	-0.00028	0.00005	0.00021
	0.269946	-0.796728	-0.211596	0.00050	0.00037	-0.00020
	0.258758	-0.831527	-0.210976	0.00052	0.00037	-0.00018
	-0.030298	-0.847443	-0.223432	0.00052	0.00019	-0.00017
	-0.041486	-0.882242	-0.222811	0.00054	0.00018	-0.00016
	0.379754	-0.461883	-0.218822	0.00036	0.00043	-0.00037
	0.368566	-0.496682	-0.218202	0.00037	0.00042	-0.00035
	0.079510	-0.512599	-0.230658	0.00038	0.00024	-0.00035
	0.068322	-0.547398	-0.230037	0.00039	0.00024	-0.00033
705	-0.071717	0.614806	-0.271336	-0.00019	-0.00007	0.00034
	-0.082905	0.588733	-0.271012	-0.00018	-0.00007	0.00036
	-0.371961	0.577755	-0.278781	-0.00017	-0.00019	0.00037
	-0.383148	0.551681	-0.278458	-0.00016	-0.00019	0.00039



	0.038092	0.865226	-0.275339	-0.00029	-0.00003	0.00016
	0.026904	0.839152	-0.275016	-0.00028	-0.00003	0.00018
	-0.262152	0.828174	-0.282785	-0.00027	-0.00015	0.00019
	-0.273339	0.802101	-0.282461	-0.00026	-0.00016	0.00021
	0.269942	-0.679476	-0.239999	0.00038	0.00006	-0.00021
	0.258754	-0.705549	-0.239675	0.00039	0.00005	-0.00019
	-0.030302	-0.716527	-0.247444	0.00040	-0.00007	-0.00018
	-0.041490	-0.742601	-0.247121	0.00041	-0.00007	-0.00016
	0.379751	-0.429056	-0.244003	0.00027	0.00009	-0.00039
	0.368563	-0.455130	-0.243679	0.00028	0.00009	-0.00037
	0.079507	-0.466108	-0.251448	0.00029	-0.00003	-0.00036
	0.068319	-0.492181	-0.251124	0.00030	-0.00004	-0.00034
706	-0.071721	0.580763	-0.265743	-0.00020	0.00008	0.00034
	-0.082909	0.562288	-0.265545	-0.00020	0.00008	0.00036
	-0.371966	0.555605	-0.268917	-0.00015	-0.00007	0.00037
	-0.383154	0.537130	-0.268719	-0.00015	-0.00007	0.00038
	0.038089	0.757652	-0.268176	-0.00026	0.00013	0.00016
	0.026901	0.739177	-0.267978	-0.00026	0.00012	0.00018
	-0.262156	0.732494	-0.271350	-0.00021	-0.00002	0.00019
	-0.273344	0.714019	-0.271152	-0.00021	-0.00003	0.00021
	0.269943	-0.591079	-0.247710	0.00021	0.00023	-0.00021
	0.258755	-0.609555	-0.247512	0.00021	0.00022	-0.00019
	-0.030303	-0.616237	-0.250884	0.00026	0.00008	-0.00018
	-0.041490	-0.634713	-0.250686	0.00026	0.00007	-0.00016
	0.379753	-0.414190	-0.250142	0.00014	0.00027	-0.00038
	0.368565	-0.432666	-0.249944	0.00015	0.00027	-0.00036
	0.079508	-0.439348	-0.253316	0.00020	0.00012	-0.00035
	0.068320	-0.457824	-0.253118	0.00020	0.00012	-0.00034
707	-0.071738	0.563219	-0.219464	-0.00011	-0.00021	0.00034
	-0.082926	0.554875	-0.218499	-0.00010	-0.00021	0.00036
	-0.371985	0.553865	-0.196253	-0.00011	-0.00034	0.00037
	-0.383173	0.545520	-0.195287	-0.00011	-0.00034	0.00039
	0.038078	0.642083	-0.228048	-0.00014	-0.00017	0.00017
	0.026890	0.633738	-0.227083	-0.00014	-0.00017	0.00018
	-0.262169	0.632729	-0.204837	-0.00015	-0.00030	0.00019
	-0.273357	0.624384	-0.203871	-0.00014	-0.00030	0.00021
	0.269949	-0.501016	-0.246100	0.00025	-0.00007	-0.00021
	0.258761	-0.509361	-0.245135	0.00025	-0.00008	-0.00019
	-0.030298	-0.510370	-0.222889	0.00024	-0.00020	-0.00018
	-0.041486	-0.518715	-0.221924	0.00025	-0.00021	-0.00016
	0.379765	-0.422152	-0.254685	0.00021	-0.00003	-0.00038
	0.368577	-0.430497	-0.253719	0.00021	-0.00003	-0.00037
	0.079518	-0.431506	-0.231473	0.00021	-0.00016	-0.00035
	0.068330	-0.439851	-0.230508	0.00021	-0.00017	-0.00034
708	-0.071749	0.571443	-0.252203	-0.00012	0.00011	0.00034
	-0.082938	0.569289	-0.251917	-0.00011	0.00010	0.00036
	-0.372000	0.573016	-0.244171	-0.00012	0.00001	0.00037
	-0.383188	0.570862	-0.243885	-0.00012	0.00001	0.00039
	0.038072	0.590382	-0.254822	-0.00013	0.00014	0.00016
	0.026884	0.588228	-0.254535	-0.00013	0.00013	0.00018
	-0.262178	0.591955	-0.246789	-0.00014	0.00004	0.00019
	-0.273366	0.589800	-0.246503	-0.00013	0.00004	0.00021
	0.269956	-0.466168	-0.262780	0.00033	0.00021	-0.00021
	0.258768	-0.468323	-0.262494	0.00034	0.00021	-0.00019
	-0.030294	-0.464596	-0.254748	0.00033	0.00011	-0.00018
	-0.041482	-0.466750	-0.254461	0.00033	0.00011	-0.00016
	0.379778	-0.447230	-0.265398	0.00032	0.00024	-0.00039
	0.368590	-0.449384	-0.265112	0.00032	0.00024	-0.00037
	0.079528	-0.445657	-0.257366	0.00031	0.00014	-0.00036
	0.068339	-0.447811	-0.257079	0.00032	0.00014	-0.00034
709	-0.071764	0.612366	-0.231832	-0.00009	-0.00005	0.00034
	-0.082954	0.618936	-0.231838	-0.00009	-0.00006	0.00036
	-0.372019	0.626593	-0.235565	-0.00010	-0.00015	0.00037
	-0.383209	0.633163	-0.235571	-0.00010	-0.00015	0.00039
	0.038065	0.546858	-0.232100	-0.00007	-0.00002	0.00016
	0.026875	0.553428	-0.232106	-0.00007	-0.00003	0.00018
	-0.262191	0.561085	-0.235832	-0.00008	-0.00012	0.00019
	-0.273380	0.567655	-0.235839	-0.00008	-0.00012	0.00021
	0.269963	-0.443657	-0.244786	0.00037	0.00005	-0.00021
	0.258773	-0.437087	-0.244792	0.00036	0.00004	-0.00019
	-0.030292	-0.429430	-0.248519	0.00036	-0.00005	-0.00018
	-0.041482	-0.422860	-0.248525	0.00036	-0.00005	-0.00016
	0.379791	-0.509165	-0.245054	0.00039	0.00008	-0.00038
	0.368602	-0.502595	-0.245060	0.00039	0.00007	-0.00037
	0.079536	-0.494938	-0.248786	0.00038	-0.00002	-0.00036
	0.068346	-0.488369	-0.248793	0.00038	-0.00002	-0.00034
710	-0.071772	0.678279	-0.257342	-0.00011	0.00015	0.00034
	-0.082963	0.693011	-0.257498	-0.00011	0.00015	0.00036
	-0.372031	0.705264	-0.258544	-0.00011	0.00001	0.00037
	-0.383221	0.719997	-0.258700	-0.00012	0.00001	0.00039
	0.038060	0.533764	-0.255371	-0.00005	0.00019	0.00016
	0.026870	0.548496	-0.255527	-0.00006	0.00019	0.00018
	-0.262198	0.560749	-0.256573	-0.00006	0.00005	0.00019

	-0.273389	0.575482	-0.256729	-0.00006	0.00005	0.00021
	0.269966	-0.451144	-0.247321	0.00036	0.00001	-0.00021
	0.258775	-0.436411	-0.247477	0.00036	0.00001	-0.00019
	-0.030293	-0.424158	-0.248522	0.00035	-0.00012	-0.00018
	-0.041484	-0.409426	-0.248678	0.00035	-0.00013	-0.00016
	0.379798	-0.595659	-0.245350	0.00041	0.00005	-0.00038
	0.368607	-0.580926	-0.245506	0.00041	0.00005	-0.00037
	0.079539	-0.568673	-0.246551	0.00041	-0.00008	-0.00036
	0.068348	-0.553941	-0.246707	0.00040	-0.00009	-0.00034
711	-0.071775	0.759819	-0.271081	-0.00016	-0.00006	0.00034
	-0.082967	0.782152	-0.271587	-0.00016	-0.00006	0.00036
	-0.372037	0.798708	-0.270742	-0.00017	-0.00012	0.00037
	-0.383229	0.821041	-0.271249	-0.00018	-0.00012	0.00039
	0.038059	0.541746	-0.265752	-0.00004	-0.00005	0.00016
	0.026867	0.564078	-0.266259	-0.00005	-0.00005	0.00018
	-0.262203	0.580634	-0.265414	-0.00005	-0.00011	0.00019
	-0.273395	0.602967	-0.265921	-0.00006	-0.00011	0.00021
	0.269967	-0.478325	-0.243768	0.00057	-0.00011	-0.00021
	0.258775	-0.455992	-0.244274	0.00056	-0.00011	-0.00019
	-0.030296	-0.439437	-0.243430	0.00055	-0.00017	-0.00018
	-0.041487	-0.417104	-0.243936	0.00054	-0.00017	-0.00016
	0.379801	-0.696399	-0.238439	0.00068	-0.00010	-0.00038
	0.368609	-0.674066	-0.238946	0.00067	-0.00010	-0.00037
	0.079538	-0.657510	-0.238101	0.00067	-0.00016	-0.00036
	0.068346	-0.635178	-0.238608	0.00066	-0.00016	-0.00034
712	-0.071774	0.863750	-0.289258	-0.00005	0.00008	0.00034
	-0.082967	0.894247	-0.290603	-0.00006	0.00008	0.00036
	-0.372039	0.915431	-0.291399	-0.00007	0.00000	0.00037
	-0.383232	0.945928	-0.292745	-0.00008	0.00000	0.00039
	0.038060	0.566670	-0.276199	0.00012	0.00009	0.00016
	0.026867	0.597167	-0.277544	0.00011	0.00009	0.00018
	-0.262206	0.618351	-0.278340	0.00010	0.00001	0.00019
	-0.273398	0.648848	-0.279686	0.00009	0.00001	0.00021
	0.269967	-0.523886	-0.232963	0.00078	0.00002	-0.00021
	0.258774	-0.493389	-0.234309	0.00076	0.00002	-0.00019
	-0.030299	-0.472205	-0.235104	0.00076	-0.00006	-0.00018
	-0.041491	-0.441708	-0.236450	0.00074	-0.00006	-0.00016
	0.379800	-0.820966	-0.219904	0.00094	0.00003	-0.00038
	0.368608	-0.790469	-0.221249	0.00093	0.00003	-0.00037
	0.079535	-0.769285	-0.222045	0.00092	-0.00005	-0.00036
	0.068342	-0.738788	-0.223391	0.00091	-0.00005	-0.00034
713	-0.071773	0.979858	-0.303969	-0.00014	0.00002	0.00034
	-0.082966	1.018521	-0.306717	-0.00015	0.00002	0.00036
	-0.372040	1.044337	-0.305861	-0.00015	-0.00004	0.00037
	-0.383234	1.083000	-0.308609	-0.00017	-0.00004	0.00039
	0.038060	0.603778	-0.278102	0.00008	0.00001	0.00016
	0.026867	0.642441	-0.280850	0.00007	0.00001	0.00018
	-0.262207	0.668256	-0.279994	0.00007	-0.00005	0.00019
	-0.273401	0.706920	-0.282741	0.00005	-0.00005	0.00021
	0.269966	-0.581626	-0.197766	0.00082	-0.00006	-0.00021
	0.258773	-0.542963	-0.200514	0.00081	-0.00005	-0.00019
	-0.030302	-0.517147	-0.199658	0.00081	-0.00012	-0.00018
	-0.041495	-0.478484	-0.202406	0.00079	-0.00012	-0.00016
	0.379799	-0.957706	-0.171899	0.00104	-0.00007	-0.00038
	0.368606	-0.919043	-0.174647	0.00103	-0.00006	-0.00037
	0.079531	-0.893228	-0.173790	0.00103	-0.00013	-0.00036
	0.068338	-0.854565	-0.176538	0.00101	-0.00013	-0.00034
714	-0.071772	1.075255	-0.305464	-0.00030	-0.00002	0.00033
	-0.082966	1.120208	-0.309028	-0.00032	-0.00002	0.00035
	-0.372040	1.149592	-0.294884	-0.00033	-0.00013	0.00036
	-0.383234	1.194544	-0.298449	-0.00035	-0.00013	0.00038
	0.038061	0.638340	-0.272221	-0.00006	-0.00002	0.00016
	0.026867	0.683292	-0.275785	-0.00008	-0.00002	0.00018
	-0.262207	0.712676	-0.261641	-0.00009	-0.00012	0.00019
	-0.273401	0.757628	-0.265206	-0.00011	-0.00012	0.00021
	0.269966	-0.632073	-0.167010	0.00070	-0.00009	-0.00020
	0.258773	-0.587121	-0.170574	0.00068	-0.00009	-0.00018
	-0.030302	-0.557737	-0.156431	0.00067	-0.00020	-0.00017
	-0.041496	-0.512785	-0.159995	0.00065	-0.00020	-0.00016
	0.379799	-1.068989	-0.133767	0.00094	-0.00008	-0.00037
	0.368606	-1.024037	-0.137331	0.00092	-0.00008	-0.00036
	0.079531	-0.994653	-0.123188	0.00091	-0.00019	-0.00035
	0.068337	-0.949701	-0.126752	0.00089	-0.00019	-0.00033
715	0.225038	0.590830	-0.090223	-0.00052	0.00017	0.00036
	0.229516	0.575015	-0.090723	-0.00051	0.00017	0.00037
	-0.061970	0.570048	-0.117940	-0.00050	-0.00008	0.00038
	-0.057493	0.554233	-0.118441	-0.00049	-0.00008	0.00040
	0.183294	0.742174	-0.084693	-0.00064	0.00015	0.00017
	0.187772	0.726360	-0.085194	-0.00063	0.00015	0.00019
	-0.103714	0.721392	-0.112410	-0.00061	-0.00010	0.00020
	-0.099237	0.705577	-0.112911	-0.00060	-0.00010	0.00022
	0.095554	-0.577947	-0.157790	0.00046	0.00011	-0.00021
	0.100032	-0.593762	-0.158291	0.00047	0.00011	-0.00019

	-0.191454	-0.598730	-0.185508	0.00048	-0.00014	-0.00019
	-0.186977	-0.614545	-0.186009	0.00050	-0.00014	-0.00017
	0.053810	-0.426603	-0.152261	0.00035	0.00009	-0.00039
	0.058288	-0.442418	-0.152762	0.00036	0.00009	-0.00038
	-0.233198	-0.447386	-0.179978	0.00037	-0.00016	-0.00037
	-0.228721	-0.463201	-0.180479	0.00038	-0.00016	-0.00035
716	0.225145	0.586792	-0.101417	-0.00050	0.00016	0.00035
	0.229615	0.572952	-0.102155	-0.00048	0.00016	0.00037
	-0.061980	0.568946	-0.103653	-0.00048	-0.00008	0.00038
	-0.057510	0.555105	-0.104391	-0.00047	-0.00008	0.00040
	0.183484	0.719031	-0.093585	-0.00061	0.00014	0.00017
	0.187954	0.705191	-0.094324	-0.00060	0.00014	0.00019
	-0.103641	0.701185	-0.095821	-0.00059	-0.00010	0.00020
	-0.099172	0.687345	-0.096559	-0.00058	-0.00010	0.00022
	0.095981	-0.559416	-0.172807	0.00045	0.00009	-0.00021
	0.100451	-0.573256	-0.173545	0.00046	0.00009	-0.00020
	-0.191144	-0.577262	-0.175043	0.00047	-0.00015	-0.00019
	-0.186675	-0.591102	-0.175781	0.00048	-0.00015	-0.00017
	0.054320	-0.427177	-0.164975	0.00034	0.00007	-0.00040
	0.058790	-0.441017	-0.165713	0.00035	0.00007	-0.00038
	-0.232805	-0.445023	-0.167211	0.00036	-0.00017	-0.00037
	-0.228336	-0.458863	-0.167949	0.00037	-0.00017	-0.00035
717	0.225226	0.584058	-0.113177	-0.00051	0.00008	0.00034
	0.229690	0.572187	-0.114138	-0.00050	0.00008	0.00036
	-0.061883	0.569130	-0.089760	-0.00050	-0.00017	0.00037
	-0.057419	0.557258	-0.090721	-0.00049	-0.00017	0.00039
	0.183619	0.697228	-0.103138	-0.00063	0.00006	0.00016
	0.188082	0.685357	-0.104098	-0.00062	0.00006	0.00018
	-0.103490	0.682299	-0.079721	-0.00061	-0.00019	0.00019
	-0.099027	0.670428	-0.080681	-0.00060	-0.00019	0.00021
	0.096280	-0.542590	-0.187835	0.00047	0.00016	-0.00021
	0.100744	-0.554461	-0.188796	0.00048	0.00016	-0.00019
	-0.190829	-0.557519	-0.164418	0.00048	-0.00009	-0.00019
	-0.186365	-0.569390	-0.165379	0.00049	-0.00008	-0.00017
	0.054673	-0.429420	-0.177796	0.00035	0.00014	-0.00039
	0.059137	-0.441291	-0.178757	0.00036	0.00014	-0.00037
	-0.232436	-0.444349	-0.154379	0.00036	-0.00011	-0.00036
	-0.227972	-0.456220	-0.155340	0.00038	-0.00011	-0.00035
718	0.192711	0.591227	-0.137179	-0.00050	0.00016	0.00035
	0.195446	0.575410	-0.136633	-0.00048	0.00016	0.00037
	-0.096815	0.570308	-0.163593	-0.00048	-0.00008	0.00038
	-0.094079	0.554491	-0.163047	-0.00047	-0.00008	0.00040
	0.167824	0.742596	-0.142223	-0.00061	0.00014	0.00017
	0.170560	0.726779	-0.141678	-0.00060	0.00014	0.00019
	-0.121702	0.721677	-0.168638	-0.00059	-0.00010	0.00020
	-0.118966	0.705860	-0.168092	-0.00058	-0.00010	0.00022
	0.115206	-0.577911	-0.113951	0.00046	0.00009	-0.00022
	0.117942	-0.593728	-0.113405	0.00047	0.00010	-0.00020
	-0.174319	-0.598830	-0.140365	0.00048	-0.00015	-0.00019
	-0.171583	-0.614647	-0.139820	0.00049	-0.00015	-0.00017
	0.090320	-0.426542	-0.118996	0.00035	0.00007	-0.00040
	0.093056	-0.442359	-0.118450	0.00036	0.00007	-0.00038
	-0.199206	-0.447461	-0.145410	0.00036	-0.00017	-0.00037
	-0.196470	-0.463278	-0.144864	0.00037	-0.00017	-0.00035
719	0.193191	0.584325	-0.159349	-0.00050	0.00016	0.00035
	0.195926	0.572450	-0.159276	-0.00049	0.00016	0.00036
	-0.096366	0.569487	-0.134374	-0.00048	-0.00008	0.00038
	-0.093630	0.557612	-0.134301	-0.00047	-0.00008	0.00039
	0.168312	0.697547	-0.159756	-0.00061	0.00014	0.00017
	0.171048	0.685671	-0.159683	-0.00060	0.00014	0.00018
	-0.121244	0.682709	-0.134781	-0.00059	-0.00010	0.00019
	-0.118509	0.670834	-0.134709	-0.00058	-0.00010	0.00021
	0.115738	-0.542691	-0.145057	0.00046	0.00009	-0.00022
	0.118473	-0.554566	-0.144985	0.00047	0.00009	-0.00020
	-0.173819	-0.557528	-0.120082	0.00047	-0.00015	-0.00019
	-0.171083	-0.569403	-0.120010	0.00049	-0.00015	-0.00017
	0.090859	-0.429469	-0.145464	0.00034	0.00007	-0.00040
	0.093595	-0.441344	-0.145392	0.00036	0.00007	-0.00038
	-0.198697	-0.444306	-0.120489	0.00036	-0.00018	-0.00037
	-0.195962	-0.456182	-0.120417	0.00037	-0.00017	-0.00035
720	0.134100	0.591389	-0.182555	-0.00049	0.00010	0.00032
	0.135094	0.575570	-0.180961	-0.00048	0.00011	0.00034
	-0.158000	0.570398	-0.207496	-0.00048	-0.00015	0.00036
	-0.157006	0.554579	-0.205902	-0.00047	-0.00014	0.00038
	0.126066	0.742774	-0.198190	-0.00061	0.00008	0.00014
	0.127060	0.726955	-0.196596	-0.00060	0.00008	0.00016
	-0.166034	0.721783	-0.223131	-0.00059	-0.00017	0.00018
	-0.165041	0.705964	-0.221537	-0.00058	-0.00017	0.00020
	0.160982	-0.577832	-0.072033	0.00047	0.00018	-0.00023
	0.161976	-0.593650	-0.070439	0.00048	0.00019	-0.00021
	-0.131118	-0.598823	-0.096974	0.00049	-0.00007	-0.00019
	-0.130125	-0.614642	-0.095380	0.00050	-0.00006	-0.00018
	0.152948	-0.426447	-0.087668	0.00036	0.00016	-0.00041

	0.153942	-0.442265	-0.086075	0.00037	0.00016	-0.00039
	-0.139153	-0.447438	-0.112609	0.00037	-0.00009	-0.00037
	-0.138159	-0.463257	-0.111016	0.00038	-0.00009	-0.00036
721	0.134335	0.587023	-0.193955	-0.00049	0.00016	0.00035
	0.135336	0.573181	-0.192598	-0.00048	0.00017	0.00037
	-0.157836	0.569163	-0.192872	-0.00047	-0.00008	0.00038
	-0.156834	0.555321	-0.191515	-0.00046	-0.00008	0.00040
	0.126228	0.719289	-0.207247	-0.00060	0.00014	0.00017
	0.127229	0.705446	-0.205890	-0.00059	0.00014	0.00019
	-0.165942	0.701429	-0.206164	-0.00059	-0.00010	0.00020
	-0.164941	0.687586	-0.204807	-0.00058	-0.00010	0.00022
	0.161612	-0.559439	-0.087291	0.00046	0.00009	-0.00022
	0.162613	-0.573282	-0.085934	0.00047	0.00009	-0.00020
	-0.130559	-0.577299	-0.086208	0.00048	-0.00015	-0.00019
	-0.129557	-0.591142	-0.084851	0.00049	-0.00015	-0.00017
	0.153505	-0.427174	-0.100583	0.00035	0.00007	-0.00040
	0.154506	-0.441017	-0.099226	0.00036	0.00007	-0.00038
	-0.138665	-0.445034	-0.099500	0.00036	-0.00018	-0.00037
	-0.137664	-0.458877	-0.098143	0.00037	-0.00017	-0.00035
722	0.134551	0.584429	-0.205222	-0.00049	0.00015	0.00036
	0.135556	0.572555	-0.204115	-0.00048	0.00015	0.00038
	-0.157531	0.569652	-0.178823	-0.00047	-0.00010	0.00040
	-0.156526	0.557778	-0.177715	-0.00046	-0.00010	0.00042
	0.126405	0.697646	-0.216096	-0.00061	0.00013	0.00018
	0.127411	0.685771	-0.214989	-0.00060	0.00013	0.00020
	-0.165677	0.682868	-0.189697	-0.00059	-0.00012	0.00022
	-0.164672	0.670994	-0.188589	-0.00058	-0.00012	0.00023
	0.162098	-0.542643	-0.102796	0.00047	0.00008	-0.00020
	0.163103	-0.554518	-0.101689	0.00048	0.00008	-0.00018
	-0.129984	-0.557420	-0.076396	0.00049	-0.00017	-0.00016
	-0.128979	-0.569295	-0.075289	0.00050	-0.00017	-0.00015
	0.153952	-0.429427	-0.113670	0.00035	0.00006	-0.00038
	0.154958	-0.441302	-0.112563	0.00037	0.00006	-0.00036
	-0.138130	-0.444204	-0.087270	0.00037	-0.00019	-0.00035
	-0.137124	-0.456079	-0.086163	0.00039	-0.00019	-0.00033

## VERIFICA SPOSTAMENTI SISMICI

spostamento limite interpiano = 0.5% dell'altezza

CASO n. 8 - SLD con SISMAX PRINC:

Zinf [cm]	Zsup [cm]	h [cm]	spost.max [cm]	%h	nodo	sest.	ver.
0.00	350.00	350.00	0.186045	0.053	560	13	SI
350.00	700.00	350.00	0.177165	0.051	659	13	SI
700.00	1050.00	350.00	0.137551	0.039	714	4	SI

CASO n. 9 - SLD con SISMAX PRINC:

Zinf [cm]	Zsup [cm]	h [cm]	spost.max [cm]	%h	nodo	sest.	ver.
0.00	350.00	350.00	0.271675	0.078	560	4	SI
350.00	700.00	350.00	0.265562	0.076	659	4	SI
700.00	1050.00	350.00	0.203060	0.058	714	13	SI

Fattore Mud (NTC 7.3.3.3) = 4.140

## REAZIONI VINCOLARI:

CASO DI CARICO : 2 SLU VENTOX

COMBINAZIONE

N. 10 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.30
2	Peso_proprio_Fondaz	+	1.30
3	Permanente	+	1.50
4	Variabile	+	1.50
5	Var_cop_praticabile	+	1.50
6	Var_cop_non_pratica	+	1.50
7	Variabile_Scale	+	1.50
8	Vento_X	+-	1.50
10	Neve	+	1.50
11	Spinta_terre	+	1.50

1)	+1.30*c001	+1.30*c002	+1.50*c003	+1.50*c004	+1.50*c005
)	+1.50*c006	+1.50*c007	+1.50*c008	+1.50*c010	+1.50*c011
2)	+1.30*c001	+1.30*c002	+1.50*c003	+1.50*c004	+1.50*c005
)	+1.50*c006	+1.50*c007	-1.50*c008	+1.50*c010	+1.50*c011

Unità di misura: SX,SY,SZ [dan];RX,RY,RZ [dan\*cm]

Coefficiente moltiplicativo: 1.000000

Nodo	1	SX 1514.2 1573.0	SY -1951.6 -1981.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	2	SX 607.0 707.2	SY -6012.5 -6000.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	3	SX 709.8 768.4	SY -7550.0 -7580.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	4	SX -1232.3 -1225.5	SY -8508.9 -8626.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	5	SX -2334.0 -2369.3	SY -7318.7 -7350.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	6	SX -850.7 -923.9	SY -9064.8 -9069.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	7	SX 1791.0 1697.8	SY -5520.0 -5505.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	8	SX 296.5 247.1	SY -148.7 -137.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	9	SX -5035.0 -5018.7	SY -4565.6 -4647.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	10	SX 4787.6 4775.3	SY -3340.9 -3320.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	11	SX -8164.3 -8162.2	SY -2482.6 -2669.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	12	SX 8081.3 8079.0	SY -1985.6 -2081.9	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	13	SX -6168.4 -6173.1	SY -1279.9 -1472.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	14	SX 6200.0 6200.9	SY -1480.2 -1561.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	15	SX -6183.8 -6167.3	SY -2281.4 -2612.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	16	SX -919.2 -920.2	SY -224.5 -279.9	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	17	SX 7402.3 7385.6	SY -1196.1 -1374.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	18	SX -6487.8 -6484.0	SY -3417.6 -3768.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	19	SX 6561.7 6557.0	SY -453.1 -617.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	20	SX -8673.5 -8673.9	SY -1944.9 -2352.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	21	SX 8619.5 8619.4	SY 1553.0 1333.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	22	SX -4919.4 -4927.4	SY 364.8 185.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0

Nodo	23	SX 5436.1 5445.7	SY 1600.8 1490.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	24	SX -3064.5 -3057.2	SY 29.3 52.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	25	SX -6437.2 -6412.9	SY -5068.7 -5064.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	26	SX -1606.6 -1612.4	SY -8463.6 -8466.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	27	SX 749.9 712.7	SY -6251.3 -6259.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	28	SX -5328.7 -5377.7	SY -5945.9 -5975.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	29	SX -10564.5 -10625.8	SY -4790.3 -4798.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	30	SX -9290.1 -9387.6	SY -6660.2 -6660.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	31	SX -3106.1 -3258.0	SY -3542.7 -3524.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	32	SX -624.5 -802.6	SY -1777.5 -1822.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	33	SX 8388.4 8458.9	SY -4860.7 -4904.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	34	SX 427.8 602.9	SY 2372.9 2315.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	35	SX 8526.7 8652.0	SY -3381.8 -3422.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	36	SX 6656.7 6707.5	SY -5239.7 -5229.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	37	SX 8128.9 8114.6	SY -8380.2 -8379.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	38	SX 8925.0 8893.6	SY -6171.7 -6170.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	39	SX 4069.4 4051.1	SY -6062.4 -6073.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	40	SX -1096.6 -1091.9	SY -5557.1 -5554.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	41	SX 313.1 313.0	SY -7567.5 -7569.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	42	SX 2045.3 2045.4	SY -5787.9 -5794.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	43	SX -317.1 -298.4	SY -7104.1 -7157.9	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	44	SX -2748.7 -2710.4	SY -5204.3 -5210.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0

Nodo	45	SX -1279.1 -1246.7	SY -6809.9 -6814.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	46	SX 279.2 308.4	SY -5222.2 -5229.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	47	SX -1700.0 -1655.4	SY -7576.4 -7643.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	48	SX -3398.4 -3339.5	SY -5910.8 -5917.9	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	49	SX -1082.3 -1039.7	SY -7607.2 -7610.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	50	SX 1170.8 1199.8	SY -5757.1 -5764.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	51	SX -948.9 -920.5	SY -7622.8 -7693.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	52	SX -2919.0 -2890.9	SY -5847.7 -5854.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	53	SX -733.7 -738.6	SY -7715.5 -7721.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	54	SX 1688.3 1655.2	SY -6188.9 -6205.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	55	SX 293.0 225.8	SY -7866.0 -7948.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	56	SX -303.0 -393.1	SY -6023.6 -6040.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	57	SX 2329.0 2195.9	SY -4733.3 -4727.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	58	SX 984.7 909.6	SY -976.5 -1029.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	59	SX -3581.9 -3579.1	SY -2260.5 -2191.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	60	SX 4153.2 4144.2	SY -1561.3 -1624.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	61	SX 193.1 -66.7	SY 3973.3 3949.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	62	SX -2155.9 -2114.2	SY 511.8 485.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	63	SX -2707.4 -2391.6	SY 2749.1 2544.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	64	SX -6448.8 -6447.3	SY 690.5 679.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	65	SX 6618.3 6616.4	SY 1292.6 1110.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	66	SX 295.7 270.8	SY 3780.9 4040.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0

Nodo	67	SX -349.7 -324.5	SY 1108.8 1021.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	68	SX -4597.2 -4594.9	SY 1099.6 1087.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	69	SX 4970.1 4972.9	SY 1903.1 1763.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	70	SX 3353.8 3569.2	SY -11.0 103.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	71	SX 373.3 382.5	SY -711.9 -732.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	72	SX -3143.7 -3387.0	SY -1839.2 -1990.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	73	SX -7223.7 -7204.8	SY -3811.5 -3897.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	74	SX -1427.5 -1412.6	SY -2125.5 -2137.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	75	SX 22.8 51.8	SY -829.3 -799.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	76	SX -440.5 -461.0	SY 278.6 157.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	77	SX 2172.5 2157.8	SY -862.4 -815.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	78	SX -38.7 -38.2	SY 174.8 213.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	79	SX 161.2 164.2	SY -557.7 -571.9	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	80	SX -306.8 -303.0	SY 1075.7 1043.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	81	SX 619.7 623.2	SY 3016.9 2980.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	82	SX 22.1 30.1	SY 1810.9 1770.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	83	SX 7766.8 7777.8	SY -2399.8 -2576.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	84	SX -4668.1 -4663.4	SY -7639.4 -7696.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	85	SX 4690.9 4694.7	SY -5053.0 -5127.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	86	SX -7380.8 -7379.6	SY -6238.3 -6338.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	87	SX 7282.7 7284.0	SY -4195.3 -4329.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	88	SX -7944.7 -7944.9	SY -668.9 -767.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0



Nodo	89	SX 7958.6 7959.6	SY -366.5 -495.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	90	SX -7174.9 -7176.3	SY 5247.5 5175.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	91	SX 7338.9 7341.3	SY 3817.5 3747.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	92	SX -3341.0 -3344.1	SY 9524.6 9517.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	93	SX 3952.4 3959.2	SY 7804.5 7866.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	94	SX 589.0 567.5	SY 4536.1 4517.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	95	SX -3177.8 -3217.9	SY 4649.5 4653.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	96	SX 1363.4 1349.4	SY 8295.5 8293.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	97	SX 4097.0 4107.6	SY 6513.0 6502.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	98	SX 1542.4 1560.3	SY 8776.2 8721.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	99	SX -1155.2 -1140.1	SY 5170.4 5159.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	100	SX 93.8 115.2	SY 6772.7 6767.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	101	SX 1052.4 1074.9	SY 5124.1 5118.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	102	SX -2210.6 -2214.3	SY 10510.2 10441.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	103	SX -5407.3 -5444.9	SY 5627.0 5626.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	104	SX -4261.0 -4307.9	SY 7689.5 7701.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	105	SX -968.4 -1017.1	SY 6282.5 6325.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	106	SX -183.1 -212.6	SY 4097.9 4296.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	107	SX -3038.3 -3011.4	SY -3688.5 -3934.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	108	SX -8883.2 -8821.8	SY 2255.6 2088.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	109	SX 920.9 915.8	SY 713.6 710.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	110	SX 3053.8 3033.6	SY 132.2 123.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0

Nodo	111	SX 5869.3 5830.7	SY 8438.1 8350.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	112	SX 4002.6 3961.5	SY -22965.4 -22803.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	113	SX -3120.4 -3114.6	SY 21149.9 20971.9	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	114	SX 2876.5 2898.0	SY 6360.9 6359.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	115	SX 7128.2 7196.0	SY 7443.3 7442.9	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	116	SX 8208.4 8266.9	SY 5356.2 5349.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	117	SX 4704.9 4737.9	SY 8005.3 7935.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	118	SX 591.0 585.0	SY 5079.2 5071.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	119	SX 1371.5 1365.3	SY 6765.1 6760.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	120	SX 2157.9 2147.4	SY 4651.2 4648.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	121	SX -1075.4 -1102.5	SY 7418.8 7349.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	122	SX -3395.9 -3443.3	SY 5359.8 5357.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	123	SX 47.6 13.4	SY 7625.4 7622.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	124	SX 2984.9 2962.2	SY 4970.5 4969.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	125	SX -1036.4 -1051.4	SY 5682.0 5616.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	126	SX -5067.3 -5077.4	SY 5015.4 5014.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	127	SX -2456.9 -2429.8	SY 7684.3 7678.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	128	SX 1059.5 1108.7	SY 5338.1 5326.7	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	129	SX -413.8 -369.2	SY 5873.0 5819.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	130	SX -1842.8 -1796.4	SY 4970.8 4962.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	131	SX -35.7 51.5	SY 4412.8 4415.9	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	132	SX -2244.6 -2208.4	SY 5151.7 5174.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0

Nodo	133	SX -4052.2 -4036.2	SY -2077.0 -2161.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	134	SX 4435.2 4423.9	SY 365.9 286.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	135	SX -7509.0 -7532.9	SY -971.8 -1158.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	136	SX 5855.3 5851.6	SY -3399.7 -3551.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	137	SX -5829.3 -5857.1	SY 1002.8 860.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	138	SX 4373.2 4367.8	SY -1275.4 -1332.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	139	SX -398.3 -390.3	SY -1082.5 -1060.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	140	SX 5399.9 5388.6	SY -184.7 -259.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	141	SX -6931.4 -6965.0	SY 478.4 327.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	142	SX 3537.4 3535.2	SY 2590.3 2564.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	143	SX -4174.0 -4183.8	SY 509.0 466.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	144	SX 1058.7 1103.4	SY 115.9 61.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	145	SX -5031.2 -5042.5	SY 1399.1 1355.3	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	146	SX 2609.9 2698.5	SY 5226.6 5211.8	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	147	SX 186.1 274.9	SY 8569.4 8550.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	148	SX -2182.4 -2136.0	SY 6918.1 6903.5	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	149	SX -2539.2 -2543.9	SY 3058.1 3069.0	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	150	SX -996.6 -965.5	SY 7045.7 7027.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	151	SX 33.0 20.6	SY 5522.5 5519.1	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	152	SX -475.7 -512.4	SY 7426.1 7433.2	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	153	SX -3185.0 -3273.6	SY 5470.6 5495.4	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0
Nodo	154	SX -1872.4 -1924.1	SY 615.1 600.6	SZ 0.0 0.0	RX 0.0 0.0	RY 0.0 0.0	RZ 0.0 0.0

REAZIONI VINCOLARI

CASO DI CARICO : 3 SLU VENTYO

COMBINAZIONE

N. 10 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.30
2	Peso_proprio_Fondaz	+	1.30
3	Permanente	+	1.50
4	Variabile	+	1.50
5	Var_cop_praticabile	+	1.50
6	Var_cop_non_pratica	+	1.50
7	Variabile_Scale	+	1.50
9	Vento_Y	+-	1.50
10	Neve	+	1.50
11	Spinta_terre	+	1.50

1)	+1.30*c001	+1.30*c002	+1.50*c003	+1.50*c004	+1.50*c005
)	+1.50*c006	+1.50*c007	+1.50*c009	+1.50*c010	+1.50*c011
2)	+1.30*c001	+1.30*c002	+1.50*c003	+1.50*c004	+1.50*c005
)	+1.50*c006	+1.50*c007	-1.50*c009	+1.50*c010	+1.50*c011

Unità di misura: SX,SY,SZ [dan];RX,RY,RZ [danCm]

Coefficiente moltiplicativo: 1.000000

Nodo	SX	SY	SZ	RX	RY	RZ
1	1747.8	-2016.0	0.0	0.0	0.0	0.0
	1339.3	-1917.0	0.0	0.0	0.0	0.0
2	1030.9	-5962.4	0.0	0.0	0.0	0.0
	283.3	-6050.5	0.0	0.0	0.0	0.0
3	936.3	-7677.8	0.0	0.0	0.0	0.0
	541.9	-7452.3	0.0	0.0	0.0	0.0
4	-1249.3	-9024.5	0.0	0.0	0.0	0.0
	-1208.6	-8110.6	0.0	0.0	0.0	0.0
5	-2505.4	-7460.3	0.0	0.0	0.0	0.0
	-2197.9	-7208.7	0.0	0.0	0.0	0.0
6	-1199.7	-9089.9	0.0	0.0	0.0	0.0
	-574.9	-9043.9	0.0	0.0	0.0	0.0
7	1386.4	-5464.8	0.0	0.0	0.0	0.0
	2102.3	-5560.1	0.0	0.0	0.0	0.0
8	90.6	-59.8	0.0	0.0	0.0	0.0
	453.0	-226.0	0.0	0.0	0.0	0.0
9	-4949.8	-4813.6	0.0	0.0	0.0	0.0
	-5103.8	-4399.1	0.0	0.0	0.0	0.0
10	4717.8	-3206.5	0.0	0.0	0.0	0.0
	4845.1	-3454.7	0.0	0.0	0.0	0.0
11	-8153.3	-3213.2	0.0	0.0	0.0	0.0
	-8173.2	-1938.4	0.0	0.0	0.0	0.0
12	8065.4	-2398.0	0.0	0.0	0.0	0.0
	8094.9	-1669.4	0.0	0.0	0.0	0.0
13	-6195.8	-2084.4	0.0	0.0	0.0	0.0
	-6145.7	-668.2	0.0	0.0	0.0	0.0
14	6200.1	-1853.4	0.0	0.0	0.0	0.0
	6200.8	-1188.1	0.0	0.0	0.0	0.0
15	-6136.4	-3639.1	0.0	0.0	0.0	0.0
	-6214.8	-1254.4	0.0	0.0	0.0	0.0
16						

		-925.6	-490.8	0.0	0.0	0.0	0.0
		-913.9	-13.7	0.0	0.0	0.0	0.0
Nodo	17	SX	SY	SZ	RX	RY	RZ
		7315.8	-1980.2	0.0	0.0	0.0	0.0
		7472.1	-590.7	0.0	0.0	0.0	0.0
Nodo	18	SX	SY	SZ	RX	RY	RZ
		-6475.9	-4864.1	0.0	0.0	0.0	0.0
		-6495.9	-2322.2	0.0	0.0	0.0	0.0
Nodo	19	SX	SY	SZ	RX	RY	RZ
		6539.8	-1172.3	0.0	0.0	0.0	0.0
		6579.0	101.4	0.0	0.0	0.0	0.0
Nodo	20	SX	SY	SZ	RX	RY	RZ
		-8674.8	-3593.3	0.0	0.0	0.0	0.0
		-8672.6	-703.7	0.0	0.0	0.0	0.0
Nodo	21	SX	SY	SZ	RX	RY	RZ
		8616.2	627.5	0.0	0.0	0.0	0.0
		8622.8	2258.9	0.0	0.0	0.0	0.0
Nodo	22	SX	SY	SZ	RX	RY	RZ
		-4947.2	-357.1	0.0	0.0	0.0	0.0
		-4899.6	907.3	0.0	0.0	0.0	0.0
Nodo	23	SX	SY	SZ	RX	RY	RZ
		5469.2	1158.2	0.0	0.0	0.0	0.0
		5412.6	1932.5	0.0	0.0	0.0	0.0
Nodo	24	SX	SY	SZ	RX	RY	RZ
		-3076.8	184.8	0.0	0.0	0.0	0.0
		-3044.9	-103.2	0.0	0.0	0.0	0.0
Nodo	25	SX	SY	SZ	RX	RY	RZ
		-6392.2	-5062.3	0.0	0.0	0.0	0.0
		-6458.0	-5070.6	0.0	0.0	0.0	0.0
Nodo	26	SX	SY	SZ	RX	RY	RZ
		-1692.1	-8480.0	0.0	0.0	0.0	0.0
		-1526.9	-8449.9	0.0	0.0	0.0	0.0
Nodo	27	SX	SY	SZ	RX	RY	RZ
		539.5	-6284.4	0.0	0.0	0.0	0.0
		923.1	-6226.0	0.0	0.0	0.0	0.0
Nodo	28	SX	SY	SZ	RX	RY	RZ
		-5591.7	-6048.3	0.0	0.0	0.0	0.0
		-5114.7	-5872.6	0.0	0.0	0.0	0.0
Nodo	29	SX	SY	SZ	RX	RY	RZ
		-10866.6	-4818.7	0.0	0.0	0.0	0.0
		-10323.7	-4770.2	0.0	0.0	0.0	0.0
Nodo	30	SX	SY	SZ	RX	RY	RZ
		-9739.7	-6660.4	0.0	0.0	0.0	0.0
		-8938.0	-6660.3	0.0	0.0	0.0	0.0
Nodo	31	SX	SY	SZ	RX	RY	RZ
		-3738.0	-3462.5	0.0	0.0	0.0	0.0
		-2626.0	-3604.2	0.0	0.0	0.0	0.0
Nodo	32	SX	SY	SZ	RX	RY	RZ
		-1342.5	-1946.4	0.0	0.0	0.0	0.0
		-84.6	-1653.7	0.0	0.0	0.0	0.0
Nodo	33	SX	SY	SZ	RX	RY	RZ
		8736.9	-5107.7	0.0	0.0	0.0	0.0
		8110.4	-4657.7	0.0	0.0	0.0	0.0
Nodo	34	SX	SY	SZ	RX	RY	RZ
		1218.2	2153.0	0.0	0.0	0.0	0.0
		-187.5	2535.2	0.0	0.0	0.0	0.0
Nodo	35	SX	SY	SZ	RX	RY	RZ
		9056.2	-3503.9	0.0	0.0	0.0	0.0
		8122.5	-3300.0	0.0	0.0	0.0	0.0
Nodo	36	SX	SY	SZ	RX	RY	RZ
		6852.1	-5198.9	0.0	0.0	0.0	0.0
		6512.1	-5270.4	0.0	0.0	0.0	0.0
Nodo	37	SX	SY	SZ	RX	RY	RZ
		8001.5	-8378.3	0.0	0.0	0.0	0.0
		8242.0	-8381.1	0.0	0.0	0.0	0.0
Nodo	38	SX	SY	SZ	RX	RY	RZ

		8729.8	-6160.3	0.0	0.0	0.0	0.0
		9088.8	-6181.6	0.0	0.0	0.0	0.0
Nodo	39	SX	SY	SZ	RX	RY	RZ
		3942.1	-6095.5	0.0	0.0	0.0	0.0
		4178.5	-6040.0	0.0	0.0	0.0	0.0
Nodo	40	SX	SY	SZ	RX	RY	RZ
		-1096.9	-5537.9	0.0	0.0	0.0	0.0
		-1091.6	-5573.9	0.0	0.0	0.0	0.0
Nodo	41	SX	SY	SZ	RX	RY	RZ
		284.6	-7579.5	0.0	0.0	0.0	0.0
		341.5	-7557.7	0.0	0.0	0.0	0.0
Nodo	42	SX	SY	SZ	RX	RY	RZ
		2024.8	-5815.4	0.0	0.0	0.0	0.0
		2065.9	-5767.2	0.0	0.0	0.0	0.0
Nodo	43	SX	SY	SZ	RX	RY	RZ
		-249.3	-7355.5	0.0	0.0	0.0	0.0
		-366.2	-6906.5	0.0	0.0	0.0	0.0
Nodo	44	SX	SY	SZ	RX	RY	RZ
		-2571.8	-5227.1	0.0	0.0	0.0	0.0
		-2887.3	-5187.6	0.0	0.0	0.0	0.0
Nodo	45	SX	SY	SZ	RX	RY	RZ
		-1138.0	-6830.5	0.0	0.0	0.0	0.0
		-1387.8	-6793.4	0.0	0.0	0.0	0.0
Nodo	46	SX	SY	SZ	RX	RY	RZ
		409.4	-5249.0	0.0	0.0	0.0	0.0
		178.2	-5202.6	0.0	0.0	0.0	0.0
Nodo	47	SX	SY	SZ	RX	RY	RZ
		-1499.0	-7895.9	0.0	0.0	0.0	0.0
		-1856.4	-7323.7	0.0	0.0	0.0	0.0
Nodo	48	SX	SY	SZ	RX	RY	RZ
		-3117.2	-5940.4	0.0	0.0	0.0	0.0
		-3620.7	-5888.3	0.0	0.0	0.0	0.0
Nodo	49	SX	SY	SZ	RX	RY	RZ
		-891.4	-7625.4	0.0	0.0	0.0	0.0
		-1230.6	-7592.3	0.0	0.0	0.0	0.0
Nodo	50	SX	SY	SZ	RX	RY	RZ
		1297.8	-5786.1	0.0	0.0	0.0	0.0
		1072.8	-5735.1	0.0	0.0	0.0	0.0
Nodo	51	SX	SY	SZ	RX	RY	RZ
		-825.7	-7967.6	0.0	0.0	0.0	0.0
		-1043.7	-7348.2	0.0	0.0	0.0	0.0
Nodo	52	SX	SY	SZ	RX	RY	RZ
		-2783.6	-5877.5	0.0	0.0	0.0	0.0
		-3026.3	-5824.8	0.0	0.0	0.0	0.0
Nodo	53	SX	SY	SZ	RX	RY	RZ
		-771.8	-7745.9	0.0	0.0	0.0	0.0
		-700.5	-7690.6	0.0	0.0	0.0	0.0
Nodo	54	SX	SY	SZ	RX	RY	RZ
		1514.5	-6272.7	0.0	0.0	0.0	0.0
		1829.0	-6121.8	0.0	0.0	0.0	0.0
Nodo	55	SX	SY	SZ	RX	RY	RZ
		-37.4	-8287.0	0.0	0.0	0.0	0.0
		556.3	-7527.5	0.0	0.0	0.0	0.0
Nodo	56	SX	SY	SZ	RX	RY	RZ
		-724.8	-6108.6	0.0	0.0	0.0	0.0
		28.7	-5955.4	0.0	0.0	0.0	0.0
Nodo	57	SX	SY	SZ	RX	RY	RZ
		1696.5	-4705.9	0.0	0.0	0.0	0.0
		2828.4	-4755.0	0.0	0.0	0.0	0.0
Nodo	58	SX	SY	SZ	RX	RY	RZ
		636.6	-1167.9	0.0	0.0	0.0	0.0
		1257.7	-838.2	0.0	0.0	0.0	0.0
Nodo	59	SX	SY	SZ	RX	RY	RZ
		-3553.4	-1909.2	0.0	0.0	0.0	0.0
		-3607.6	-2542.3	0.0	0.0	0.0	0.0
Nodo	60	SX	SY	SZ	RX	RY	RZ

		4098.7	-1760.6	0.0	0.0	0.0	0.0
		4198.7	-1425.3	0.0	0.0	0.0	0.0
Nodo	61	SX	SY	SZ	RX	RY	RZ
		-1070.7	4175.0	0.0	0.0	0.0	0.0
		1197.1	3748.1	0.0	0.0	0.0	0.0
Nodo	62	SX	SY	SZ	RX	RY	RZ
		-2201.4	410.6	0.0	0.0	0.0	0.0
		-2068.7	586.3	0.0	0.0	0.0	0.0
Nodo	63	SX	SY	SZ	RX	RY	RZ
		-1452.2	1974.3	0.0	0.0	0.0	0.0
		-3646.8	3319.2	0.0	0.0	0.0	0.0
Nodo	64	SX	SY	SZ	RX	RY	RZ
		-6437.3	713.3	0.0	0.0	0.0	0.0
		-6458.8	656.9	0.0	0.0	0.0	0.0
Nodo	65	SX	SY	SZ	RX	RY	RZ
		6602.3	456.3	0.0	0.0	0.0	0.0
		6632.4	1946.7	0.0	0.0	0.0	0.0
Nodo	66	SX	SY	SZ	RX	RY	RZ
		189.4	5454.3	0.0	0.0	0.0	0.0
		377.1	2367.3	0.0	0.0	0.0	0.0
Nodo	67	SX	SY	SZ	RX	RY	RZ
		-243.0	897.5	0.0	0.0	0.0	0.0
		-431.2	1232.8	0.0	0.0	0.0	0.0
Nodo	68	SX	SY	SZ	RX	RY	RZ
		-4588.2	1081.5	0.0	0.0	0.0	0.0
		-4604.0	1105.7	0.0	0.0	0.0	0.0
Nodo	69	SX	SY	SZ	RX	RY	RZ
		4973.0	1228.9	0.0	0.0	0.0	0.0
		4970.0	2438.0	0.0	0.0	0.0	0.0
Nodo	70	SX	SY	SZ	RX	RY	RZ
		4399.5	807.4	0.0	0.0	0.0	0.0
		2523.5	-715.1	0.0	0.0	0.0	0.0
Nodo	71	SX	SY	SZ	RX	RY	RZ
		657.0	-781.6	0.0	0.0	0.0	0.0
		98.8	-662.3	0.0	0.0	0.0	0.0
Nodo	72	SX	SY	SZ	RX	RY	RZ
		-4055.4	-2396.2	0.0	0.0	0.0	0.0
		-2475.2	-1433.1	0.0	0.0	0.0	0.0
Nodo	73	SX	SY	SZ	RX	RY	RZ
		-7150.1	-4084.8	0.0	0.0	0.0	0.0
		-7278.4	-3624.3	0.0	0.0	0.0	0.0
Nodo	74	SX	SY	SZ	RX	RY	RZ
		-1365.7	-2189.3	0.0	0.0	0.0	0.0
		-1474.4	-2073.4	0.0	0.0	0.0	0.0
Nodo	75	SX	SY	SZ	RX	RY	RZ
		140.9	-686.1	0.0	0.0	0.0	0.0
		-66.2	-942.8	0.0	0.0	0.0	0.0
Nodo	76	SX	SY	SZ	RX	RY	RZ
		-520.8	-224.0	0.0	0.0	0.0	0.0
		-380.7	660.0	0.0	0.0	0.0	0.0
Nodo	77	SX	SY	SZ	RX	RY	RZ
		2109.8	-638.1	0.0	0.0	0.0	0.0
		2220.5	-1040.0	0.0	0.0	0.0	0.0
Nodo	78	SX	SY	SZ	RX	RY	RZ
		-34.9	319.7	0.0	0.0	0.0	0.0
		-42.1	68.2	0.0	0.0	0.0	0.0
Nodo	79	SX	SY	SZ	RX	RY	RZ
		175.6	-671.7	0.0	0.0	0.0	0.0
		149.8	-457.9	0.0	0.0	0.0	0.0
Nodo	80	SX	SY	SZ	RX	RY	RZ
		-288.5	874.0	0.0	0.0	0.0	0.0
		-321.2	1245.4	0.0	0.0	0.0	0.0
Nodo	81	SX	SY	SZ	RX	RY	RZ
		634.4	2786.0	0.0	0.0	0.0	0.0
		608.4	3210.9	0.0	0.0	0.0	0.0
Nodo	82	SX	SY	SZ	RX	RY	RZ

		62.3	1559.0	0.0	0.0	0.0	0.0
		-10.2	2022.2	0.0	0.0	0.0	0.0
Nodo	83	SX	SY	SZ	RX	RY	RZ
		7812.1	-3247.1	0.0	0.0	0.0	0.0
		7732.5	-1728.8	0.0	0.0	0.0	0.0
Nodo	84	SX	SY	SZ	RX	RY	RZ
		-4651.4	-7819.3	0.0	0.0	0.0	0.0
		-4680.1	-7516.3	0.0	0.0	0.0	0.0
Nodo	85	SX	SY	SZ	RX	RY	RZ
		4713.5	-5385.1	0.0	0.0	0.0	0.0
		4672.1	-4795.2	0.0	0.0	0.0	0.0
Nodo	86	SX	SY	SZ	RX	RY	RZ
		-7376.3	-6548.5	0.0	0.0	0.0	0.0
		-7384.1	-6028.2	0.0	0.0	0.0	0.0
Nodo	87	SX	SY	SZ	RX	RY	RZ
		7291.8	-4782.1	0.0	0.0	0.0	0.0
		7274.9	-3742.9	0.0	0.0	0.0	0.0
Nodo	88	SX	SY	SZ	RX	RY	RZ
		-7944.2	-968.3	0.0	0.0	0.0	0.0
		-7945.3	-468.4	0.0	0.0	0.0	0.0
Nodo	89	SX	SY	SZ	RX	RY	RZ
		7964.6	-916.5	0.0	0.0	0.0	0.0
		7953.5	54.6	0.0	0.0	0.0	0.0
Nodo	90	SX	SY	SZ	RX	RY	RZ
		-7176.4	5024.7	0.0	0.0	0.0	0.0
		-7174.8	5397.9	0.0	0.0	0.0	0.0
Nodo	91	SX	SY	SZ	RX	RY	RZ
		7352.0	3550.8	0.0	0.0	0.0	0.0
		7328.2	4014.1	0.0	0.0	0.0	0.0
Nodo	92	SX	SY	SZ	RX	RY	RZ
		-3346.4	9438.5	0.0	0.0	0.0	0.0
		-3338.7	9603.1	0.0	0.0	0.0	0.0
Nodo	93	SX	SY	SZ	RX	RY	RZ
		3990.4	8136.2	0.0	0.0	0.0	0.0
		3921.1	7534.6	0.0	0.0	0.0	0.0
Nodo	94	SX	SY	SZ	RX	RY	RZ
		516.8	4466.2	0.0	0.0	0.0	0.0
		639.7	4586.8	0.0	0.0	0.0	0.0
Nodo	95	SX	SY	SZ	RX	RY	RZ
		-3299.6	4669.9	0.0	0.0	0.0	0.0
		-3096.2	4632.7	0.0	0.0	0.0	0.0
Nodo	96	SX	SY	SZ	RX	RY	RZ
		1369.8	8292.0	0.0	0.0	0.0	0.0
		1343.0	8297.2	0.0	0.0	0.0	0.0
Nodo	97	SX	SY	SZ	RX	RY	RZ
		4190.2	6464.4	0.0	0.0	0.0	0.0
		4014.4	6550.7	0.0	0.0	0.0	0.0
Nodo	98	SX	SY	SZ	RX	RY	RZ
		1676.4	8532.1	0.0	0.0	0.0	0.0
		1426.2	8965.3	0.0	0.0	0.0	0.0
Nodo	99	SX	SY	SZ	RX	RY	RZ
		-1053.3	5113.0	0.0	0.0	0.0	0.0
		-1242.0	5216.6	0.0	0.0	0.0	0.0
Nodo	100	SX	SY	SZ	RX	RY	RZ
		235.3	6748.8	0.0	0.0	0.0	0.0
		-26.2	6790.9	0.0	0.0	0.0	0.0
Nodo	101	SX	SY	SZ	RX	RY	RZ
		1194.4	5097.4	0.0	0.0	0.0	0.0
		932.9	5144.9	0.0	0.0	0.0	0.0
Nodo	102	SX	SY	SZ	RX	RY	RZ
		-2146.1	10229.9	0.0	0.0	0.0	0.0
		-2278.8	10721.5	0.0	0.0	0.0	0.0
Nodo	103	SX	SY	SZ	RX	RY	RZ
		-5484.9	5624.8	0.0	0.0	0.0	0.0
		-5367.4	5628.8	0.0	0.0	0.0	0.0
Nodo	104	SX	SY	SZ	RX	RY	RZ



		-4365.3	7739.4	0.0	0.0	0.0	0.0
		-4203.6	7651.2	0.0	0.0	0.0	0.0
Nodo	105	SX	SY	SZ	RX	RY	RZ
		-1180.1	6463.0	0.0	0.0	0.0	0.0
		-805.4	6145.1	0.0	0.0	0.0	0.0
Nodo	106	SX	SY	SZ	RX	RY	RZ
		-358.3	4926.9	0.0	0.0	0.0	0.0
		-37.5	3467.0	0.0	0.0	0.0	0.0
Nodo	107	SX	SY	SZ	RX	RY	RZ
		-3062.2	-4655.6	0.0	0.0	0.0	0.0
		-2987.4	-2967.5	0.0	0.0	0.0	0.0
Nodo	108	SX	SY	SZ	RX	RY	RZ
		-8735.8	1545.7	0.0	0.0	0.0	0.0
		-8969.2	2798.5	0.0	0.0	0.0	0.0
Nodo	109	SX	SY	SZ	RX	RY	RZ
		888.6	709.2	0.0	0.0	0.0	0.0
		948.2	714.7	0.0	0.0	0.0	0.0
Nodo	110	SX	SY	SZ	RX	RY	RZ
		2962.5	97.3	0.0	0.0	0.0	0.0
		3124.9	158.5	0.0	0.0	0.0	0.0
Nodo	111	SX	SY	SZ	RX	RY	RZ
		5707.2	8067.0	0.0	0.0	0.0	0.0
		5992.9	8721.6	0.0	0.0	0.0	0.0
Nodo	112	SX	SY	SZ	RX	RY	RZ
		3828.0	-22263.2	0.0	0.0	0.0	0.0
		4136.1	-23505.8	0.0	0.0	0.0	0.0
Nodo	113	SX	SY	SZ	RX	RY	RZ
		-3123.4	20441.2	0.0	0.0	0.0	0.0
		-3111.6	21680.5	0.0	0.0	0.0	0.0
Nodo	114	SX	SY	SZ	RX	RY	RZ
		2959.1	6371.3	0.0	0.0	0.0	0.0
		2815.4	6349.2	0.0	0.0	0.0	0.0
Nodo	115	SX	SY	SZ	RX	RY	RZ
		7464.7	7443.8	0.0	0.0	0.0	0.0
		6859.5	7442.4	0.0	0.0	0.0	0.0
Nodo	116	SX	SY	SZ	RX	RY	RZ
		8496.5	5312.8	0.0	0.0	0.0	0.0
		7978.7	5392.8	0.0	0.0	0.0	0.0
Nodo	117	SX	SY	SZ	RX	RY	RZ
		4879.0	7631.0	0.0	0.0	0.0	0.0
		4563.7	8309.8	0.0	0.0	0.0	0.0
Nodo	118	SX	SY	SZ	RX	RY	RZ
		565.1	5030.7	0.0	0.0	0.0	0.0
		610.9	5120.2	0.0	0.0	0.0	0.0
Nodo	119	SX	SY	SZ	RX	RY	RZ
		1357.2	6740.1	0.0	0.0	0.0	0.0
		1379.6	6785.3	0.0	0.0	0.0	0.0
Nodo	120	SX	SY	SZ	RX	RY	RZ
		2124.8	4631.1	0.0	0.0	0.0	0.0
		2180.4	4668.7	0.0	0.0	0.0	0.0
Nodo	121	SX	SY	SZ	RX	RY	RZ
		-1177.9	7031.1	0.0	0.0	0.0	0.0
		-1000.0	7736.8	0.0	0.0	0.0	0.0
Nodo	122	SX	SY	SZ	RX	RY	RZ
		-3601.6	5342.5	0.0	0.0	0.0	0.0
		-3237.6	5375.0	0.0	0.0	0.0	0.0
Nodo	123	SX	SY	SZ	RX	RY	RZ
		-81.7	7609.0	0.0	0.0	0.0	0.0
		142.8	7638.6	0.0	0.0	0.0	0.0
Nodo	124	SX	SY	SZ	RX	RY	RZ
		2913.4	4956.4	0.0	0.0	0.0	0.0
		3033.7	4983.3	0.0	0.0	0.0	0.0
Nodo	125	SX	SY	SZ	RX	RY	RZ
		-1064.4	5308.9	0.0	0.0	0.0	0.0
		-1023.4	5989.8	0.0	0.0	0.0	0.0
Nodo	126	SX	SY	SZ	RX	RY	RZ

		-5080.5	5003.0	0.0	0.0	0.0	0.0
		-5064.1	5026.7	0.0	0.0	0.0	0.0
Nodo	127	SX	SY	SZ	RX	RY	RZ
		-2277.1	7653.0	0.0	0.0	0.0	0.0
		-2609.6	7709.5	0.0	0.0	0.0	0.0
Nodo	128	SX	SY	SZ	RX	RY	RZ
		1335.3	5272.9	0.0	0.0	0.0	0.0
		832.9	5391.9	0.0	0.0	0.0	0.0
Nodo	129	SX	SY	SZ	RX	RY	RZ
		-189.8	5560.5	0.0	0.0	0.0	0.0
		-593.1	6132.1	0.0	0.0	0.0	0.0
Nodo	130	SX	SY	SZ	RX	RY	RZ
		-1661.1	4915.9	0.0	0.0	0.0	0.0
		-1978.1	5016.9	0.0	0.0	0.0	0.0
Nodo	131	SX	SY	SZ	RX	RY	RZ
		335.8	4430.0	0.0	0.0	0.0	0.0
		-320.0	4398.7	0.0	0.0	0.0	0.0
Nodo	132	SX	SY	SZ	RX	RY	RZ
		-2090.5	5290.3	0.0	0.0	0.0	0.0
		-2362.5	5035.6	0.0	0.0	0.0	0.0
Nodo	133	SX	SY	SZ	RX	RY	RZ
		-3967.8	-2348.2	0.0	0.0	0.0	0.0
		-4120.6	-1890.5	0.0	0.0	0.0	0.0
Nodo	134	SX	SY	SZ	RX	RY	RZ
		4394.6	84.1	0.0	0.0	0.0	0.0
		4464.5	568.3	0.0	0.0	0.0	0.0
Nodo	135	SX	SY	SZ	RX	RY	RZ
		-7591.6	-1671.6	0.0	0.0	0.0	0.0
		-7450.3	-458.7	0.0	0.0	0.0	0.0
Nodo	136	SX	SY	SZ	RX	RY	RZ
		5844.5	-4030.1	0.0	0.0	0.0	0.0
		5862.4	-2921.4	0.0	0.0	0.0	0.0
Nodo	137	SX	SY	SZ	RX	RY	RZ
		-5934.3	477.5	0.0	0.0	0.0	0.0
		-5752.0	1385.5	0.0	0.0	0.0	0.0
Nodo	138	SX	SY	SZ	RX	RY	RZ
		4351.5	-1506.3	0.0	0.0	0.0	0.0
		4389.6	-1101.5	0.0	0.0	0.0	0.0
Nodo	139	SX	SY	SZ	RX	RY	RZ
		-367.8	-955.5	0.0	0.0	0.0	0.0
		-420.8	-1187.0	0.0	0.0	0.0	0.0
Nodo	140	SX	SY	SZ	RX	RY	RZ
		5348.3	-500.9	0.0	0.0	0.0	0.0
		5440.3	56.6	0.0	0.0	0.0	0.0
Nodo	141	SX	SY	SZ	RX	RY	RZ
		-7062.4	-60.5	0.0	0.0	0.0	0.0
		-6834.0	866.1	0.0	0.0	0.0	0.0
Nodo	142	SX	SY	SZ	RX	RY	RZ
		3505.0	2411.0	0.0	0.0	0.0	0.0
		3567.6	2743.9	0.0	0.0	0.0	0.0
Nodo	143	SX	SY	SZ	RX	RY	RZ
		-4202.5	396.9	0.0	0.0	0.0	0.0
		-4155.3	578.6	0.0	0.0	0.0	0.0
Nodo	144	SX	SY	SZ	RX	RY	RZ
		1248.6	-127.7	0.0	0.0	0.0	0.0
		913.6	305.5	0.0	0.0	0.0	0.0
Nodo	145	SX	SY	SZ	RX	RY	RZ
		-5064.5	1280.0	0.0	0.0	0.0	0.0
		-5009.2	1474.3	0.0	0.0	0.0	0.0
Nodo	146	SX	SY	SZ	RX	RY	RZ
		2952.4	5174.3	0.0	0.0	0.0	0.0
		2356.0	5264.1	0.0	0.0	0.0	0.0
Nodo	147	SX	SY	SZ	RX	RY	RZ
		555.3	8491.9	0.0	0.0	0.0	0.0
		-94.4	8627.7	0.0	0.0	0.0	0.0
Nodo	148	SX	SY	SZ	RX	RY	RZ

		-2002.6	6859.4	0.0	0.0	0.0	0.0
		-2315.8	6962.2	0.0	0.0	0.0	0.0
Nodo	149	SX	SY	SZ	RX	RY	RZ
		-2561.2	3081.7	0.0	0.0	0.0	0.0
		-2521.8	3045.4	0.0	0.0	0.0	0.0
Nodo	150	SX	SY	SZ	RX	RY	RZ
		-846.9	6969.4	0.0	0.0	0.0	0.0
		-1115.2	7103.5	0.0	0.0	0.0	0.0
Nodo	151	SX	SY	SZ	RX	RY	RZ
		-13.8	5506.3	0.0	0.0	0.0	0.0
		67.4	5535.3	0.0	0.0	0.0	0.0
Nodo	152	SX	SY	SZ	RX	RY	RZ
		-604.9	7451.5	0.0	0.0	0.0	0.0
		-383.2	7407.9	0.0	0.0	0.0	0.0
Nodo	153	SX	SY	SZ	RX	RY	RZ
		-3550.5	5573.9	0.0	0.0	0.0	0.0
		-2908.1	5392.1	0.0	0.0	0.0	0.0
Nodo	154	SX	SY	SZ	RX	RY	RZ
		-2072.8	579.3	0.0	0.0	0.0	0.0
		-1723.8	636.4	0.0	0.0	0.0	0.0

REAZIONI VINCOLARI

CASO DI CARICO : 6 SLU con SISMAX PRINC COMBINAZIONE

N. 6 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.00
2	Peso_proprio_Fondaz	+	1.00
3	Permanente	+	1.00
4	Variabile	+	0.30
7	Variabile_Scale	+	0.60
11	Spinta_terre	+	1.00

N. 2 CASI DI CARICO

4	SISMAX SLU	1.00
5	SISMAY SLU	0.30

1)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.001	+0.30*c005.001		
2)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.001	+0.30*c005.002		
3)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.001	+0.30*c005.003		
4)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.001	+0.30*c005.004		
5)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.002	+0.30*c005.001		
6)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.002	+0.30*c005.002		
7)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.002	+0.30*c005.003		
8)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.002	+0.30*c005.004		
9)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.003	+0.30*c005.001		
10)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.003	+0.30*c005.002		
11)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.003	+0.30*c005.003		
12)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.003	+0.30*c005.004		
13)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.004	+0.30*c005.001		
14)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.004	+0.30*c005.002		
15)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.004	+0.30*c005.003		
16)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c004.004	+0.30*c005.004		

Unità di misura: SX,SY,SZ [daN];RX,RY,RZ [daNcm]

Coefficiente moltiplicativo: 1.000000

Nodo	1	SX	SY	SZ	RX	RY	RZ
		268.5	-1116.7	0.0	0.0	0.0	0.0
		324.1	-1236.0	0.0	0.0	0.0	0.0
		912.6	-1630.0	0.0	0.0	0.0	0.0
		968.2	-1749.3	0.0	0.0	0.0	0.0
		184.6	-942.4	0.0	0.0	0.0	0.0
		240.2	-1061.7	0.0	0.0	0.0	0.0
		828.7	-1455.7	0.0	0.0	0.0	0.0

		884.3	-1575.0	0.0	0.0	0.0	0.0
		952.6	-840.1	0.0	0.0	0.0	0.0
		1008.2	-959.3	0.0	0.0	0.0	0.0
		1596.7	-1353.4	0.0	0.0	0.0	0.0
		1652.3	-1472.7	0.0	0.0	0.0	0.0
		868.7	-665.8	0.0	0.0	0.0	0.0
		924.3	-785.1	0.0	0.0	0.0	0.0
		1512.8	-1179.1	0.0	0.0	0.0	0.0
		1568.4	-1298.4	0.0	0.0	0.0	0.0
Nodo	2	SX	SY	SZ	RX	RY	RZ
		-837.2	-4174.4	0.0	0.0	0.0	0.0
		-798.4	-4164.2	0.0	0.0	0.0	0.0
		189.6	-4035.7	0.0	0.0	0.0	0.0
		228.5	-4025.4	0.0	0.0	0.0	0.0
		-961.3	-4180.8	0.0	0.0	0.0	0.0
		-922.5	-4170.6	0.0	0.0	0.0	0.0
		65.5	-4042.0	0.0	0.0	0.0	0.0
		104.3	-4031.8	0.0	0.0	0.0	0.0
		385.0	-4003.2	0.0	0.0	0.0	0.0
		423.8	-3992.9	0.0	0.0	0.0	0.0
		1411.9	-3864.4	0.0	0.0	0.0	0.0
		1450.7	-3854.2	0.0	0.0	0.0	0.0
		260.9	-4009.5	0.0	0.0	0.0	0.0
		299.7	-3999.3	0.0	0.0	0.0	0.0
		1287.8	-3870.8	0.0	0.0	0.0	0.0
		1326.6	-3860.5	0.0	0.0	0.0	0.0
Nodo	3	SX	SY	SZ	RX	RY	RZ
		132.9	-4937.9	0.0	0.0	0.0	0.0
		257.3	-4983.7	0.0	0.0	0.0	0.0
		866.5	-5313.9	0.0	0.0	0.0	0.0
		990.9	-5359.7	0.0	0.0	0.0	0.0
		-118.4	-4888.6	0.0	0.0	0.0	0.0
		5.9	-4934.4	0.0	0.0	0.0	0.0
		615.2	-5264.5	0.0	0.0	0.0	0.0
		739.5	-5310.3	0.0	0.0	0.0	0.0
		-456.4	-4847.9	0.0	0.0	0.0	0.0
		-332.1	-4893.7	0.0	0.0	0.0	0.0
		277.1	-5223.9	0.0	0.0	0.0	0.0
		401.5	-5269.7	0.0	0.0	0.0	0.0
		-707.8	-4798.5	0.0	0.0	0.0	0.0
		-583.5	-4844.3	0.0	0.0	0.0	0.0
		25.8	-5174.5	0.0	0.0	0.0	0.0
		150.1	-5220.3	0.0	0.0	0.0	0.0
Nodo	4	SX	SY	SZ	RX	RY	RZ
		1098.7	-5539.5	0.0	0.0	0.0	0.0
		1336.0	-5698.8	0.0	0.0	0.0	0.0
		374.1	-6994.5	0.0	0.0	0.0	0.0
		611.4	-7153.9	0.0	0.0	0.0	0.0
		691.6	-5355.5	0.0	0.0	0.0	0.0
		929.0	-5514.8	0.0	0.0	0.0	0.0
		-33.0	-6810.5	0.0	0.0	0.0	0.0
		204.3	-6969.9	0.0	0.0	0.0	0.0
		-1579.3	-5005.4	0.0	0.0	0.0	0.0
		-1341.9	-5164.7	0.0	0.0	0.0	0.0
		-2303.9	-6460.4	0.0	0.0	0.0	0.0
		-2066.6	-6619.8	0.0	0.0	0.0	0.0
		-1986.3	-4821.4	0.0	0.0	0.0	0.0
		-1749.0	-4980.7	0.0	0.0	0.0	0.0
		-2711.0	-6276.4	0.0	0.0	0.0	0.0
		-2473.7	-6435.8	0.0	0.0	0.0	0.0
Nodo	5	SX	SY	SZ	RX	RY	RZ
		206.0	-4809.0	0.0	0.0	0.0	0.0
		316.4	-4849.1	0.0	0.0	0.0	0.0
		-240.0	-5197.7	0.0	0.0	0.0	0.0
		-129.6	-5237.7	0.0	0.0	0.0	0.0
		-50.7	-4759.1	0.0	0.0	0.0	0.0
		59.7	-4799.1	0.0	0.0	0.0	0.0
		-496.7	-5147.8	0.0	0.0	0.0	0.0
		-386.3	-5187.8	0.0	0.0	0.0	0.0
		-1759.7	-4668.3	0.0	0.0	0.0	0.0
		-1649.3	-4708.3	0.0	0.0	0.0	0.0
		-2205.7	-5057.0	0.0	0.0	0.0	0.0
		-2095.3	-5097.0	0.0	0.0	0.0	0.0
		-2016.4	-4618.4	0.0	0.0	0.0	0.0
		-1906.0	-4658.4	0.0	0.0	0.0	0.0
		-2462.4	-5007.0	0.0	0.0	0.0	0.0
		-2352.0	-5047.0	0.0	0.0	0.0	0.0
Nodo	6	SX	SY	SZ	RX	RY	RZ
		1625.5	-6007.0	0.0	0.0	0.0	0.0
		1800.1	-6010.1	0.0	0.0	0.0	0.0
		792.5	-6055.3	0.0	0.0	0.0	0.0
		967.2	-6058.4	0.0	0.0	0.0	0.0
		1284.3	-6007.6	0.0	0.0	0.0	0.0

		1459.0	-6010.7	0.0	0.0	0.0	0.0
		451.3	-6055.9	0.0	0.0	0.0	0.0
		626.0	-6059.0	0.0	0.0	0.0	0.0
		-1342.6	-6029.5	0.0	0.0	0.0	0.0
		-1167.9	-6032.6	0.0	0.0	0.0	0.0
		-2175.5	-6077.8	0.0	0.0	0.0	0.0
		-2000.9	-6080.9	0.0	0.0	0.0	0.0
		-1683.8	-6030.1	0.0	0.0	0.0	0.0
		-1509.1	-6033.2	0.0	0.0	0.0	0.0
		-2516.7	-6078.4	0.0	0.0	0.0	0.0
		-2342.0	-6081.5	0.0	0.0	0.0	0.0
Nodo	7	SX	SY	SZ	RX	RY	RZ
		2168.6	-3647.5	0.0	0.0	0.0	0.0
		2187.8	-3629.7	0.0	0.0	0.0	0.0
		1244.3	-3467.9	0.0	0.0	0.0	0.0
		1263.5	-3450.1	0.0	0.0	0.0	0.0
		2067.3	-3695.7	0.0	0.0	0.0	0.0
		2086.5	-3678.0	0.0	0.0	0.0	0.0
		1143.1	-3516.2	0.0	0.0	0.0	0.0
		1162.2	-3498.4	0.0	0.0	0.0	0.0
		797.2	-3833.9	0.0	0.0	0.0	0.0
		816.4	-3816.1	0.0	0.0	0.0	0.0
		-127.0	-3654.3	0.0	0.0	0.0	0.0
		-107.9	-3636.5	0.0	0.0	0.0	0.0
		695.9	-3882.1	0.0	0.0	0.0	0.0
		715.1	-3864.3	0.0	0.0	0.0	0.0
		-228.3	-3702.5	0.0	0.0	0.0	0.0
		-209.2	-3684.8	0.0	0.0	0.0	0.0
Nodo	8	SX	SY	SZ	RX	RY	RZ
		650.2	228.5	0.0	0.0	0.0	0.0
		683.9	310.5	0.0	0.0	0.0	0.0
		161.4	526.5	0.0	0.0	0.0	0.0
		195.1	608.5	0.0	0.0	0.0	0.0
		634.2	121.5	0.0	0.0	0.0	0.0
		667.9	203.5	0.0	0.0	0.0	0.0
		145.4	419.4	0.0	0.0	0.0	0.0
		179.1	501.4	0.0	0.0	0.0	0.0
		-174.0	-808.5	0.0	0.0	0.0	0.0
		-140.3	-726.5	0.0	0.0	0.0	0.0
		-662.8	-510.5	0.0	0.0	0.0	0.0
		-629.1	-428.5	0.0	0.0	0.0	0.0
		-190.0	-915.6	0.0	0.0	0.0	0.0
		-156.3	-833.5	0.0	0.0	0.0	0.0
		-678.8	-617.6	0.0	0.0	0.0	0.0
		-645.1	-535.6	0.0	0.0	0.0	0.0
Nodo	9	SX	SY	SZ	RX	RY	RZ
		-3559.1	-2717.6	0.0	0.0	0.0	0.0
		-3553.1	-2979.4	0.0	0.0	0.0	0.0
		-3375.0	-4026.3	0.0	0.0	0.0	0.0
		-3368.9	-4288.1	0.0	0.0	0.0	0.0
		-3555.6	-2358.6	0.0	0.0	0.0	0.0
		-3549.6	-2620.4	0.0	0.0	0.0	0.0
		-3371.5	-3667.3	0.0	0.0	0.0	0.0
		-3365.4	-3929.1	0.0	0.0	0.0	0.0
		-3360.0	-2014.9	0.0	0.0	0.0	0.0
		-3354.0	-2276.7	0.0	0.0	0.0	0.0
		-3175.8	-3323.6	0.0	0.0	0.0	0.0
		-3169.8	-3585.4	0.0	0.0	0.0	0.0
		-3356.5	-1655.9	0.0	0.0	0.0	0.0
		-3350.5	-1917.7	0.0	0.0	0.0	0.0
		-3172.3	-2964.6	0.0	0.0	0.0	0.0
		-3166.3	-3226.4	0.0	0.0	0.0	0.0
Nodo	10	SX	SY	SZ	RX	RY	RZ
		3186.5	-1603.7	0.0	0.0	0.0	0.0
		3159.1	-1508.6	0.0	0.0	0.0	0.0
		3017.4	-1200.8	0.0	0.0	0.0	0.0
		2990.1	-1105.7	0.0	0.0	0.0	0.0
		3207.5	-1745.9	0.0	0.0	0.0	0.0
		3180.2	-1650.8	0.0	0.0	0.0	0.0
		3038.4	-1343.0	0.0	0.0	0.0	0.0
		3011.1	-1248.0	0.0	0.0	0.0	0.0
		3356.2	-3340.0	0.0	0.0	0.0	0.0
		3328.8	-3244.9	0.0	0.0	0.0	0.0
		3187.1	-2937.1	0.0	0.0	0.0	0.0
		3159.8	-2842.1	0.0	0.0	0.0	0.0
		3377.2	-3482.2	0.0	0.0	0.0	0.0
		3349.9	-3387.2	0.0	0.0	0.0	0.0
		3208.1	-3079.3	0.0	0.0	0.0	0.0
		3180.8	-2984.3	0.0	0.0	0.0	0.0
Nodo	11	SX	SY	SZ	RX	RY	RZ
		-5422.3	-635.5	0.0	0.0	0.0	0.0
		-5414.0	-1015.7	0.0	0.0	0.0	0.0
		-5387.1	-2998.0	0.0	0.0	0.0	0.0

		-5378.8	-3378.3	0.0	0.0	0.0	0.0
		-5435.1	-146.3	0.0	0.0	0.0	0.0
		-5426.9	-526.5	0.0	0.0	0.0	0.0
		-5400.0	-2508.8	0.0	0.0	0.0	0.0
		-5391.7	-2889.1	0.0	0.0	0.0	0.0
		-5493.8	-1049.2	0.0	0.0	0.0	0.0
		-5485.6	-1429.4	0.0	0.0	0.0	0.0
		-5458.7	-3411.7	0.0	0.0	0.0	0.0
		-5450.4	-3792.0	0.0	0.0	0.0	0.0
		-5506.7	-560.0	0.0	0.0	0.0	0.0
		-5498.4	-940.2	0.0	0.0	0.0	0.0
		-5471.5	-2922.5	0.0	0.0	0.0	0.0
		-5463.2	-3302.8	0.0	0.0	0.0	0.0
Nodo	12	SX	SY	SZ	RX	RY	RZ
		5459.0	-714.7	0.0	0.0	0.0	0.0
		5461.1	-677.2	0.0	0.0	0.0	0.0
		5434.3	-1597.8	0.0	0.0	0.0	0.0
		5436.4	-1560.4	0.0	0.0	0.0	0.0
		5413.6	-783.8	0.0	0.0	0.0	0.0
		5415.8	-746.4	0.0	0.0	0.0	0.0
		5388.9	-1667.0	0.0	0.0	0.0	0.0
		5391.1	-1629.6	0.0	0.0	0.0	0.0
		5381.6	-1884.4	0.0	0.0	0.0	0.0
		5383.8	-1846.9	0.0	0.0	0.0	0.0
		5356.9	-2767.5	0.0	0.0	0.0	0.0
		5359.1	-2730.1	0.0	0.0	0.0	0.0
		5336.2	-1953.5	0.0	0.0	0.0	0.0
		5338.4	-1916.1	0.0	0.0	0.0	0.0
		5311.5	-2836.7	0.0	0.0	0.0	0.0
		5313.7	-2799.3	0.0	0.0	0.0	0.0
Nodo	13	SX	SY	SZ	RX	RY	RZ
		-3897.2	479.6	0.0	0.0	0.0	0.0
		-3876.6	145.5	0.0	0.0	0.0	0.0
		-3973.4	-1900.4	0.0	0.0	0.0	0.0
		-3952.7	-2234.5	0.0	0.0	0.0	0.0
		-3956.8	892.8	0.0	0.0	0.0	0.0
		-3936.1	558.7	0.0	0.0	0.0	0.0
		-4032.9	-1487.2	0.0	0.0	0.0	0.0
		-4012.2	-1821.3	0.0	0.0	0.0	0.0
		-4252.1	-843.7	0.0	0.0	0.0	0.0
		-4231.5	-1177.8	0.0	0.0	0.0	0.0
		-4328.3	-3223.7	0.0	0.0	0.0	0.0
		-4307.6	-3557.7	0.0	0.0	0.0	0.0
		-4311.7	-430.5	0.0	0.0	0.0	0.0
		-4291.0	-764.6	0.0	0.0	0.0	0.0
		-4387.8	-2810.5	0.0	0.0	0.0	0.0
		-4367.1	-3144.5	0.0	0.0	0.0	0.0
Nodo	14	SX	SY	SZ	RX	RY	RZ
		4350.7	-793.6	0.0	0.0	0.0	0.0
		4379.0	-803.6	0.0	0.0	0.0	0.0
		4437.4	-1569.1	0.0	0.0	0.0	0.0
		4465.7	-1579.1	0.0	0.0	0.0	0.0
		4267.8	-786.3	0.0	0.0	0.0	0.0
		4296.1	-796.4	0.0	0.0	0.0	0.0
		4354.5	-1561.8	0.0	0.0	0.0	0.0
		4382.8	-1571.9	0.0	0.0	0.0	0.0
		3901.6	-1337.0	0.0	0.0	0.0	0.0
		3929.9	-1347.1	0.0	0.0	0.0	0.0
		3988.3	-2112.5	0.0	0.0	0.0	0.0
		4016.6	-2122.6	0.0	0.0	0.0	0.0
		3818.7	-1329.8	0.0	0.0	0.0	0.0
		3847.0	-1339.8	0.0	0.0	0.0	0.0
		3905.4	-2105.3	0.0	0.0	0.0	0.0
		3933.7	-2115.4	0.0	0.0	0.0	0.0
Nodo	15	SX	SY	SZ	RX	RY	RZ
		-3790.8	1742.2	0.0	0.0	0.0	0.0
		-3665.2	1181.4	0.0	0.0	0.0	0.0
		-3345.9	-2393.2	0.0	0.0	0.0	0.0
		-3220.3	-2954.0	0.0	0.0	0.0	0.0
		-4117.8	2442.7	0.0	0.0	0.0	0.0
		-3992.2	1881.9	0.0	0.0	0.0	0.0
		-3672.9	-1692.7	0.0	0.0	0.0	0.0
		-3547.3	-2253.5	0.0	0.0	0.0	0.0
		-5198.6	-1062.3	0.0	0.0	0.0	0.0
		-5073.0	-1623.1	0.0	0.0	0.0	0.0
		-4753.7	-5197.7	0.0	0.0	0.0	0.0
		-4628.1	-5758.5	0.0	0.0	0.0	0.0
		-5525.6	-361.8	0.0	0.0	0.0	0.0
		-5400.0	-922.6	0.0	0.0	0.0	0.0
		-5080.7	-4497.2	0.0	0.0	0.0	0.0
		-4955.1	-5058.0	0.0	0.0	0.0	0.0
Nodo	16	SX	SY	SZ	RX	RY	RZ
		-335.6	-114.1	0.0	0.0	0.0	0.0

		-328.4	-188.5	0.0	0.0	0.0	0.0
		-357.3	-794.7	0.0	0.0	0.0	0.0
		-350.1	-869.1	0.0	0.0	0.0	0.0
		-521.4	-28.5	0.0	0.0	0.0	0.0
		-514.3	-102.8	0.0	0.0	0.0	0.0
		-543.1	-709.1	0.0	0.0	0.0	0.0
		-535.9	-783.5	0.0	0.0	0.0	0.0
		-510.2	226.9	0.0	0.0	0.0	0.0
		-503.1	152.5	0.0	0.0	0.0	0.0
		-531.9	-453.7	0.0	0.0	0.0	0.0
		-524.8	-528.1	0.0	0.0	0.0	0.0
		-696.1	312.5	0.0	0.0	0.0	0.0
		-688.9	238.1	0.0	0.0	0.0	0.0
		-717.7	-368.1	0.0	0.0	0.0	0.0
		-710.6	-442.5	0.0	0.0	0.0	0.0
Nodo	17	SX	SY	SZ	RX	RY	RZ
		6193.3	137.8	0.0	0.0	0.0	0.0
		6274.4	77.2	0.0	0.0	0.0	0.0
		5911.4	-1730.1	0.0	0.0	0.0	0.0
		5992.5	-1790.7	0.0	0.0	0.0	0.0
		5938.4	197.3	0.0	0.0	0.0	0.0
		6019.5	136.8	0.0	0.0	0.0	0.0
		5656.5	-1670.6	0.0	0.0	0.0	0.0
		5737.6	-1731.1	0.0	0.0	0.0	0.0
		4324.2	-159.8	0.0	0.0	0.0	0.0
		4405.3	-220.4	0.0	0.0	0.0	0.0
		4042.3	-2027.7	0.0	0.0	0.0	0.0
		4123.4	-2088.3	0.0	0.0	0.0	0.0
		4069.3	-100.3	0.0	0.0	0.0	0.0
		4150.4	-160.8	0.0	0.0	0.0	0.0
		3787.4	-1968.2	0.0	0.0	0.0	0.0
		3868.5	-2028.7	0.0	0.0	0.0	0.0
Nodo	18	SX	SY	SZ	RX	RY	RZ
		-4175.2	2285.1	0.0	0.0	0.0	0.0
		-4148.5	1710.8	0.0	0.0	0.0	0.0
		-4079.6	-2115.3	0.0	0.0	0.0	0.0
		-4053.0	-2689.5	0.0	0.0	0.0	0.0
		-4260.6	3003.6	0.0	0.0	0.0	0.0
		-4234.0	2429.3	0.0	0.0	0.0	0.0
		-4165.1	-1396.8	0.0	0.0	0.0	0.0
		-4138.4	-1971.0	0.0	0.0	0.0	0.0
		-4545.9	-1854.9	0.0	0.0	0.0	0.0
		-4519.2	-2429.2	0.0	0.0	0.0	0.0
		-4450.3	-6255.3	0.0	0.0	0.0	0.0
		-4423.6	-6829.5	0.0	0.0	0.0	0.0
		-4631.3	-1136.4	0.0	0.0	0.0	0.0
		-4604.6	-1710.7	0.0	0.0	0.0	0.0
		-4535.7	-5536.8	0.0	0.0	0.0	0.0
		-4509.1	-6111.0	0.0	0.0	0.0	0.0
Nodo	19	SX	SY	SZ	RX	RY	RZ
		4652.8	827.8	0.0	0.0	0.0	0.0
		4668.2	743.3	0.0	0.0	0.0	0.0
		4589.2	-942.9	0.0	0.0	0.0	0.0
		4604.6	-1027.3	0.0	0.0	0.0	0.0
		4593.5	914.1	0.0	0.0	0.0	0.0
		4608.9	829.7	0.0	0.0	0.0	0.0
		4529.9	-856.5	0.0	0.0	0.0	0.0
		4545.3	-941.0	0.0	0.0	0.0	0.0
		4218.8	751.2	0.0	0.0	0.0	0.0
		4234.2	666.8	0.0	0.0	0.0	0.0
		4155.2	-1019.4	0.0	0.0	0.0	0.0
		4170.6	-1103.9	0.0	0.0	0.0	0.0
		4159.5	837.6	0.0	0.0	0.0	0.0
		4174.9	753.1	0.0	0.0	0.0	0.0
		4095.9	-933.1	0.0	0.0	0.0	0.0
		4111.3	-1017.5	0.0	0.0	0.0	0.0
Nodo	20	SX	SY	SZ	RX	RY	RZ
		-5749.7	4355.6	0.0	0.0	0.0	0.0
		-5746.2	3717.5	0.0	0.0	0.0	0.0
		-5758.8	-641.4	0.0	0.0	0.0	0.0
		-5755.4	-1279.6	0.0	0.0	0.0	0.0
		-5776.2	5141.9	0.0	0.0	0.0	0.0
		-5772.8	4503.7	0.0	0.0	0.0	0.0
		-5785.4	144.8	0.0	0.0	0.0	0.0
		-5782.0	-493.3	0.0	0.0	0.0	0.0
		-5785.4	-1700.4	0.0	0.0	0.0	0.0
		-5782.0	-2338.5	0.0	0.0	0.0	0.0
		-5794.6	-6697.4	0.0	0.0	0.0	0.0
		-5791.2	-7335.6	0.0	0.0	0.0	0.0
		-5812.0	-914.1	0.0	0.0	0.0	0.0
		-5808.5	-1552.3	0.0	0.0	0.0	0.0
		-5821.2	-5911.2	0.0	0.0	0.0	0.0
		-5817.7	-6549.3	0.0	0.0	0.0	0.0

Nodo	21	SX	SY	SZ	RX	RY	RZ
		5797.3	1909.0	0.0	0.0	0.0	0.0
		5801.3	1807.7	0.0	0.0	0.0	0.0
		5785.2	-391.8	0.0	0.0	0.0	0.0
		5789.2	-493.1	0.0	0.0	0.0	0.0
		5766.8	2019.6	0.0	0.0	0.0	0.0
		5770.8	1918.4	0.0	0.0	0.0	0.0
		5754.7	-281.2	0.0	0.0	0.0	0.0
		5758.7	-382.5	0.0	0.0	0.0	0.0
		5738.5	2417.2	0.0	0.0	0.0	0.0
		5742.5	2315.9	0.0	0.0	0.0	0.0
		5726.4	116.3	0.0	0.0	0.0	0.0
		5730.4	15.1	0.0	0.0	0.0	0.0
		5707.9	2527.8	0.0	0.0	0.0	0.0
		5711.9	2426.6	0.0	0.0	0.0	0.0
		5695.8	227.0	0.0	0.0	0.0	0.0
		5699.8	125.7	0.0	0.0	0.0	0.0
Nodo	22	SX	SY	SZ	RX	RY	RZ
		-3538.8	4503.1	0.0	0.0	0.0	0.0
		-3558.5	4346.8	0.0	0.0	0.0	0.0
		-3649.6	2644.1	0.0	0.0	0.0	0.0
		-3669.2	2487.9	0.0	0.0	0.0	0.0
		-3504.4	4656.0	0.0	0.0	0.0	0.0
		-3524.0	4499.7	0.0	0.0	0.0	0.0
		-3615.1	2797.1	0.0	0.0	0.0	0.0
		-3634.7	2640.8	0.0	0.0	0.0	0.0
		-2996.7	-2497.6	0.0	0.0	0.0	0.0
		-3016.3	-2653.9	0.0	0.0	0.0	0.0
		-3107.4	-4356.6	0.0	0.0	0.0	0.0
		-3127.0	-4512.8	0.0	0.0	0.0	0.0
		-2962.2	-2344.7	0.0	0.0	0.0	0.0
		-2981.9	-2500.9	0.0	0.0	0.0	0.0
		-3073.0	-4203.6	0.0	0.0	0.0	0.0
		-3092.6	-4359.9	0.0	0.0	0.0	0.0
Nodo	23	SX	SY	SZ	RX	RY	RZ
		3435.8	488.3	0.0	0.0	0.0	0.0
		3437.7	421.6	0.0	0.0	0.0	0.0
		3540.6	-526.1	0.0	0.0	0.0	0.0
		3542.4	-592.9	0.0	0.0	0.0	0.0
		3437.9	586.8	0.0	0.0	0.0	0.0
		3439.8	520.0	0.0	0.0	0.0	0.0
		3542.7	-427.7	0.0	0.0	0.0	0.0
		3544.5	-494.5	0.0	0.0	0.0	0.0
		3677.2	1959.3	0.0	0.0	0.0	0.0
		3679.0	1892.5	0.0	0.0	0.0	0.0
		3781.9	944.9	0.0	0.0	0.0	0.0
		3783.8	878.1	0.0	0.0	0.0	0.0
		3679.3	2057.7	0.0	0.0	0.0	0.0
		3681.2	1990.9	0.0	0.0	0.0	0.0
		3784.0	1043.3	0.0	0.0	0.0	0.0
		3785.9	976.5	0.0	0.0	0.0	0.0
Nodo	24	SX	SY	SZ	RX	RY	RZ
		-1212.7	-1507.0	0.0	0.0	0.0	0.0
		-1110.4	-1426.3	0.0	0.0	0.0	0.0
		-909.6	-1062.8	0.0	0.0	0.0	0.0
		-807.3	-982.0	0.0	0.0	0.0	0.0
		-1336.3	-1599.0	0.0	0.0	0.0	0.0
		-1234.0	-1518.3	0.0	0.0	0.0	0.0
		-1033.3	-1154.7	0.0	0.0	0.0	0.0
		-931.0	-1074.0	0.0	0.0	0.0	0.0
		-2921.9	803.5	0.0	0.0	0.0	0.0
		-2819.6	884.2	0.0	0.0	0.0	0.0
		-2618.9	1247.8	0.0	0.0	0.0	0.0
		-2516.6	1328.5	0.0	0.0	0.0	0.0
		-3045.6	711.5	0.0	0.0	0.0	0.0
		-2943.3	792.2	0.0	0.0	0.0	0.0
		-2742.5	1155.8	0.0	0.0	0.0	0.0
		-2640.2	1236.5	0.0	0.0	0.0	0.0
Nodo	25	SX	SY	SZ	RX	RY	RZ
		-2177.2	-3730.4	0.0	0.0	0.0	0.0
		-1971.2	-3705.8	0.0	0.0	0.0	0.0
		-1530.1	-3636.5	0.0	0.0	0.0	0.0
		-1324.0	-3611.9	0.0	0.0	0.0	0.0
		-2446.1	-3757.1	0.0	0.0	0.0	0.0
		-2240.0	-3732.5	0.0	0.0	0.0	0.0
		-1799.0	-3663.2	0.0	0.0	0.0	0.0
		-1592.9	-3638.6	0.0	0.0	0.0	0.0
		-6792.1	-3146.0	0.0	0.0	0.0	0.0
		-6586.0	-3121.4	0.0	0.0	0.0	0.0
		-6145.0	-3052.1	0.0	0.0	0.0	0.0
		-5938.9	-3027.5	0.0	0.0	0.0	0.0
		-7060.9	-3172.7	0.0	0.0	0.0	0.0
		-6854.8	-3148.1	0.0	0.0	0.0	0.0
		-6413.8	-3078.8	0.0	0.0	0.0	0.0



		-6207.7	-3054.2	0.0	0.0	0.0	0.0
Nodo	26	SX	SY	SZ	RX	RY	RZ
		3054.0	-5648.0	0.0	0.0	0.0	0.0
		3247.9	-5657.2	0.0	0.0	0.0	0.0
		2494.5	-5689.7	0.0	0.0	0.0	0.0
		2688.5	-5698.8	0.0	0.0	0.0	0.0
		2780.5	-5636.6	0.0	0.0	0.0	0.0
		2974.4	-5645.7	0.0	0.0	0.0	0.0
		2221.1	-5678.3	0.0	0.0	0.0	0.0
		2415.0	-5687.4	0.0	0.0	0.0	0.0
		-5215.3	-5592.2	0.0	0.0	0.0	0.0
		-5021.4	-5601.3	0.0	0.0	0.0	0.0
		-5774.8	-5633.9	0.0	0.0	0.0	0.0
		-5580.8	-5643.0	0.0	0.0	0.0	0.0
		-5488.8	-5580.8	0.0	0.0	0.0	0.0
		-5294.9	-5589.9	0.0	0.0	0.0	0.0
		-6048.3	-5622.5	0.0	0.0	0.0	0.0
		-5854.3	-5631.6	0.0	0.0	0.0	0.0
Nodo	27	SX	SY	SZ	RX	RY	RZ
		5352.7	-4030.8	0.0	0.0	0.0	0.0
		5490.1	-4067.6	0.0	0.0	0.0	0.0
		4782.5	-4164.0	0.0	0.0	0.0	0.0
		4920.0	-4200.8	0.0	0.0	0.0	0.0
		5143.3	-3994.1	0.0	0.0	0.0	0.0
		5280.8	-4030.9	0.0	0.0	0.0	0.0
		4573.2	-4127.3	0.0	0.0	0.0	0.0
		4710.6	-4164.1	0.0	0.0	0.0	0.0
		-4781.3	-4228.4	0.0	0.0	0.0	0.0
		-4643.8	-4265.2	0.0	0.0	0.0	0.0
		-5351.5	-4361.6	0.0	0.0	0.0	0.0
		-5214.0	-4398.4	0.0	0.0	0.0	0.0
		-4990.6	-4191.7	0.0	0.0	0.0	0.0
		-4853.1	-4228.5	0.0	0.0	0.0	0.0
		-5560.8	-4324.9	0.0	0.0	0.0	0.0
		-5423.3	-4361.7	0.0	0.0	0.0	0.0
Nodo	28	SX	SY	SZ	RX	RY	RZ
		3661.8	-4426.6	0.0	0.0	0.0	0.0
		3875.7	-4561.0	0.0	0.0	0.0	0.0
		2888.7	-4867.4	0.0	0.0	0.0	0.0
		3102.6	-5001.9	0.0	0.0	0.0	0.0
		3356.3	-4299.3	0.0	0.0	0.0	0.0
		3570.3	-4433.8	0.0	0.0	0.0	0.0
		2583.2	-4740.2	0.0	0.0	0.0	0.0
		2797.2	-4874.7	0.0	0.0	0.0	0.0
		-10045.9	-3863.5	0.0	0.0	0.0	0.0
		-9831.9	-3997.9	0.0	0.0	0.0	0.0
		-10818.9	-4304.3	0.0	0.0	0.0	0.0
		-10605.0	-4438.8	0.0	0.0	0.0	0.0
		-10351.3	-3736.2	0.0	0.0	0.0	0.0
		-10137.3	-3870.7	0.0	0.0	0.0	0.0
		-11124.4	-4177.1	0.0	0.0	0.0	0.0
		-10910.4	-4311.5	0.0	0.0	0.0	0.0
Nodo	29	SX	SY	SZ	RX	RY	RZ
		568.7	-3194.8	0.0	0.0	0.0	0.0
		774.7	-3224.5	0.0	0.0	0.0	0.0
		-253.2	-3316.5	0.0	0.0	0.0	0.0
		-47.3	-3346.2	0.0	0.0	0.0	0.0
		274.4	-3166.1	0.0	0.0	0.0	0.0
		480.3	-3195.8	0.0	0.0	0.0	0.0
		-547.5	-3287.8	0.0	0.0	0.0	0.0
		-341.6	-3317.4	0.0	0.0	0.0	0.0
		-12925.8	-3134.7	0.0	0.0	0.0	0.0
		-12719.9	-3164.4	0.0	0.0	0.0	0.0
		-13747.8	-3256.4	0.0	0.0	0.0	0.0
		-13541.9	-3286.1	0.0	0.0	0.0	0.0
		-13220.2	-3106.0	0.0	0.0	0.0	0.0
		-13014.3	-3135.7	0.0	0.0	0.0	0.0
		-14042.1	-3227.7	0.0	0.0	0.0	0.0
		-13836.2	-3257.4	0.0	0.0	0.0	0.0
Nodo	30	SX	SY	SZ	RX	RY	RZ
		1476.8	-4422.7	0.0	0.0	0.0	0.0
		1625.2	-4426.3	0.0	0.0	0.0	0.0
		396.1	-4432.7	0.0	0.0	0.0	0.0
		544.4	-4436.3	0.0	0.0	0.0	0.0
		1244.6	-4415.4	0.0	0.0	0.0	0.0
		1393.0	-4419.0	0.0	0.0	0.0	0.0
		163.9	-4425.4	0.0	0.0	0.0	0.0
		312.2	-4429.0	0.0	0.0	0.0	0.0
		-12146.3	-4460.5	0.0	0.0	0.0	0.0
		-11998.0	-4464.1	0.0	0.0	0.0	0.0
		-13227.0	-4470.6	0.0	0.0	0.0	0.0
		-13078.7	-4474.1	0.0	0.0	0.0	0.0
		-12378.5	-4453.2	0.0	0.0	0.0	0.0

		-12230.2	-4456.8	0.0	0.0	0.0	0.0
		-13459.2	-4463.3	0.0	0.0	0.0	0.0
		-13310.9	-4466.8	0.0	0.0	0.0	0.0
Nodo	31	SX	SY	SZ	RX	RY	RZ
		1567.7	-2441.7	0.0	0.0	0.0	0.0
		1430.5	-2400.6	0.0	0.0	0.0	0.0
		-178.1	-2180.0	0.0	0.0	0.0	0.0
		-315.2	-2138.9	0.0	0.0	0.0	0.0
		1698.4	-2475.7	0.0	0.0	0.0	0.0
		1561.3	-2434.6	0.0	0.0	0.0	0.0
		-47.3	-2214.1	0.0	0.0	0.0	0.0
		-184.5	-2173.0	0.0	0.0	0.0	0.0
		-4004.3	-2627.0	0.0	0.0	0.0	0.0
		-4141.4	-2585.9	0.0	0.0	0.0	0.0
		-5750.0	-2365.3	0.0	0.0	0.0	0.0
		-5887.1	-2324.2	0.0	0.0	0.0	0.0
		-3873.5	-2661.1	0.0	0.0	0.0	0.0
		-4010.7	-2620.0	0.0	0.0	0.0	0.0
		-5619.3	-2399.4	0.0	0.0	0.0	0.0
		-5756.4	-2358.3	0.0	0.0	0.0	0.0
Nodo	32	SX	SY	SZ	RX	RY	RZ
		1672.8	3005.7	0.0	0.0	0.0	0.0
		1420.8	3145.5	0.0	0.0	0.0	0.0
		-458.3	2549.7	0.0	0.0	0.0	0.0
		-710.4	2689.6	0.0	0.0	0.0	0.0
		1990.5	2784.3	0.0	0.0	0.0	0.0
		1738.5	2924.2	0.0	0.0	0.0	0.0
		-140.6	2328.4	0.0	0.0	0.0	0.0
		-392.7	2468.2	0.0	0.0	0.0	0.0
		-552.4	-5004.8	0.0	0.0	0.0	0.0
		-804.4	-4864.9	0.0	0.0	0.0	0.0
		-2683.5	-5460.8	0.0	0.0	0.0	0.0
		-2935.6	-5320.9	0.0	0.0	0.0	0.0
		-234.7	-5226.1	0.0	0.0	0.0	0.0
		-486.7	-5086.3	0.0	0.0	0.0	0.0
		-2365.8	-5682.1	0.0	0.0	0.0	0.0
		-2617.9	-5542.2	0.0	0.0	0.0	0.0
Nodo	33	SX	SY	SZ	RX	RY	RZ
		-110.8	-2742.3	0.0	0.0	0.0	0.0
		-268.4	-2840.2	0.0	0.0	0.0	0.0
		763.0	-3328.3	0.0	0.0	0.0	0.0
		605.4	-3426.3	0.0	0.0	0.0	0.0
		15.7	-2638.2	0.0	0.0	0.0	0.0
		-141.9	-2736.1	0.0	0.0	0.0	0.0
		889.4	-3224.2	0.0	0.0	0.0	0.0
		731.9	-3322.2	0.0	0.0	0.0	0.0
		9577.0	-2324.7	0.0	0.0	0.0	0.0
		9419.4	-2422.6	0.0	0.0	0.0	0.0
		10450.8	-2910.7	0.0	0.0	0.0	0.0
		10293.2	-3008.6	0.0	0.0	0.0	0.0
		9703.5	-2220.6	0.0	0.0	0.0	0.0
		9545.9	-2318.5	0.0	0.0	0.0	0.0
		10577.2	-2806.6	0.0	0.0	0.0	0.0
		10419.7	-2904.5	0.0	0.0	0.0	0.0
Nodo	34	SX	SY	SZ	RX	RY	RZ
		-4091.3	1361.7	0.0	0.0	0.0	0.0
		-4035.9	1379.0	0.0	0.0	0.0	0.0
		-2008.9	774.5	0.0	0.0	0.0	0.0
		-1953.6	791.8	0.0	0.0	0.0	0.0
		-4228.0	1341.5	0.0	0.0	0.0	0.0
		-4172.7	1358.9	0.0	0.0	0.0	0.0
		-2145.7	754.4	0.0	0.0	0.0	0.0
		-2090.3	771.7	0.0	0.0	0.0	0.0
		2757.5	2000.8	0.0	0.0	0.0	0.0
		2812.9	2018.1	0.0	0.0	0.0	0.0
		4839.8	1413.6	0.0	0.0	0.0	0.0
		4895.2	1430.9	0.0	0.0	0.0	0.0
		2620.7	1980.6	0.0	0.0	0.0	0.0
		2676.1	1998.0	0.0	0.0	0.0	0.0
		4703.1	1393.5	0.0	0.0	0.0	0.0
		4758.4	1410.8	0.0	0.0	0.0	0.0
Nodo	35	SX	SY	SZ	RX	RY	RZ
		7190.3	-3552.4	0.0	0.0	0.0	0.0
		7365.3	-3615.2	0.0	0.0	0.0	0.0
		8762.0	-3881.7	0.0	0.0	0.0	0.0
		8937.1	-3944.6	0.0	0.0	0.0	0.0
		6983.2	-3439.5	0.0	0.0	0.0	0.0
		7158.2	-3502.4	0.0	0.0	0.0	0.0
		8554.9	-3768.9	0.0	0.0	0.0	0.0
		8730.0	-3831.8	0.0	0.0	0.0	0.0
		1813.7	-643.0	0.0	0.0	0.0	0.0
		1988.8	-705.9	0.0	0.0	0.0	0.0
		3385.4	-972.3	0.0	0.0	0.0	0.0

		3560.5	-1035.2	0.0	0.0	0.0	0.0
		1606.6	-530.1	0.0	0.0	0.0	0.0
		1781.6	-593.0	0.0	0.0	0.0	0.0
		3178.3	-859.5	0.0	0.0	0.0	0.0
		3353.4	-922.4	0.0	0.0	0.0	0.0
Nodo	36	SX	SY	SZ	RX	RY	RZ
		7533.6	-3523.8	0.0	0.0	0.0	0.0
		7719.7	-3505.9	0.0	0.0	0.0	0.0
		8426.3	-3382.7	0.0	0.0	0.0	0.0
		8612.4	-3364.7	0.0	0.0	0.0	0.0
		7260.0	-3563.6	0.0	0.0	0.0	0.0
		7446.1	-3545.6	0.0	0.0	0.0	0.0
		8152.7	-3422.5	0.0	0.0	0.0	0.0
		8338.8	-3404.5	0.0	0.0	0.0	0.0
		295.2	-3567.9	0.0	0.0	0.0	0.0
		481.3	-3549.9	0.0	0.0	0.0	0.0
		1187.9	-3426.7	0.0	0.0	0.0	0.0
		1374.0	-3408.8	0.0	0.0	0.0	0.0
		21.5	-3607.7	0.0	0.0	0.0	0.0
		207.6	-3589.7	0.0	0.0	0.0	0.0
		914.3	-3466.5	0.0	0.0	0.0	0.0
		1100.4	-3448.5	0.0	0.0	0.0	0.0
Nodo	37	SX	SY	SZ	RX	RY	RZ
		12309.6	-5562.1	0.0	0.0	0.0	0.0
		12622.7	-5561.6	0.0	0.0	0.0	0.0
		11367.2	-5548.9	0.0	0.0	0.0	0.0
		11680.3	-5548.4	0.0	0.0	0.0	0.0
		11853.7	-5566.0	0.0	0.0	0.0	0.0
		12166.8	-5565.5	0.0	0.0	0.0	0.0
		10911.4	-5552.8	0.0	0.0	0.0	0.0
		11224.5	-5552.4	0.0	0.0	0.0	0.0
		-903.1	-5627.1	0.0	0.0	0.0	0.0
		-590.0	-5626.6	0.0	0.0	0.0	0.0
		-1845.5	-5613.9	0.0	0.0	0.0	0.0
		-1532.4	-5613.4	0.0	0.0	0.0	0.0
		-1359.0	-5631.0	0.0	0.0	0.0	0.0
		-1045.9	-5630.5	0.0	0.0	0.0	0.0
		-2301.3	-5617.8	0.0	0.0	0.0	0.0
		-1988.2	-5617.4	0.0	0.0	0.0	0.0
Nodo	38	SX	SY	SZ	RX	RY	RZ
		11539.0	-4031.6	0.0	0.0	0.0	0.0
		11784.4	-4048.6	0.0	0.0	0.0	0.0
		10766.9	-3979.9	0.0	0.0	0.0	0.0
		11012.3	-3997.0	0.0	0.0	0.0	0.0
		11171.6	-4008.4	0.0	0.0	0.0	0.0
		11417.0	-4025.5	0.0	0.0	0.0	0.0
		10399.5	-3956.8	0.0	0.0	0.0	0.0
		10644.9	-3973.8	0.0	0.0	0.0	0.0
		392.3	-4382.7	0.0	0.0	0.0	0.0
		637.7	-4399.7	0.0	0.0	0.0	0.0
		-379.8	-4331.0	0.0	0.0	0.0	0.0
		-134.4	-4348.1	0.0	0.0	0.0	0.0
		24.9	-4359.5	0.0	0.0	0.0	0.0
		270.3	-4376.6	0.0	0.0	0.0	0.0
		-747.2	-4307.9	0.0	0.0	0.0	0.0
		-501.8	-4324.9	0.0	0.0	0.0	0.0
Nodo	39	SX	SY	SZ	RX	RY	RZ
		8207.9	-3693.5	0.0	0.0	0.0	0.0
		8417.1	-3719.5	0.0	0.0	0.0	0.0
		7576.0	-3822.9	0.0	0.0	0.0	0.0
		7785.2	-3848.9	0.0	0.0	0.0	0.0
		7887.7	-3652.0	0.0	0.0	0.0	0.0
		8097.0	-3677.9	0.0	0.0	0.0	0.0
		7255.9	-3781.4	0.0	0.0	0.0	0.0
		7465.1	-3807.3	0.0	0.0	0.0	0.0
		-2379.7	-5068.8	0.0	0.0	0.0	0.0
		-2170.5	-5094.8	0.0	0.0	0.0	0.0
		-3011.6	-5198.2	0.0	0.0	0.0	0.0
		-2802.3	-5224.2	0.0	0.0	0.0	0.0
		-2699.8	-5027.3	0.0	0.0	0.0	0.0
		-2490.6	-5053.2	0.0	0.0	0.0	0.0
		-3331.7	-5156.7	0.0	0.0	0.0	0.0
		-3122.5	-5182.6	0.0	0.0	0.0	0.0
Nodo	40	SX	SY	SZ	RX	RY	RZ
		2499.5	-3780.0	0.0	0.0	0.0	0.0
		2601.2	-3791.2	0.0	0.0	0.0	0.0
		2819.0	-3737.0	0.0	0.0	0.0	0.0
		2920.7	-3748.3	0.0	0.0	0.0	0.0
		2324.9	-3762.2	0.0	0.0	0.0	0.0
		2426.6	-3773.4	0.0	0.0	0.0	0.0
		2644.5	-3719.2	0.0	0.0	0.0	0.0
		2746.2	-3730.4	0.0	0.0	0.0	0.0
		-3960.3	-3804.2	0.0	0.0	0.0	0.0

		-3858.6	-3815.5	0.0	0.0	0.0	0.0
		-3640.8	-3761.3	0.0	0.0	0.0	0.0
		-3539.0	-3772.5	0.0	0.0	0.0	0.0
		-4134.9	-3786.4	0.0	0.0	0.0	0.0
		-4033.1	-3797.7	0.0	0.0	0.0	0.0
		-3815.3	-3743.5	0.0	0.0	0.0	0.0
		-3713.6	-3754.7	0.0	0.0	0.0	0.0
Nodo	41	SX	SY	SZ	RX	RY	RZ
		3835.1	-5036.2	0.0	0.0	0.0	0.0
		3953.2	-5034.6	0.0	0.0	0.0	0.0
		3483.3	-5060.7	0.0	0.0	0.0	0.0
		3601.3	-5059.2	0.0	0.0	0.0	0.0
		3641.8	-5036.4	0.0	0.0	0.0	0.0
		3759.8	-5034.8	0.0	0.0	0.0	0.0
		3289.9	-5060.9	0.0	0.0	0.0	0.0
		3408.0	-5059.4	0.0	0.0	0.0	0.0
		-3071.6	-5051.0	0.0	0.0	0.0	0.0
		-2953.5	-5049.5	0.0	0.0	0.0	0.0
		-3423.4	-5075.6	0.0	0.0	0.0	0.0
		-3305.4	-5074.0	0.0	0.0	0.0	0.0
		-3264.9	-5051.2	0.0	0.0	0.0	0.0
		-3146.9	-5049.7	0.0	0.0	0.0	0.0
		-3616.8	-5075.8	0.0	0.0	0.0	0.0
		-3498.7	-5074.2	0.0	0.0	0.0	0.0
Nodo	42	SX	SY	SZ	RX	RY	RZ
		3666.2	-3763.9	0.0	0.0	0.0	0.0
		3729.0	-3755.9	0.0	0.0	0.0	0.0
		3480.1	-3836.7	0.0	0.0	0.0	0.0
		3542.9	-3828.6	0.0	0.0	0.0	0.0
		3549.5	-3773.4	0.0	0.0	0.0	0.0
		3612.3	-3765.3	0.0	0.0	0.0	0.0
		3363.4	-3846.1	0.0	0.0	0.0	0.0
		3426.2	-3838.1	0.0	0.0	0.0	0.0
		-1146.8	-3894.1	0.0	0.0	0.0	0.0
		-1084.0	-3886.0	0.0	0.0	0.0	0.0
		-1332.9	-3966.8	0.0	0.0	0.0	0.0
		-1270.1	-3958.8	0.0	0.0	0.0	0.0
		-1263.5	-3903.5	0.0	0.0	0.0	0.0
		-1200.7	-3895.5	0.0	0.0	0.0	0.0
		-1449.6	-3976.3	0.0	0.0	0.0	0.0
		-1386.8	-3968.3	0.0	0.0	0.0	0.0
Nodo	43	SX	SY	SZ	RX	RY	RZ
		2423.1	-4497.7	0.0	0.0	0.0	0.0
		2464.3	-4407.0	0.0	0.0	0.0	0.0
		2667.3	-5069.7	0.0	0.0	0.0	0.0
		2708.4	-4979.0	0.0	0.0	0.0	0.0
		2331.8	-4609.2	0.0	0.0	0.0	0.0
		2372.9	-4518.5	0.0	0.0	0.0	0.0
		2575.9	-5181.2	0.0	0.0	0.0	0.0
		2617.1	-5090.5	0.0	0.0	0.0	0.0
		-3231.6	-4731.7	0.0	0.0	0.0	0.0
		-3190.4	-4641.0	0.0	0.0	0.0	0.0
		-2987.4	-5303.7	0.0	0.0	0.0	0.0
		-2946.2	-5213.0	0.0	0.0	0.0	0.0
		-3322.9	-4843.2	0.0	0.0	0.0	0.0
		-3281.8	-4752.5	0.0	0.0	0.0	0.0
		-3078.8	-5415.2	0.0	0.0	0.0	0.0
		-3037.6	-5324.5	0.0	0.0	0.0	0.0
Nodo	44	SX	SY	SZ	RX	RY	RZ
		-595.7	-3524.7	0.0	0.0	0.0	0.0
		-652.6	-3512.1	0.0	0.0	0.0	0.0
		-170.4	-3591.1	0.0	0.0	0.0	0.0
		-227.3	-3578.4	0.0	0.0	0.0	0.0
		-557.2	-3539.0	0.0	0.0	0.0	0.0
		-614.2	-3526.3	0.0	0.0	0.0	0.0
		-131.9	-3605.3	0.0	0.0	0.0	0.0
		-188.9	-3592.7	0.0	0.0	0.0	0.0
		-3339.6	-3362.9	0.0	0.0	0.0	0.0
		-3396.6	-3350.3	0.0	0.0	0.0	0.0
		-2914.3	-3429.2	0.0	0.0	0.0	0.0
		-2971.2	-3416.6	0.0	0.0	0.0	0.0
		-3301.2	-3377.1	0.0	0.0	0.0	0.0
		-3358.1	-3364.5	0.0	0.0	0.0	0.0
		-2875.9	-3443.5	0.0	0.0	0.0	0.0
		-2932.8	-3430.9	0.0	0.0	0.0	0.0
Nodo	45	SX	SY	SZ	RX	RY	RZ
		741.5	-4526.1	0.0	0.0	0.0	0.0
		715.7	-4517.2	0.0	0.0	0.0	0.0
		1078.7	-4572.0	0.0	0.0	0.0	0.0
		1052.9	-4563.0	0.0	0.0	0.0	0.0
		741.6	-4535.3	0.0	0.0	0.0	0.0
		715.8	-4526.4	0.0	0.0	0.0	0.0
		1078.8	-4581.2	0.0	0.0	0.0	0.0

		1053.0	-4572.2	0.0	0.0	0.0	0.0
		-2902.1	-4516.4	0.0	0.0	0.0	0.0
		-2927.9	-4507.5	0.0	0.0	0.0	0.0
		-2564.9	-4562.3	0.0	0.0	0.0	0.0
		-2590.7	-4553.3	0.0	0.0	0.0	0.0
		-2901.9	-4525.6	0.0	0.0	0.0	0.0
		-2927.7	-4516.7	0.0	0.0	0.0	0.0
		-2564.7	-4571.5	0.0	0.0	0.0	0.0
		-2590.5	-4562.5	0.0	0.0	0.0	0.0
Nodo	46	SX	SY	SZ	RX	RY	RZ
		954.5	-3379.6	0.0	0.0	0.0	0.0
		895.8	-3367.1	0.0	0.0	0.0	0.0
		1273.8	-3454.7	0.0	0.0	0.0	0.0
		1215.1	-3442.2	0.0	0.0	0.0	0.0
		1002.3	-3394.3	0.0	0.0	0.0	0.0
		943.6	-3381.8	0.0	0.0	0.0	0.0
		1321.6	-3469.4	0.0	0.0	0.0	0.0
		1262.9	-3456.9	0.0	0.0	0.0	0.0
		-1306.8	-3533.6	0.0	0.0	0.0	0.0
		-1365.5	-3521.2	0.0	0.0	0.0	0.0
		-987.5	-3608.7	0.0	0.0	0.0	0.0
		-1046.2	-3596.2	0.0	0.0	0.0	0.0
		-1259.1	-3548.3	0.0	0.0	0.0	0.0
		-1317.7	-3535.8	0.0	0.0	0.0	0.0
		-939.8	-3623.4	0.0	0.0	0.0	0.0
		-998.5	-3610.9	0.0	0.0	0.0	0.0
Nodo	47	SX	SY	SZ	RX	RY	RZ
		698.9	-4949.4	0.0	0.0	0.0	0.0
		635.3	-4798.0	0.0	0.0	0.0	0.0
		1178.1	-5690.5	0.0	0.0	0.0	0.0
		1114.5	-5539.1	0.0	0.0	0.0	0.0
		747.2	-5136.3	0.0	0.0	0.0	0.0
		683.6	-4984.9	0.0	0.0	0.0	0.0
		1226.4	-5877.5	0.0	0.0	0.0	0.0
		1162.8	-5726.1	0.0	0.0	0.0	0.0
		-3557.3	-4757.7	0.0	0.0	0.0	0.0
		-3620.9	-4606.3	0.0	0.0	0.0	0.0
		-3078.0	-5498.9	0.0	0.0	0.0	0.0
		-3141.7	-5347.5	0.0	0.0	0.0	0.0
		-3509.0	-4944.7	0.0	0.0	0.0	0.0
		-3572.6	-4793.3	0.0	0.0	0.0	0.0
		-3029.8	-5685.8	0.0	0.0	0.0	0.0
		-3093.4	-5534.4	0.0	0.0	0.0	0.0
Nodo	48	SX	SY	SZ	RX	RY	RZ
		-1195.4	-3979.4	0.0	0.0	0.0	0.0
		-1335.7	-3961.4	0.0	0.0	0.0	0.0
		-492.9	-4057.7	0.0	0.0	0.0	0.0
		-633.2	-4039.7	0.0	0.0	0.0	0.0
		-1048.2	-3999.5	0.0	0.0	0.0	0.0
		-1188.6	-3981.5	0.0	0.0	0.0	0.0
		-345.7	-4077.8	0.0	0.0	0.0	0.0
		-486.1	-4059.8	0.0	0.0	0.0	0.0
		-3865.3	-3852.5	0.0	0.0	0.0	0.0
		-4005.7	-3834.5	0.0	0.0	0.0	0.0
		-3162.8	-3930.8	0.0	0.0	0.0	0.0
		-3303.2	-3912.8	0.0	0.0	0.0	0.0
		-3718.1	-3872.6	0.0	0.0	0.0	0.0
		-3858.5	-3854.6	0.0	0.0	0.0	0.0
		-3015.6	-3950.9	0.0	0.0	0.0	0.0
		-3156.0	-3932.9	0.0	0.0	0.0	0.0
Nodo	49	SX	SY	SZ	RX	RY	RZ
		924.7	-5061.5	0.0	0.0	0.0	0.0
		858.5	-5050.2	0.0	0.0	0.0	0.0
		1377.8	-5099.8	0.0	0.0	0.0	0.0
		1311.5	-5088.5	0.0	0.0	0.0	0.0
		980.9	-5071.6	0.0	0.0	0.0	0.0
		914.6	-5060.3	0.0	0.0	0.0	0.0
		1433.9	-5109.9	0.0	0.0	0.0	0.0
		1367.7	-5098.6	0.0	0.0	0.0	0.0
		-2953.1	-5055.7	0.0	0.0	0.0	0.0
		-3019.3	-5044.3	0.0	0.0	0.0	0.0
		-2500.0	-5094.0	0.0	0.0	0.0	0.0
		-2566.3	-5082.6	0.0	0.0	0.0	0.0
		-2896.9	-5065.7	0.0	0.0	0.0	0.0
		-2963.2	-5054.4	0.0	0.0	0.0	0.0
		-2443.9	-5104.0	0.0	0.0	0.0	0.0
		-2510.1	-5092.7	0.0	0.0	0.0	0.0
Nodo	50	SX	SY	SZ	RX	RY	RZ
		1638.7	-3738.5	0.0	0.0	0.0	0.0
		1575.0	-3718.7	0.0	0.0	0.0	0.0
		1947.4	-3816.8	0.0	0.0	0.0	0.0
		1883.8	-3796.9	0.0	0.0	0.0	0.0
		1699.0	-3760.4	0.0	0.0	0.0	0.0

		1635.4	-3740.6	0.0	0.0	0.0	0.0
		2007.8	-3838.7	0.0	0.0	0.0	0.0
		1944.2	-3818.9	0.0	0.0	0.0	0.0
		-807.8	-3887.5	0.0	0.0	0.0	0.0
		-871.4	-3867.7	0.0	0.0	0.0	0.0
		-499.0	-3965.8	0.0	0.0	0.0	0.0
		-562.7	-3946.0	0.0	0.0	0.0	0.0
		-747.4	-3909.5	0.0	0.0	0.0	0.0
		-811.1	-3889.6	0.0	0.0	0.0	0.0
		-438.6	-3987.7	0.0	0.0	0.0	0.0
		-502.3	-3967.9	0.0	0.0	0.0	0.0
Nodo	51	SX	SY	SZ	RX	RY	RZ
		1125.2	-4804.9	0.0	0.0	0.0	0.0
		1095.9	-4603.9	0.0	0.0	0.0	0.0
		1412.1	-5625.9	0.0	0.0	0.0	0.0
		1382.8	-5425.0	0.0	0.0	0.0	0.0
		1136.1	-5048.5	0.0	0.0	0.0	0.0
		1106.8	-4847.5	0.0	0.0	0.0	0.0
		1423.0	-5869.5	0.0	0.0	0.0	0.0
		1393.7	-5668.5	0.0	0.0	0.0	0.0
		-2561.1	-4966.9	0.0	0.0	0.0	0.0
		-2590.5	-4765.9	0.0	0.0	0.0	0.0
		-2274.2	-5787.9	0.0	0.0	0.0	0.0
		-2303.5	-5586.9	0.0	0.0	0.0	0.0
		-2550.2	-5210.4	0.0	0.0	0.0	0.0
		-2579.6	-5009.4	0.0	0.0	0.0	0.0
		-2263.3	-6031.4	0.0	0.0	0.0	0.0
		-2292.6	-5830.4	0.0	0.0	0.0	0.0
Nodo	52	SX	SY	SZ	RX	RY	RZ
		-1024.4	-3926.9	0.0	0.0	0.0	0.0
		-1086.5	-3901.8	0.0	0.0	0.0	0.0
		-698.6	-4010.7	0.0	0.0	0.0	0.0
		-760.8	-3985.6	0.0	0.0	0.0	0.0
		-971.9	-3954.0	0.0	0.0	0.0	0.0
		-1034.0	-3928.9	0.0	0.0	0.0	0.0
		-646.1	-4037.8	0.0	0.0	0.0	0.0
		-708.3	-4012.7	0.0	0.0	0.0	0.0
		-2575.4	-3815.7	0.0	0.0	0.0	0.0
		-2637.5	-3790.6	0.0	0.0	0.0	0.0
		-2249.6	-3899.5	0.0	0.0	0.0	0.0
		-2311.7	-3874.4	0.0	0.0	0.0	0.0
		-2522.9	-3842.8	0.0	0.0	0.0	0.0
		-2585.0	-3817.7	0.0	0.0	0.0	0.0
		-2197.1	-3926.6	0.0	0.0	0.0	0.0
		-2259.2	-3901.5	0.0	0.0	0.0	0.0
Nodo	53	SX	SY	SZ	RX	RY	RZ
		962.5	-5126.3	0.0	0.0	0.0	0.0
		1041.8	-5102.7	0.0	0.0	0.0	0.0
		712.2	-5197.9	0.0	0.0	0.0	0.0
		791.4	-5174.3	0.0	0.0	0.0	0.0
		840.6	-5149.3	0.0	0.0	0.0	0.0
		919.9	-5125.7	0.0	0.0	0.0	0.0
		590.2	-5220.9	0.0	0.0	0.0	0.0
		669.5	-5197.4	0.0	0.0	0.0	0.0
		-1208.3	-5099.7	0.0	0.0	0.0	0.0
		-1129.1	-5076.1	0.0	0.0	0.0	0.0
		-1458.7	-5171.3	0.0	0.0	0.0	0.0
		-1379.4	-5147.7	0.0	0.0	0.0	0.0
		-1330.3	-5122.7	0.0	0.0	0.0	0.0
		-1251.0	-5099.1	0.0	0.0	0.0	0.0
		-1580.6	-5194.3	0.0	0.0	0.0	0.0
		-1501.3	-5170.8	0.0	0.0	0.0	0.0
Nodo	54	SX	SY	SZ	RX	RY	RZ
		1578.3	-3986.0	0.0	0.0	0.0	0.0
		1719.3	-3923.6	0.0	0.0	0.0	0.0
		1047.4	-4209.9	0.0	0.0	0.0	0.0
		1188.4	-4147.6	0.0	0.0	0.0	0.0
		1387.9	-4057.6	0.0	0.0	0.0	0.0
		1528.9	-3995.3	0.0	0.0	0.0	0.0
		857.0	-4281.6	0.0	0.0	0.0	0.0
		998.0	-4219.3	0.0	0.0	0.0	0.0
		1476.4	-4082.3	0.0	0.0	0.0	0.0
		1617.4	-4020.0	0.0	0.0	0.0	0.0
		945.5	-4306.3	0.0	0.0	0.0	0.0
		1086.5	-4244.0	0.0	0.0	0.0	0.0
		1286.0	-4153.9	0.0	0.0	0.0	0.0
		1426.9	-4091.6	0.0	0.0	0.0	0.0
		755.0	-4377.9	0.0	0.0	0.0	0.0
		896.0	-4315.6	0.0	0.0	0.0	0.0
Nodo	55	SX	SY	SZ	RX	RY	RZ
		444.5	-4387.6	0.0	0.0	0.0	0.0
		720.9	-4112.8	0.0	0.0	0.0	0.0
		-548.5	-5454.0	0.0	0.0	0.0	0.0

		-272.2	-5179.2	0.0	0.0	0.0	0.0
		74.6	-4723.2	0.0	0.0	0.0	0.0
		351.0	-4448.4	0.0	0.0	0.0	0.0
		-918.4	-5789.6	0.0	0.0	0.0	0.0
		-642.1	-5514.8	0.0	0.0	0.0	0.0
		1746.5	-5319.1	0.0	0.0	0.0	0.0
		2022.9	-5044.4	0.0	0.0	0.0	0.0
		753.5	-6385.5	0.0	0.0	0.0	0.0
		1029.8	-6110.8	0.0	0.0	0.0	0.0
		1376.6	-5654.7	0.0	0.0	0.0	0.0
		1653.0	-5380.0	0.0	0.0	0.0	0.0
		383.6	-6721.1	0.0	0.0	0.0	0.0
		659.9	-6446.4	0.0	0.0	0.0	0.0
Nodo	56	SX	SY	SZ	RX	RY	RZ
		-1868.5	-3978.8	0.0	0.0	0.0	0.0
		-1564.4	-3914.2	0.0	0.0	0.0	0.0
		-3034.6	-4216.0	0.0	0.0	0.0	0.0
		-2730.4	-4151.4	0.0	0.0	0.0	0.0
		-2277.0	-4060.0	0.0	0.0	0.0	0.0
		-1972.9	-3995.4	0.0	0.0	0.0	0.0
		-3443.1	-4297.2	0.0	0.0	0.0	0.0
		-3138.9	-4232.6	0.0	0.0	0.0	0.0
		3635.6	-3862.5	0.0	0.0	0.0	0.0
		3939.8	-3798.0	0.0	0.0	0.0	0.0
		2469.6	-4099.8	0.0	0.0	0.0	0.0
		2773.7	-4035.2	0.0	0.0	0.0	0.0
		3227.1	-3943.8	0.0	0.0	0.0	0.0
		3531.3	-3879.2	0.0	0.0	0.0	0.0
		2061.1	-4181.0	0.0	0.0	0.0	0.0
		2365.2	-4116.4	0.0	0.0	0.0	0.0
Nodo	57	SX	SY	SZ	RX	RY	RZ
		-714.7	-2931.7	0.0	0.0	0.0	0.0
		-258.7	-2954.9	0.0	0.0	0.0	0.0
		-2470.5	-2854.8	0.0	0.0	0.0	0.0
		-2014.5	-2878.0	0.0	0.0	0.0	0.0
		-1309.8	-2905.4	0.0	0.0	0.0	0.0
		-853.8	-2928.6	0.0	0.0	0.0	0.0
		-3065.7	-2828.4	0.0	0.0	0.0	0.0
		-2609.6	-2851.6	0.0	0.0	0.0	0.0
		6242.0	-3480.6	0.0	0.0	0.0	0.0
		6698.0	-3503.8	0.0	0.0	0.0	0.0
		4486.2	-3403.7	0.0	0.0	0.0	0.0
		4942.2	-3426.8	0.0	0.0	0.0	0.0
		5646.8	-3454.3	0.0	0.0	0.0	0.0
		6102.9	-3477.4	0.0	0.0	0.0	0.0
		3891.0	-3377.3	0.0	0.0	0.0	0.0
		4347.0	-3400.5	0.0	0.0	0.0	0.0
Nodo	58	SX	SY	SZ	RX	RY	RZ
		-737.2	-1066.7	0.0	0.0	0.0	0.0
		-454.7	-855.9	0.0	0.0	0.0	0.0
		-1778.5	-1790.6	0.0	0.0	0.0	0.0
		-1496.1	-1579.9	0.0	0.0	0.0	0.0
		-1096.7	-1358.4	0.0	0.0	0.0	0.0
		-814.3	-1147.6	0.0	0.0	0.0	0.0
		-2138.1	-2082.3	0.0	0.0	0.0	0.0
		-1855.6	-1871.6	0.0	0.0	0.0	0.0
		3345.7	526.8	0.0	0.0	0.0	0.0
		3628.2	737.6	0.0	0.0	0.0	0.0
		2304.4	-197.1	0.0	0.0	0.0	0.0
		2586.8	13.7	0.0	0.0	0.0	0.0
		2986.1	235.2	0.0	0.0	0.0	0.0
		3268.6	445.9	0.0	0.0	0.0	0.0
		1944.8	-488.8	0.0	0.0	0.0	0.0
		2227.2	-278.0	0.0	0.0	0.0	0.0
Nodo	59	SX	SY	SZ	RX	RY	RZ
		-2640.0	-4408.9	0.0	0.0	0.0	0.0
		-2632.1	-4116.9	0.0	0.0	0.0	0.0
		-2595.8	-3045.2	0.0	0.0	0.0	0.0
		-2587.9	-2753.2	0.0	0.0	0.0	0.0
		-2651.9	-4775.9	0.0	0.0	0.0	0.0
		-2644.0	-4483.9	0.0	0.0	0.0	0.0
		-2607.7	-3412.2	0.0	0.0	0.0	0.0
		-2599.8	-3120.2	0.0	0.0	0.0	0.0
		-2199.7	-337.0	0.0	0.0	0.0	0.0
		-2191.8	-45.0	0.0	0.0	0.0	0.0
		-2155.5	1026.7	0.0	0.0	0.0	0.0
		-2147.6	1318.7	0.0	0.0	0.0	0.0
		-2211.6	-704.0	0.0	0.0	0.0	0.0
		-2203.7	-411.9	0.0	0.0	0.0	0.0
		-2167.4	659.7	0.0	0.0	0.0	0.0
		-2159.5	951.7	0.0	0.0	0.0	0.0
Nodo	60	SX	SY	SZ	RX	RY	RZ
		2513.3	-1934.4	0.0	0.0	0.0	0.0

		2543.5	-1666.9	0.0	0.0	0.0	0.0
		2398.4	-2797.6	0.0	0.0	0.0	0.0
		2428.5	-2530.1	0.0	0.0	0.0	0.0
		2473.5	-2290.6	0.0	0.0	0.0	0.0
		2503.6	-2023.1	0.0	0.0	0.0	0.0
		2358.5	-3153.8	0.0	0.0	0.0	0.0
		2388.6	-2886.3	0.0	0.0	0.0	0.0
		3166.1	835.2	0.0	0.0	0.0	0.0
		3196.2	1102.7	0.0	0.0	0.0	0.0
		3051.1	-28.0	0.0	0.0	0.0	0.0
		3081.3	239.5	0.0	0.0	0.0	0.0
		3126.2	479.0	0.0	0.0	0.0	0.0
		3156.3	746.5	0.0	0.0	0.0	0.0
		3011.2	-384.2	0.0	0.0	0.0	0.0
		3041.4	-116.7	0.0	0.0	0.0	0.0
Nodo	61	SX	SY	SZ	RX	RY	RZ
		1033.4	5661.8	0.0	0.0	0.0	0.0
		1246.3	5263.8	0.0	0.0	0.0	0.0
		-1945.6	6913.5	0.0	0.0	0.0	0.0
		-1732.6	6515.5	0.0	0.0	0.0	0.0
		659.7	6232.1	0.0	0.0	0.0	0.0
		872.6	5834.1	0.0	0.0	0.0	0.0
		-2319.3	7483.8	0.0	0.0	0.0	0.0
		-2106.3	7085.8	0.0	0.0	0.0	0.0
		2465.2	-2168.7	0.0	0.0	0.0	0.0
		2678.2	-2566.7	0.0	0.0	0.0	0.0
		-513.7	-917.0	0.0	0.0	0.0	0.0
		-300.7	-1315.0	0.0	0.0	0.0	0.0
		2091.5	-1598.4	0.0	0.0	0.0	0.0
		2304.5	-1996.4	0.0	0.0	0.0	0.0
		-887.4	-346.7	0.0	0.0	0.0	0.0
		-674.4	-744.7	0.0	0.0	0.0	0.0
Nodo	62	SX	SY	SZ	RX	RY	RZ
		-10669.7	678.7	0.0	0.0	0.0	0.0
		-9658.9	653.2	0.0	0.0	0.0	0.0
		-7530.1	392.5	0.0	0.0	0.0	0.0
		-6519.2	367.0	0.0	0.0	0.0	0.0
		-12094.4	712.9	0.0	0.0	0.0	0.0
		-11083.6	687.4	0.0	0.0	0.0	0.0
		-8954.7	426.7	0.0	0.0	0.0	0.0
		-7943.9	401.2	0.0	0.0	0.0	0.0
		5636.2	255.5	0.0	0.0	0.0	0.0
		6647.1	230.0	0.0	0.0	0.0	0.0
		8775.9	-30.8	0.0	0.0	0.0	0.0
		9786.7	-56.3	0.0	0.0	0.0	0.0
		4211.6	289.7	0.0	0.0	0.0	0.0
		5222.4	264.2	0.0	0.0	0.0	0.0
		7351.2	3.4	0.0	0.0	0.0	0.0
		8362.0	-22.1	0.0	0.0	0.0	0.0
Nodo	63	SX	SY	SZ	RX	RY	RZ
		-7956.4	-3335.7	0.0	0.0	0.0	0.0
		-7011.8	-3022.1	0.0	0.0	0.0	0.0
		-2992.7	-5136.6	0.0	0.0	0.0	0.0
		-2048.1	-4822.9	0.0	0.0	0.0	0.0
		-9212.6	-3701.7	0.0	0.0	0.0	0.0
		-8268.1	-3388.0	0.0	0.0	0.0	0.0
		-4248.9	-5502.5	0.0	0.0	0.0	0.0
		-3304.3	-5188.9	0.0	0.0	0.0	0.0
		123.2	8776.4	0.0	0.0	0.0	0.0
		1067.8	9090.0	0.0	0.0	0.0	0.0
		5086.9	6975.6	0.0	0.0	0.0	0.0
		6031.5	7289.2	0.0	0.0	0.0	0.0
		-1133.0	8410.5	0.0	0.0	0.0	0.0
		-188.5	8724.1	0.0	0.0	0.0	0.0
		3830.7	6609.6	0.0	0.0	0.0	0.0
		4775.3	6923.3	0.0	0.0	0.0	0.0
Nodo	64	SX	SY	SZ	RX	RY	RZ
		-4227.3	-1551.8	0.0	0.0	0.0	0.0
		-4223.0	-1519.3	0.0	0.0	0.0	0.0
		-4205.5	-1352.7	0.0	0.0	0.0	0.0
		-4201.2	-1320.2	0.0	0.0	0.0	0.0
		-4239.3	-1583.5	0.0	0.0	0.0	0.0
		-4235.1	-1551.1	0.0	0.0	0.0	0.0
		-4217.5	-1384.5	0.0	0.0	0.0	0.0
		-4213.3	-1352.0	0.0	0.0	0.0	0.0
		-4396.9	1487.6	0.0	0.0	0.0	0.0
		-4392.6	1520.0	0.0	0.0	0.0	0.0
		-4375.1	1686.6	0.0	0.0	0.0	0.0
		-4370.8	1719.1	0.0	0.0	0.0	0.0
		-4408.9	1455.8	0.0	0.0	0.0	0.0
		-4404.7	1488.3	0.0	0.0	0.0	0.0
		-4387.1	1654.9	0.0	0.0	0.0	0.0
		-4382.9	1687.3	0.0	0.0	0.0	0.0



Nodo	65	SX	SY	SZ	RX	RY	RZ
		4426.1	-102.9	0.0	0.0	0.0	0.0
		4435.5	561.4	0.0	0.0	0.0	0.0
		4394.2	-2471.8	0.0	0.0	0.0	0.0
		4403.6	-1807.6	0.0	0.0	0.0	0.0
		4408.2	-983.9	0.0	0.0	0.0	0.0
		4417.6	-319.7	0.0	0.0	0.0	0.0
		4376.3	-3352.8	0.0	0.0	0.0	0.0
		4385.7	-2688.6	0.0	0.0	0.0	0.0
		4436.8	4160.1	0.0	0.0	0.0	0.0
		4446.2	4824.3	0.0	0.0	0.0	0.0
		4404.9	1791.2	0.0	0.0	0.0	0.0
		4414.3	2455.4	0.0	0.0	0.0	0.0
		4418.9	3279.0	0.0	0.0	0.0	0.0
		4428.3	3943.2	0.0	0.0	0.0	0.0
		4387.0	910.1	0.0	0.0	0.0	0.0
		4396.4	1574.3	0.0	0.0	0.0	0.0
Nodo	66	SX	SY	SZ	RX	RY	RZ
		836.2	-2089.7	0.0	0.0	0.0	0.0
		811.0	-2566.8	0.0	0.0	0.0	0.0
		538.7	1926.1	0.0	0.0	0.0	0.0
		513.5	1449.0	0.0	0.0	0.0	0.0
		863.3	-1347.8	0.0	0.0	0.0	0.0
		838.1	-1824.9	0.0	0.0	0.0	0.0
		565.8	2668.0	0.0	0.0	0.0	0.0
		540.6	2191.0	0.0	0.0	0.0	0.0
		-134.5	2637.7	0.0	0.0	0.0	0.0
		-159.7	2160.6	0.0	0.0	0.0	0.0
		-432.0	6653.5	0.0	0.0	0.0	0.0
		-457.2	6176.4	0.0	0.0	0.0	0.0
		-107.4	3379.6	0.0	0.0	0.0	0.0
		-132.6	2902.5	0.0	0.0	0.0	0.0
		-404.9	7395.4	0.0	0.0	0.0	0.0
		-430.1	6918.3	0.0	0.0	0.0	0.0
Nodo	67	SX	SY	SZ	RX	RY	RZ
		-219.6	-1622.7	0.0	0.0	0.0	0.0
		-191.4	-614.8	0.0	0.0	0.0	0.0
		86.4	-4543.6	0.0	0.0	0.0	0.0
		114.6	-3535.7	0.0	0.0	0.0	0.0
		-258.1	-2834.5	0.0	0.0	0.0	0.0
		-229.9	-1826.6	0.0	0.0	0.0	0.0
		47.9	-5755.4	0.0	0.0	0.0	0.0
		76.1	-4747.5	0.0	0.0	0.0	0.0
		-570.9	6120.2	0.0	0.0	0.0	0.0
		-542.7	7128.1	0.0	0.0	0.0	0.0
		-264.9	3199.3	0.0	0.0	0.0	0.0
		-236.7	4207.2	0.0	0.0	0.0	0.0
		-609.4	4908.3	0.0	0.0	0.0	0.0
		-581.2	5916.3	0.0	0.0	0.0	0.0
		-303.4	1987.4	0.0	0.0	0.0	0.0
		-275.2	2995.4	0.0	0.0	0.0	0.0
Nodo	68	SX	SY	SZ	RX	RY	RZ
		-2587.7	-635.7	0.0	0.0	0.0	0.0
		-2580.2	-588.3	0.0	0.0	0.0	0.0
		-2551.6	-426.9	0.0	0.0	0.0	0.0
		-2544.1	-379.4	0.0	0.0	0.0	0.0
		-2602.5	-699.9	0.0	0.0	0.0	0.0
		-2595.0	-652.5	0.0	0.0	0.0	0.0
		-2566.5	-491.1	0.0	0.0	0.0	0.0
		-2559.0	-443.7	0.0	0.0	0.0	0.0
		-3692.6	1309.6	0.0	0.0	0.0	0.0
		-3685.1	1357.1	0.0	0.0	0.0	0.0
		-3656.5	1518.4	0.0	0.0	0.0	0.0
		-3649.1	1565.9	0.0	0.0	0.0	0.0
		-3707.4	1245.4	0.0	0.0	0.0	0.0
		-3700.0	1292.8	0.0	0.0	0.0	0.0
		-3671.4	1454.2	0.0	0.0	0.0	0.0
		-3663.9	1501.7	0.0	0.0	0.0	0.0
Nodo	69	SX	SY	SZ	RX	RY	RZ
		3582.9	462.4	0.0	0.0	0.0	0.0
		3583.1	967.1	0.0	0.0	0.0	0.0
		3605.5	-1364.1	0.0	0.0	0.0	0.0
		3605.7	-859.4	0.0	0.0	0.0	0.0
		3575.4	-185.4	0.0	0.0	0.0	0.0
		3575.6	319.3	0.0	0.0	0.0	0.0
		3598.0	-2011.8	0.0	0.0	0.0	0.0
		3598.2	-1507.1	0.0	0.0	0.0	0.0
		3030.9	3748.2	0.0	0.0	0.0	0.0
		3031.1	4252.9	0.0	0.0	0.0	0.0
		3053.5	1921.7	0.0	0.0	0.0	0.0
		3053.7	2426.4	0.0	0.0	0.0	0.0
		3023.4	3100.4	0.0	0.0	0.0	0.0
		3023.6	3605.2	0.0	0.0	0.0	0.0

		3046.0	1274.0	0.0	0.0	0.0	0.0
		3046.2	1778.7	0.0	0.0	0.0	0.0
Nodo	70	SX	SY	SZ	RX	RY	RZ
		4229.9	-7861.1	0.0	0.0	0.0	0.0
		3938.5	-8246.0	0.0	0.0	0.0	0.0
		6753.9	-5806.6	0.0	0.0	0.0	0.0
		6462.5	-6191.6	0.0	0.0	0.0	0.0
		4566.4	-7296.2	0.0	0.0	0.0	0.0
		4275.0	-7681.2	0.0	0.0	0.0	0.0
		7090.3	-5241.8	0.0	0.0	0.0	0.0
		6798.9	-5626.8	0.0	0.0	0.0	0.0
		-2078.4	5574.8	0.0	0.0	0.0	0.0
		-2369.8	5189.8	0.0	0.0	0.0	0.0
		445.5	7629.2	0.0	0.0	0.0	0.0
		154.1	7244.2	0.0	0.0	0.0	0.0
		-1741.9	6139.7	0.0	0.0	0.0	0.0
		-2033.3	5754.7	0.0	0.0	0.0	0.0
		782.0	8194.1	0.0	0.0	0.0	0.0
		490.6	7809.1	0.0	0.0	0.0	0.0
Nodo	71	SX	SY	SZ	RX	RY	RZ
		-439.5	-572.2	0.0	0.0	0.0	0.0
		-1654.3	-605.4	0.0	0.0	0.0	0.0
		3267.5	-802.9	0.0	0.0	0.0	0.0
		2052.7	-836.0	0.0	0.0	0.0	0.0
		1030.3	-527.4	0.0	0.0	0.0	0.0
		-184.5	-560.5	0.0	0.0	0.0	0.0
		4737.2	-758.0	0.0	0.0	0.0	0.0
		3522.4	-791.2	0.0	0.0	0.0	0.0
		-3023.4	-134.6	0.0	0.0	0.0	0.0
		-4238.2	-167.7	0.0	0.0	0.0	0.0
		683.5	-365.2	0.0	0.0	0.0	0.0
		-531.3	-398.4	0.0	0.0	0.0	0.0
		-1553.7	-89.8	0.0	0.0	0.0	0.0
		-2768.5	-122.9	0.0	0.0	0.0	0.0
		2153.3	-320.4	0.0	0.0	0.0	0.0
		938.5	-353.6	0.0	0.0	0.0	0.0
Nodo	72	SX	SY	SZ	RX	RY	RZ
		3109.4	2027.5	0.0	0.0	0.0	0.0
		2101.4	2473.6	0.0	0.0	0.0	0.0
		-1342.9	467.9	0.0	0.0	0.0	0.0
		-2350.9	914.0	0.0	0.0	0.0	0.0
		4328.3	1487.8	0.0	0.0	0.0	0.0
		3320.2	1933.9	0.0	0.0	0.0	0.0
		-124.1	-71.8	0.0	0.0	0.0	0.0
		-1132.1	374.3	0.0	0.0	0.0	0.0
		-3373.3	-3014.3	0.0	0.0	0.0	0.0
		-4381.3	-2568.2	0.0	0.0	0.0	0.0
		-7825.6	-4573.9	0.0	0.0	0.0	0.0
		-8833.7	-4127.8	0.0	0.0	0.0	0.0
		-2154.5	-3554.0	0.0	0.0	0.0	0.0
		-3162.5	-3107.9	0.0	0.0	0.0	0.0
		-6606.8	-5113.5	0.0	0.0	0.0	0.0
		-7614.8	-4667.5	0.0	0.0	0.0	0.0
Nodo	73	SX	SY	SZ	RX	RY	RZ
		-3103.7	-2106.0	0.0	0.0	0.0	0.0
		-3060.4	-2347.8	0.0	0.0	0.0	0.0
		-2840.2	-3178.1	0.0	0.0	0.0	0.0
		-2796.9	-3419.9	0.0	0.0	0.0	0.0
		-3167.3	-1810.3	0.0	0.0	0.0	0.0
		-3124.0	-2052.2	0.0	0.0	0.0	0.0
		-2903.8	-2882.5	0.0	0.0	0.0	0.0
		-2860.5	-3124.3	0.0	0.0	0.0	0.0
		-7422.7	-1413.3	0.0	0.0	0.0	0.0
		-7379.3	-1655.2	0.0	0.0	0.0	0.0
		-7159.2	-2485.5	0.0	0.0	0.0	0.0
		-7115.8	-2727.3	0.0	0.0	0.0	0.0
		-7486.3	-1117.7	0.0	0.0	0.0	0.0
		-7442.9	-1359.5	0.0	0.0	0.0	0.0
		-7222.8	-2189.8	0.0	0.0	0.0	0.0
		-7179.4	-2431.7	0.0	0.0	0.0	0.0
Nodo	74	SX	SY	SZ	RX	RY	RZ
		254.6	-1060.2	0.0	0.0	0.0	0.0
		284.5	-1118.1	0.0	0.0	0.0	0.0
		458.1	-1210.7	0.0	0.0	0.0	0.0
		488.0	-1268.6	0.0	0.0	0.0	0.0
		211.8	-1025.9	0.0	0.0	0.0	0.0
		241.7	-1083.8	0.0	0.0	0.0	0.0
		415.3	-1176.5	0.0	0.0	0.0	0.0
		445.2	-1234.3	0.0	0.0	0.0	0.0
		-2206.8	-987.5	0.0	0.0	0.0	0.0
		-2176.9	-1045.3	0.0	0.0	0.0	0.0
		-2003.3	-1138.0	0.0	0.0	0.0	0.0
		-1973.4	-1195.8	0.0	0.0	0.0	0.0

		-2249.6	-953.2	0.0	0.0	0.0	0.0
		-2219.7	-1011.0	0.0	0.0	0.0	0.0
		-2046.1	-1103.7	0.0	0.0	0.0	0.0
		-2016.3	-1161.6	0.0	0.0	0.0	0.0
Nodo	75	SX	SY	SZ	RX	RY	RZ
		908.9	-421.7	0.0	0.0	0.0	0.0
		948.0	-340.5	0.0	0.0	0.0	0.0
		1262.8	63.1	0.0	0.0	0.0	0.0
		1301.9	144.3	0.0	0.0	0.0	0.0
		852.0	-538.1	0.0	0.0	0.0	0.0
		891.2	-456.9	0.0	0.0	0.0	0.0
		1206.0	-53.3	0.0	0.0	0.0	0.0
		1245.1	27.9	0.0	0.0	0.0	0.0
		-1183.3	-783.8	0.0	0.0	0.0	0.0
		-1144.2	-702.6	0.0	0.0	0.0	0.0
		-829.4	-299.0	0.0	0.0	0.0	0.0
		-790.2	-217.8	0.0	0.0	0.0	0.0
		-1240.1	-900.1	0.0	0.0	0.0	0.0
		-1201.0	-818.9	0.0	0.0	0.0	0.0
		-886.2	-415.3	0.0	0.0	0.0	0.0
		-847.1	-334.1	0.0	0.0	0.0	0.0
Nodo	76	SX	SY	SZ	RX	RY	RZ
		905.2	1286.2	0.0	0.0	0.0	0.0
		862.2	1241.9	0.0	0.0	0.0	0.0
		629.5	-13.4	0.0	0.0	0.0	0.0
		586.5	-57.8	0.0	0.0	0.0	0.0
		954.7	1331.8	0.0	0.0	0.0	0.0
		911.7	1287.4	0.0	0.0	0.0	0.0
		679.0	32.1	0.0	0.0	0.0	0.0
		636.0	-12.2	0.0	0.0	0.0	0.0
		-1185.3	253.8	0.0	0.0	0.0	0.0
		-1228.3	209.5	0.0	0.0	0.0	0.0
		-1461.0	-1045.9	0.0	0.0	0.0	0.0
		-1504.0	-1090.2	0.0	0.0	0.0	0.0
		-1135.9	299.3	0.0	0.0	0.0	0.0
		-1178.9	255.0	0.0	0.0	0.0	0.0
		-1411.5	-1000.4	0.0	0.0	0.0	0.0
		-1454.5	-1044.7	0.0	0.0	0.0	0.0
Nodo	77	SX	SY	SZ	RX	RY	RZ
		2681.9	-724.7	0.0	0.0	0.0	0.0
		2655.8	-720.0	0.0	0.0	0.0	0.0
		2483.0	-168.3	0.0	0.0	0.0	0.0
		2456.8	-163.5	0.0	0.0	0.0	0.0
		2709.2	-716.9	0.0	0.0	0.0	0.0
		2683.0	-712.1	0.0	0.0	0.0	0.0
		2510.2	-160.4	0.0	0.0	0.0	0.0
		2484.1	-155.6	0.0	0.0	0.0	0.0
		-165.4	-717.0	0.0	0.0	0.0	0.0
		-191.5	-712.3	0.0	0.0	0.0	0.0
		-364.4	-160.6	0.0	0.0	0.0	0.0
		-390.5	-155.8	0.0	0.0	0.0	0.0
		-138.1	-709.1	0.0	0.0	0.0	0.0
		-164.3	-704.4	0.0	0.0	0.0	0.0
		-337.1	-152.7	0.0	0.0	0.0	0.0
		-363.2	-147.9	0.0	0.0	0.0	0.0
Nodo	78	SX	SY	SZ	RX	RY	RZ
		1032.4	266.1	0.0	0.0	0.0	0.0
		1014.8	204.5	0.0	0.0	0.0	0.0
		1083.2	729.7	0.0	0.0	0.0	0.0
		1065.6	668.1	0.0	0.0	0.0	0.0
		1049.1	365.7	0.0	0.0	0.0	0.0
		1031.5	304.1	0.0	0.0	0.0	0.0
		1099.9	829.3	0.0	0.0	0.0	0.0
		1082.3	767.7	0.0	0.0	0.0	0.0
		-1062.2	-913.3	0.0	0.0	0.0	0.0
		-1079.8	-974.9	0.0	0.0	0.0	0.0
		-1011.4	-449.7	0.0	0.0	0.0	0.0
		-1029.0	-511.3	0.0	0.0	0.0	0.0
		-1045.5	-813.7	0.0	0.0	0.0	0.0
		-1063.1	-875.3	0.0	0.0	0.0	0.0
		-994.7	-350.1	0.0	0.0	0.0	0.0
		-1012.3	-411.7	0.0	0.0	0.0	0.0
Nodo	79	SX	SY	SZ	RX	RY	RZ
		1020.3	-241.0	0.0	0.0	0.0	0.0
		998.9	-203.9	0.0	0.0	0.0	0.0
		1083.9	-385.4	0.0	0.0	0.0	0.0
		1062.5	-348.2	0.0	0.0	0.0	0.0
		1041.0	-268.6	0.0	0.0	0.0	0.0
		1019.6	-231.5	0.0	0.0	0.0	0.0
		1104.6	-412.9	0.0	0.0	0.0	0.0
		1083.2	-375.8	0.0	0.0	0.0	0.0
		-839.2	-352.7	0.0	0.0	0.0	0.0
		-860.6	-315.6	0.0	0.0	0.0	0.0

		-775.6	-497.0	0.0	0.0	0.0	0.0
		-797.0	-459.9	0.0	0.0	0.0	0.0
		-818.5	-380.2	0.0	0.0	0.0	0.0
		-840.0	-343.1	0.0	0.0	0.0	0.0
		-755.0	-524.5	0.0	0.0	0.0	0.0
		-776.4	-487.4	0.0	0.0	0.0	0.0
Nodo	80	SX	SY	SZ	RX	RY	RZ
		787.3	561.3	0.0	0.0	0.0	0.0
		759.8	649.2	0.0	0.0	0.0	0.0
		868.1	210.2	0.0	0.0	0.0	0.0
		840.6	298.1	0.0	0.0	0.0	0.0
		815.9	474.5	0.0	0.0	0.0	0.0
		788.4	562.4	0.0	0.0	0.0	0.0
		896.7	123.4	0.0	0.0	0.0	0.0
		869.2	211.3	0.0	0.0	0.0	0.0
		-1060.6	659.6	0.0	0.0	0.0	0.0
		-1088.1	747.5	0.0	0.0	0.0	0.0
		-979.8	308.4	0.0	0.0	0.0	0.0
		-1007.3	396.3	0.0	0.0	0.0	0.0
		-1032.0	572.8	0.0	0.0	0.0	0.0
		-1059.5	660.7	0.0	0.0	0.0	0.0
		-951.2	221.7	0.0	0.0	0.0	0.0
		-978.7	309.5	0.0	0.0	0.0	0.0
Nodo	81	SX	SY	SZ	RX	RY	RZ
		1338.1	1560.1	0.0	0.0	0.0	0.0
		1309.9	1690.9	0.0	0.0	0.0	0.0
		1416.6	1125.3	0.0	0.0	0.0	0.0
		1388.4	1256.1	0.0	0.0	0.0	0.0
		1368.8	1430.5	0.0	0.0	0.0	0.0
		1340.5	1561.3	0.0	0.0	0.0	0.0
		1447.3	995.8	0.0	0.0	0.0	0.0
		1419.0	1126.5	0.0	0.0	0.0	0.0
		-556.3	1696.2	0.0	0.0	0.0	0.0
		-584.6	1827.0	0.0	0.0	0.0	0.0
		-477.8	1261.4	0.0	0.0	0.0	0.0
		-506.1	1392.2	0.0	0.0	0.0	0.0
		-525.7	1566.6	0.0	0.0	0.0	0.0
		-553.9	1697.4	0.0	0.0	0.0	0.0
		-447.2	1131.9	0.0	0.0	0.0	0.0
		-475.4	1262.6	0.0	0.0	0.0	0.0
Nodo	82	SX	SY	SZ	RX	RY	RZ
		928.3	1145.6	0.0	0.0	0.0	0.0
		887.4	1299.4	0.0	0.0	0.0	0.0
		1056.2	615.6	0.0	0.0	0.0	0.0
		1015.3	769.4	0.0	0.0	0.0	0.0
		976.9	989.0	0.0	0.0	0.0	0.0
		936.0	1142.8	0.0	0.0	0.0	0.0
		1104.8	459.0	0.0	0.0	0.0	0.0
		1064.0	612.8	0.0	0.0	0.0	0.0
		-630.1	969.1	0.0	0.0	0.0	0.0
		-670.9	1122.9	0.0	0.0	0.0	0.0
		-502.1	439.1	0.0	0.0	0.0	0.0
		-543.0	592.9	0.0	0.0	0.0	0.0
		-581.4	812.6	0.0	0.0	0.0	0.0
		-622.3	966.4	0.0	0.0	0.0	0.0
		-453.5	282.6	0.0	0.0	0.0	0.0
		-494.4	436.4	0.0	0.0	0.0	0.0
Nodo	83	SX	SY	SZ	RX	RY	RZ
		6489.2	-728.4	0.0	0.0	0.0	0.0
		6457.8	-156.9	0.0	0.0	0.0	0.0
		6610.7	-2924.4	0.0	0.0	0.0	0.0
		6579.3	-2352.8	0.0	0.0	0.0	0.0
		6522.9	-1465.7	0.0	0.0	0.0	0.0
		6491.4	-894.1	0.0	0.0	0.0	0.0
		6644.4	-3661.6	0.0	0.0	0.0	0.0
		6612.9	-3090.0	0.0	0.0	0.0	0.0
		4131.6	-223.2	0.0	0.0	0.0	0.0
		4100.1	348.3	0.0	0.0	0.0	0.0
		4253.1	-2419.2	0.0	0.0	0.0	0.0
		4221.6	-1847.6	0.0	0.0	0.0	0.0
		4165.2	-960.5	0.0	0.0	0.0	0.0
		4133.8	-388.9	0.0	0.0	0.0	0.0
		4286.7	-3156.4	0.0	0.0	0.0	0.0
		4255.3	-2584.8	0.0	0.0	0.0	0.0
Nodo	84	SX	SY	SZ	RX	RY	RZ
		-2638.2	-3864.8	0.0	0.0	0.0	0.0
		-2629.8	-4007.0	0.0	0.0	0.0	0.0
		-2578.0	-4509.1	0.0	0.0	0.0	0.0
		-2569.6	-4651.3	0.0	0.0	0.0	0.0
		-2648.9	-3716.3	0.0	0.0	0.0	0.0
		-2640.5	-3858.5	0.0	0.0	0.0	0.0
		-2588.7	-4360.6	0.0	0.0	0.0	0.0
		-2580.4	-4502.8	0.0	0.0	0.0	0.0

		-3769.3	-4216.5	0.0	0.0	0.0	0.0
		-3760.9	-4358.6	0.0	0.0	0.0	0.0
		-3709.1	-4860.8	0.0	0.0	0.0	0.0
		-3700.7	-5002.9	0.0	0.0	0.0	0.0
		-3780.0	-4068.0	0.0	0.0	0.0	0.0
		-3771.6	-4210.1	0.0	0.0	0.0	0.0
		-3719.9	-4712.3	0.0	0.0	0.0	0.0
		-3711.5	-4854.5	0.0	0.0	0.0	0.0
Nodo	85	SX	SY	SZ	RX	RY	RZ
		3725.1	-1398.5	0.0	0.0	0.0	0.0
		3696.6	-1229.5	0.0	0.0	0.0	0.0
		3810.4	-2147.3	0.0	0.0	0.0	0.0
		3782.0	-1978.3	0.0	0.0	0.0	0.0
		3761.3	-1597.7	0.0	0.0	0.0	0.0
		3732.9	-1428.7	0.0	0.0	0.0	0.0
		3846.7	-2346.6	0.0	0.0	0.0	0.0
		3818.3	-2177.6	0.0	0.0	0.0	0.0
		2514.8	-4376.5	0.0	0.0	0.0	0.0
		2486.4	-4207.5	0.0	0.0	0.0	0.0
		2600.1	-5125.4	0.0	0.0	0.0	0.0
		2571.7	-4956.3	0.0	0.0	0.0	0.0
		2551.0	-4575.8	0.0	0.0	0.0	0.0
		2522.6	-4406.8	0.0	0.0	0.0	0.0
		2636.4	-5324.6	0.0	0.0	0.0	0.0
		2608.0	-5155.6	0.0	0.0	0.0	0.0
Nodo	86	SX	SY	SZ	RX	RY	RZ
		-4765.9	-2162.2	0.0	0.0	0.0	0.0
		-4764.3	-2480.8	0.0	0.0	0.0	0.0
		-4751.1	-3525.2	0.0	0.0	0.0	0.0
		-4749.5	-3843.8	0.0	0.0	0.0	0.0
		-4767.9	-1787.1	0.0	0.0	0.0	0.0
		-4766.3	-2105.6	0.0	0.0	0.0	0.0
		-4753.2	-3150.1	0.0	0.0	0.0	0.0
		-4751.5	-3468.6	0.0	0.0	0.0	0.0
		-5097.0	-3547.0	0.0	0.0	0.0	0.0
		-5095.4	-3865.6	0.0	0.0	0.0	0.0
		-5082.3	-4910.0	0.0	0.0	0.0	0.0
		-5080.6	-5228.6	0.0	0.0	0.0	0.0
		-5099.1	-3171.8	0.0	0.0	0.0	0.0
		-5097.5	-3490.4	0.0	0.0	0.0	0.0
		-5084.3	-4534.8	0.0	0.0	0.0	0.0
		-5082.7	-4853.4	0.0	0.0	0.0	0.0
Nodo	87	SX	SY	SZ	RX	RY	RZ
		5052.8	-541.6	0.0	0.0	0.0	0.0
		5041.8	-187.5	0.0	0.0	0.0	0.0
		5086.1	-1981.1	0.0	0.0	0.0	0.0
		5075.1	-1626.9	0.0	0.0	0.0	0.0
		5070.8	-1003.5	0.0	0.0	0.0	0.0
		5059.9	-649.3	0.0	0.0	0.0	0.0
		5104.1	-2443.0	0.0	0.0	0.0	0.0
		5093.2	-2088.8	0.0	0.0	0.0	0.0
		4644.3	-3319.5	0.0	0.0	0.0	0.0
		4633.3	-2965.3	0.0	0.0	0.0	0.0
		4677.6	-4759.0	0.0	0.0	0.0	0.0
		4666.6	-4404.8	0.0	0.0	0.0	0.0
		4662.3	-3781.4	0.0	0.0	0.0	0.0
		4651.4	-3427.2	0.0	0.0	0.0	0.0
		4695.6	-5220.8	0.0	0.0	0.0	0.0
		4684.7	-4866.6	0.0	0.0	0.0	0.0
Nodo	88	SX	SY	SZ	RX	RY	RZ
		-5277.7	1658.3	0.0	0.0	0.0	0.0
		-5278.5	1323.1	0.0	0.0	0.0	0.0
		-5280.0	265.9	0.0	0.0	0.0	0.0
		-5280.7	-69.3	0.0	0.0	0.0	0.0
		-5277.1	2061.3	0.0	0.0	0.0	0.0
		-5277.8	1726.1	0.0	0.0	0.0	0.0
		-5279.3	668.9	0.0	0.0	0.0	0.0
		-5280.1	333.8	0.0	0.0	0.0	0.0
		-5310.4	-721.0	0.0	0.0	0.0	0.0
		-5311.2	-1056.2	0.0	0.0	0.0	0.0
		-5312.7	-2113.4	0.0	0.0	0.0	0.0
		-5313.4	-2448.6	0.0	0.0	0.0	0.0
		-5309.8	-318.0	0.0	0.0	0.0	0.0
		-5310.5	-653.1	0.0	0.0	0.0	0.0
		-5312.0	-1710.3	0.0	0.0	0.0	0.0
		-5312.7	-2045.5	0.0	0.0	0.0	0.0
Nodo	89	SX	SY	SZ	RX	RY	RZ
		5327.1	1308.3	0.0	0.0	0.0	0.0
		5322.6	1655.7	0.0	0.0	0.0	0.0
		5342.9	-51.3	0.0	0.0	0.0	0.0
		5338.4	296.2	0.0	0.0	0.0	0.0
		5339.8	844.6	0.0	0.0	0.0	0.0
		5335.3	1192.1	0.0	0.0	0.0	0.0

		5355.6	-515.0	0.0	0.0	0.0	0.0
		5351.1	-167.5	0.0	0.0	0.0	0.0
		5261.0	-202.6	0.0	0.0	0.0	0.0
		5256.4	144.9	0.0	0.0	0.0	0.0
		5276.8	-1562.2	0.0	0.0	0.0	0.0
		5272.3	-1214.7	0.0	0.0	0.0	0.0
		5273.7	-666.3	0.0	0.0	0.0	0.0
		5269.2	-318.8	0.0	0.0	0.0	0.0
		5289.5	-2025.8	0.0	0.0	0.0	0.0
		5285.0	-1678.4	0.0	0.0	0.0	0.0
Nodo	90	SX	SY	SZ	RX	RY	RZ
		-4826.6	5486.1	0.0	0.0	0.0	0.0
		-4830.9	5210.6	0.0	0.0	0.0	0.0
		-4845.1	4404.8	0.0	0.0	0.0	0.0
		-4849.3	4129.2	0.0	0.0	0.0	0.0
		-4822.4	5822.2	0.0	0.0	0.0	0.0
		-4826.7	5546.7	0.0	0.0	0.0	0.0
		-4840.8	4740.8	0.0	0.0	0.0	0.0
		-4845.1	4465.3	0.0	0.0	0.0	0.0
		-4714.8	2212.5	0.0	0.0	0.0	0.0
		-4719.1	1936.9	0.0	0.0	0.0	0.0
		-4733.3	1131.1	0.0	0.0	0.0	0.0
		-4737.6	855.6	0.0	0.0	0.0	0.0
		-4710.6	2548.5	0.0	0.0	0.0	0.0
		-4714.9	2273.0	0.0	0.0	0.0	0.0
		-4729.1	1467.2	0.0	0.0	0.0	0.0
		-4733.4	1191.7	0.0	0.0	0.0	0.0
Nodo	91	SX	SY	SZ	RX	RY	RZ
		4806.4	3039.8	0.0	0.0	0.0	0.0
		4800.5	3204.2	0.0	0.0	0.0	0.0
		4835.3	2451.3	0.0	0.0	0.0	0.0
		4829.4	2615.7	0.0	0.0	0.0	0.0
		4821.4	2806.4	0.0	0.0	0.0	0.0
		4815.5	2970.7	0.0	0.0	0.0	0.0
		4850.4	2217.9	0.0	0.0	0.0	0.0
		4844.5	2382.3	0.0	0.0	0.0	0.0
		4925.1	2807.0	0.0	0.0	0.0	0.0
		4919.3	2971.3	0.0	0.0	0.0	0.0
		4954.1	2218.5	0.0	0.0	0.0	0.0
		4948.2	2382.9	0.0	0.0	0.0	0.0
		4940.2	2573.5	0.0	0.0	0.0	0.0
		4934.3	2737.9	0.0	0.0	0.0	0.0
		4969.1	1985.0	0.0	0.0	0.0	0.0
		4963.3	2149.4	0.0	0.0	0.0	0.0
Nodo	92	SX	SY	SZ	RX	RY	RZ
		-2409.0	7832.8	0.0	0.0	0.0	0.0
		-2417.4	7738.7	0.0	0.0	0.0	0.0
		-2448.7	7542.1	0.0	0.0	0.0	0.0
		-2457.1	7447.9	0.0	0.0	0.0	0.0
		-2403.2	7948.5	0.0	0.0	0.0	0.0
		-2411.6	7854.3	0.0	0.0	0.0	0.0
		-2442.9	7657.8	0.0	0.0	0.0	0.0
		-2451.3	7563.6	0.0	0.0	0.0	0.0
		-1981.2	4225.3	0.0	0.0	0.0	0.0
		-1989.6	4131.1	0.0	0.0	0.0	0.0
		-2020.9	3934.6	0.0	0.0	0.0	0.0
		-2029.3	3840.4	0.0	0.0	0.0	0.0
		-1975.4	4341.0	0.0	0.0	0.0	0.0
		-1983.8	4246.8	0.0	0.0	0.0	0.0
		-2015.1	4050.2	0.0	0.0	0.0	0.0
		-2023.5	3956.1	0.0	0.0	0.0	0.0
Nodo	93	SX	SY	SZ	RX	RY	RZ
		2304.5	4054.3	0.0	0.0	0.0	0.0
		2290.4	3807.3	0.0	0.0	0.0	0.0
		2384.8	5133.7	0.0	0.0	0.0	0.0
		2370.7	4886.7	0.0	0.0	0.0	0.0
		2324.7	4361.8	0.0	0.0	0.0	0.0
		2310.6	4114.7	0.0	0.0	0.0	0.0
		2405.0	5441.1	0.0	0.0	0.0	0.0
		2390.9	5194.1	0.0	0.0	0.0	0.0
		2833.9	5242.3	0.0	0.0	0.0	0.0
		2819.8	4995.3	0.0	0.0	0.0	0.0
		2914.2	6321.7	0.0	0.0	0.0	0.0
		2900.1	6074.7	0.0	0.0	0.0	0.0
		2854.1	5549.7	0.0	0.0	0.0	0.0
		2840.0	5302.7	0.0	0.0	0.0	0.0
		2934.4	6629.1	0.0	0.0	0.0	0.0
		2920.3	6382.1	0.0	0.0	0.0	0.0
Nodo	94	SX	SY	SZ	RX	RY	RZ
		435.2	3852.4	0.0	0.0	0.0	0.0
		340.1	3758.9	0.0	0.0	0.0	0.0
		65.1	3480.9	0.0	0.0	0.0	0.0
		-30.1	3387.4	0.0	0.0	0.0	0.0

		573.9	3987.8	0.0	0.0	0.0	0.0
		478.8	3894.3	0.0	0.0	0.0	0.0
		203.8	3616.4	0.0	0.0	0.0	0.0
		108.6	3522.9	0.0	0.0	0.0	0.0
		361.2	1905.9	0.0	0.0	0.0	0.0
		266.1	1812.4	0.0	0.0	0.0	0.0
		-8.9	1534.5	0.0	0.0	0.0	0.0
		-104.1	1440.9	0.0	0.0	0.0	0.0
		499.9	2041.3	0.0	0.0	0.0	0.0
		404.8	1947.8	0.0	0.0	0.0	0.0
		129.8	1669.9	0.0	0.0	0.0	0.0
		34.6	1576.4	0.0	0.0	0.0	0.0
Nodo	95	SX	SY	SZ	RX	RY	RZ
		-2202.4	3236.1	0.0	0.0	0.0	0.0
		-2331.5	3249.8	0.0	0.0	0.0	0.0
		-2757.1	3304.2	0.0	0.0	0.0	0.0
		-2886.1	3317.9	0.0	0.0	0.0	0.0
		-2011.5	3212.5	0.0	0.0	0.0	0.0
		-2140.5	3226.1	0.0	0.0	0.0	0.0
		-2566.1	3280.5	0.0	0.0	0.0	0.0
		-2695.2	3294.2	0.0	0.0	0.0	0.0
		-2101.8	2877.3	0.0	0.0	0.0	0.0
		-2230.9	2891.0	0.0	0.0	0.0	0.0
		-2656.5	2945.4	0.0	0.0	0.0	0.0
		-2785.6	2959.1	0.0	0.0	0.0	0.0
		-1910.9	2853.6	0.0	0.0	0.0	0.0
		-2040.0	2867.3	0.0	0.0	0.0	0.0
		-2465.6	2921.7	0.0	0.0	0.0	0.0
		-2594.7	2935.4	0.0	0.0	0.0	0.0
Nodo	96	SX	SY	SZ	RX	RY	RZ
		2443.1	5575.0	0.0	0.0	0.0	0.0
		2247.9	5559.3	0.0	0.0	0.0	0.0
		1857.4	5544.8	0.0	0.0	0.0	0.0
		1662.2	5529.0	0.0	0.0	0.0	0.0
		2735.0	5582.9	0.0	0.0	0.0	0.0
		2539.8	5567.1	0.0	0.0	0.0	0.0
		2149.3	5552.7	0.0	0.0	0.0	0.0
		1954.1	5536.9	0.0	0.0	0.0	0.0
		-1237.4	5523.3	0.0	0.0	0.0	0.0
		-1432.6	5507.5	0.0	0.0	0.0	0.0
		-1823.0	5493.1	0.0	0.0	0.0	0.0
		-2018.3	5477.3	0.0	0.0	0.0	0.0
		-945.5	5531.2	0.0	0.0	0.0	0.0
		-1140.7	5515.4	0.0	0.0	0.0	0.0
		-1531.1	5501.0	0.0	0.0	0.0	0.0
		-1726.4	5485.2	0.0	0.0	0.0	0.0
Nodo	97	SX	SY	SZ	RX	RY	RZ
		3742.5	4401.3	0.0	0.0	0.0	0.0
		3619.5	4354.0	0.0	0.0	0.0	0.0
		4109.3	4220.5	0.0	0.0	0.0	0.0
		3986.3	4173.2	0.0	0.0	0.0	0.0
		3956.4	4451.6	0.0	0.0	0.0	0.0
		3833.4	4404.3	0.0	0.0	0.0	0.0
		4323.2	4270.8	0.0	0.0	0.0	0.0
		4200.2	4223.5	0.0	0.0	0.0	0.0
		36.8	4456.9	0.0	0.0	0.0	0.0
		-86.2	4409.6	0.0	0.0	0.0	0.0
		403.6	4276.2	0.0	0.0	0.0	0.0
		280.6	4228.9	0.0	0.0	0.0	0.0
		250.7	4507.3	0.0	0.0	0.0	0.0
		127.7	4459.9	0.0	0.0	0.0	0.0
		617.5	4326.5	0.0	0.0	0.0	0.0
		494.5	4279.2	0.0	0.0	0.0	0.0
Nodo	98	SX	SY	SZ	RX	RY	RZ
		3765.2	6526.3	0.0	0.0	0.0	0.0
		3547.4	6332.6	0.0	0.0	0.0	0.0
		4401.5	5670.6	0.0	0.0	0.0	0.0
		4183.7	5476.9	0.0	0.0	0.0	0.0
		4109.4	6745.2	0.0	0.0	0.0	0.0
		3891.6	6551.5	0.0	0.0	0.0	0.0
		4745.7	5889.5	0.0	0.0	0.0	0.0
		4527.9	5695.8	0.0	0.0	0.0	0.0
		-3087.0	5960.4	0.0	0.0	0.0	0.0
		-3304.8	5766.7	0.0	0.0	0.0	0.0
		-2450.8	5104.7	0.0	0.0	0.0	0.0
		-2668.5	4911.0	0.0	0.0	0.0	0.0
		-2742.8	6179.3	0.0	0.0	0.0	0.0
		-2960.6	5985.6	0.0	0.0	0.0	0.0
		-2106.6	5323.6	0.0	0.0	0.0	0.0
		-2324.4	5129.9	0.0	0.0	0.0	0.0
Nodo	99	SX	SY	SZ	RX	RY	RZ
		1821.3	3576.2	0.0	0.0	0.0	0.0
		1644.2	3539.6	0.0	0.0	0.0	0.0

		2330.7	3408.3	0.0	0.0	0.0	0.0
		2153.6	3371.7	0.0	0.0	0.0	0.0
		2114.3	3616.3	0.0	0.0	0.0	0.0
		1937.2	3579.7	0.0	0.0	0.0	0.0
		2623.8	3448.4	0.0	0.0	0.0	0.0
		2446.6	3411.8	0.0	0.0	0.0	0.0
		-3926.7	3477.6	0.0	0.0	0.0	0.0
		-4103.8	3441.0	0.0	0.0	0.0	0.0
		-3417.2	3309.7	0.0	0.0	0.0	0.0
		-3594.4	3273.1	0.0	0.0	0.0	0.0
		-3633.6	3517.7	0.0	0.0	0.0	0.0
		-3810.8	3481.1	0.0	0.0	0.0	0.0
		-3124.2	3349.8	0.0	0.0	0.0	0.0
		-3301.3	3313.2	0.0	0.0	0.0	0.0
Nodo	100	SX	SY	SZ	RX	RY	RZ
		3507.2	4588.3	0.0	0.0	0.0	0.0
		3273.1	4569.1	0.0	0.0	0.0	0.0
		4188.0	4505.3	0.0	0.0	0.0	0.0
		3953.9	4486.1	0.0	0.0	0.0	0.0
		3881.5	4606.9	0.0	0.0	0.0	0.0
		3647.4	4587.6	0.0	0.0	0.0	0.0
		4562.3	4523.9	0.0	0.0	0.0	0.0
		4328.2	4504.6	0.0	0.0	0.0	0.0
		-4227.1	4536.6	0.0	0.0	0.0	0.0
		-4461.2	4517.3	0.0	0.0	0.0	0.0
		-3546.3	4453.6	0.0	0.0	0.0	0.0
		-3780.4	4434.3	0.0	0.0	0.0	0.0
		-3852.8	4555.1	0.0	0.0	0.0	0.0
		-4087.0	4535.9	0.0	0.0	0.0	0.0
		-3172.0	4472.1	0.0	0.0	0.0	0.0
		-3406.1	4452.9	0.0	0.0	0.0	0.0
Nodo	101	SX	SY	SZ	RX	RY	RZ
		3980.0	3500.6	0.0	0.0	0.0	0.0
		3769.7	3488.3	0.0	0.0	0.0	0.0
		4598.2	3419.9	0.0	0.0	0.0	0.0
		4387.9	3407.7	0.0	0.0	0.0	0.0
		4326.3	3515.2	0.0	0.0	0.0	0.0
		4116.0	3503.0	0.0	0.0	0.0	0.0
		4944.5	3434.5	0.0	0.0	0.0	0.0
		4734.2	3422.3	0.0	0.0	0.0	0.0
		-3405.5	3437.8	0.0	0.0	0.0	0.0
		-3615.8	3425.6	0.0	0.0	0.0	0.0
		-2787.3	3357.1	0.0	0.0	0.0	0.0
		-2997.6	3344.9	0.0	0.0	0.0	0.0
		-3059.2	3452.5	0.0	0.0	0.0	0.0
		-3269.5	3440.2	0.0	0.0	0.0	0.0
		-2441.0	3371.8	0.0	0.0	0.0	0.0
		-2651.3	3359.6	0.0	0.0	0.0	0.0
Nodo	102	SX	SY	SZ	RX	RY	RZ
		3809.8	6741.1	0.0	0.0	0.0	0.0
		3405.9	6625.7	0.0	0.0	0.0	0.0
		5016.1	5865.3	0.0	0.0	0.0	0.0
		4612.2	5749.9	0.0	0.0	0.0	0.0
		4403.8	6876.8	0.0	0.0	0.0	0.0
		3999.9	6761.5	0.0	0.0	0.0	0.0
		5610.1	6001.0	0.0	0.0	0.0	0.0
		5206.2	5885.6	0.0	0.0	0.0	0.0
		-7736.5	7602.1	0.0	0.0	0.0	0.0
		-8140.4	7486.7	0.0	0.0	0.0	0.0
		-6530.1	6726.3	0.0	0.0	0.0	0.0
		-6934.0	6610.9	0.0	0.0	0.0	0.0
		-7142.4	7737.9	0.0	0.0	0.0	0.0
		-7546.3	7622.5	0.0	0.0	0.0	0.0
		-5936.1	6862.0	0.0	0.0	0.0	0.0
		-6340.0	6746.6	0.0	0.0	0.0	0.0
Nodo	103	SX	SY	SZ	RX	RY	RZ
		3033.7	3862.8	0.0	0.0	0.0	0.0
		2591.5	3867.3	0.0	0.0	0.0	0.0
		1582.0	3848.7	0.0	0.0	0.0	0.0
		1139.8	3853.2	0.0	0.0	0.0	0.0
		3669.8	3856.3	0.0	0.0	0.0	0.0
		3227.6	3860.9	0.0	0.0	0.0	0.0
		2218.1	3842.3	0.0	0.0	0.0	0.0
		1775.9	3846.8	0.0	0.0	0.0	0.0
		-8138.0	3677.5	0.0	0.0	0.0	0.0
		-8580.2	3682.1	0.0	0.0	0.0	0.0
		-9589.7	3663.5	0.0	0.0	0.0	0.0
		-10031.9	3668.0	0.0	0.0	0.0	0.0
		-7501.9	3671.1	0.0	0.0	0.0	0.0
		-7944.1	3675.6	0.0	0.0	0.0	0.0
		-8953.6	3657.0	0.0	0.0	0.0	0.0
		-9395.8	3661.5	0.0	0.0	0.0	0.0
Nodo	104	SX	SY	SZ	RX	RY	RZ



	4527.5	4989.8	0.0	0.0	0.0	0.0
	4024.6	5002.9	0.0	0.0	0.0	0.0
	2854.8	5134.4	0.0	0.0	0.0	0.0
	2351.9	5147.6	0.0	0.0	0.0	0.0
	5240.3	4970.0	0.0	0.0	0.0	0.0
	4737.4	4983.1	0.0	0.0	0.0	0.0
	3567.6	5114.6	0.0	0.0	0.0	0.0
	3064.7	5127.8	0.0	0.0	0.0	0.0
	-8123.0	5086.9	0.0	0.0	0.0	0.0
	-8625.9	5100.1	0.0	0.0	0.0	0.0
	-9795.7	5231.6	0.0	0.0	0.0	0.0
	-10298.6	5244.7	0.0	0.0	0.0	0.0
	-7410.2	5067.1	0.0	0.0	0.0	0.0
	-7913.1	5080.3	0.0	0.0	0.0	0.0
	-9082.9	5211.8	0.0	0.0	0.0	0.0
	-9585.8	5224.9	0.0	0.0	0.0	0.0
Nodo 105	SX	SY	SZ	RX	RY	RZ
	-476.4	3503.1	0.0	0.0	0.0	0.0
	-485.0	3565.8	0.0	0.0	0.0	0.0
	-1039.6	4051.6	0.0	0.0	0.0	0.0
	-1048.2	4114.3	0.0	0.0	0.0	0.0
	-396.3	3426.8	0.0	0.0	0.0	0.0
	-404.8	3489.6	0.0	0.0	0.0	0.0
	-959.5	3975.3	0.0	0.0	0.0	0.0
	-968.0	4038.0	0.0	0.0	0.0	0.0
	-238.3	4114.4	0.0	0.0	0.0	0.0
	-246.9	4177.1	0.0	0.0	0.0	0.0
	-801.5	4662.8	0.0	0.0	0.0	0.0
	-810.1	4725.5	0.0	0.0	0.0	0.0
	-158.2	4038.1	0.0	0.0	0.0	0.0
	-166.7	4100.8	0.0	0.0	0.0	0.0
	-721.4	4586.5	0.0	0.0	0.0	0.0
	-729.9	4649.3	0.0	0.0	0.0	0.0
Nodo 106	SX	SY	SZ	RX	RY	RZ
	-2969.0	-817.7	0.0	0.0	0.0	0.0
	-2738.8	-556.4	0.0	0.0	0.0	0.0
	-3682.9	1624.2	0.0	0.0	0.0	0.0
	-3452.7	1885.5	0.0	0.0	0.0	0.0
	-3220.8	-1112.9	0.0	0.0	0.0	0.0
	-2990.7	-851.7	0.0	0.0	0.0	0.0
	-3934.7	1329.0	0.0	0.0	0.0	0.0
	-3704.6	1590.2	0.0	0.0	0.0	0.0
	3379.8	2675.2	0.0	0.0	0.0	0.0
	3610.0	2936.4	0.0	0.0	0.0	0.0
	2665.9	5117.0	0.0	0.0	0.0	0.0
	2896.1	5378.3	0.0	0.0	0.0	0.0
	3128.0	2379.9	0.0	0.0	0.0	0.0
	3358.1	2641.1	0.0	0.0	0.0	0.0
	2414.1	4821.8	0.0	0.0	0.0	0.0
	2644.2	5083.0	0.0	0.0	0.0	0.0
Nodo 107	SX	SY	SZ	RX	RY	RZ
	-9986.7	1937.7	0.0	0.0	0.0	0.0
	-9383.2	1604.5	0.0	0.0	0.0	0.0
	-8131.2	-998.8	0.0	0.0	0.0	0.0
	-7527.8	-1332.0	0.0	0.0	0.0	0.0
	-10731.6	2327.9	0.0	0.0	0.0	0.0
	-10128.2	1994.7	0.0	0.0	0.0	0.0
	-8876.2	-608.6	0.0	0.0	0.0	0.0
	-8272.7	-941.8	0.0	0.0	0.0	0.0
	4292.3	-2828.0	0.0	0.0	0.0	0.0
	4895.8	-3161.3	0.0	0.0	0.0	0.0
	6147.8	-5764.5	0.0	0.0	0.0	0.0
	6751.2	-6097.7	0.0	0.0	0.0	0.0
	3547.4	-2437.9	0.0	0.0	0.0	0.0
	4150.8	-2771.1	0.0	0.0	0.0	0.0
	5402.8	-5374.4	0.0	0.0	0.0	0.0
	6006.3	-5707.6	0.0	0.0	0.0	0.0
Nodo 108	SX	SY	SZ	RX	RY	RZ
	-10815.0	2431.4	0.0	0.0	0.0	0.0
	-10389.1	2310.7	0.0	0.0	0.0	0.0
	-9332.2	508.1	0.0	0.0	0.0	0.0
	-8906.2	387.4	0.0	0.0	0.0	0.0
	-11284.2	2565.0	0.0	0.0	0.0	0.0
	-10858.3	2444.3	0.0	0.0	0.0	0.0
	-9801.3	641.6	0.0	0.0	0.0	0.0
	-9375.4	521.0	0.0	0.0	0.0	0.0
	-1985.2	1911.6	0.0	0.0	0.0	0.0
	-1559.3	1790.9	0.0	0.0	0.0	0.0
	-502.3	-11.8	0.0	0.0	0.0	0.0
	-76.4	-132.4	0.0	0.0	0.0	0.0
	-2454.3	2045.1	0.0	0.0	0.0	0.0
	-2028.4	1924.5	0.0	0.0	0.0	0.0
	-971.5	121.8	0.0	0.0	0.0	0.0
	-545.5	1.1	0.0	0.0	0.0	0.0

Nodo	109	SX	SY	SZ	RX	RY	RZ
		313.6	545.2	0.0	0.0	0.0	0.0
		355.5	534.2	0.0	0.0	0.0	0.0
		178.0	499.6	0.0	0.0	0.0	0.0
		219.9	488.6	0.0	0.0	0.0	0.0
		289.7	564.8	0.0	0.0	0.0	0.0
		331.6	553.7	0.0	0.0	0.0	0.0
		154.1	519.2	0.0	0.0	0.0	0.0
		196.0	508.1	0.0	0.0	0.0	0.0
		708.0	238.4	0.0	0.0	0.0	0.0
		749.9	227.3	0.0	0.0	0.0	0.0
		572.4	192.8	0.0	0.0	0.0	0.0
		614.3	181.7	0.0	0.0	0.0	0.0
		684.1	257.9	0.0	0.0	0.0	0.0
		725.9	246.9	0.0	0.0	0.0	0.0
		548.5	212.3	0.0	0.0	0.0	0.0
		590.4	201.3	0.0	0.0	0.0	0.0
Nodo	110	SX	SY	SZ	RX	RY	RZ
		2026.2	488.0	0.0	0.0	0.0	0.0
		2054.0	445.3	0.0	0.0	0.0	0.0
		1812.4	320.3	0.0	0.0	0.0	0.0
		1840.2	277.6	0.0	0.0	0.0	0.0
		1998.0	568.9	0.0	0.0	0.0	0.0
		2025.9	526.2	0.0	0.0	0.0	0.0
		1784.2	401.1	0.0	0.0	0.0	0.0
		1812.1	358.4	0.0	0.0	0.0	0.0
		1926.8	-380.6	0.0	0.0	0.0	0.0
		1954.7	-423.3	0.0	0.0	0.0	0.0
		1713.0	-548.4	0.0	0.0	0.0	0.0
		1740.9	-591.1	0.0	0.0	0.0	0.0
		1898.7	-299.8	0.0	0.0	0.0	0.0
		1926.5	-342.5	0.0	0.0	0.0	0.0
		1684.9	-467.5	0.0	0.0	0.0	0.0
		1712.7	-510.2	0.0	0.0	0.0	0.0
Nodo	111	SX	SY	SZ	RX	RY	RZ
		4795.7	7153.3	0.0	0.0	0.0	0.0
		4831.9	7066.9	0.0	0.0	0.0	0.0
		4401.2	6160.0	0.0	0.0	0.0	0.0
		4437.3	6073.7	0.0	0.0	0.0	0.0
		4783.6	7328.9	0.0	0.0	0.0	0.0
		4819.8	7242.5	0.0	0.0	0.0	0.0
		4389.0	6335.6	0.0	0.0	0.0	0.0
		4425.2	6249.3	0.0	0.0	0.0	0.0
		2977.4	3569.0	0.0	0.0	0.0	0.0
		3013.6	3482.7	0.0	0.0	0.0	0.0
		2582.8	2575.8	0.0	0.0	0.0	0.0
		2619.0	2489.5	0.0	0.0	0.0	0.0
		2965.2	3744.6	0.0	0.0	0.0	0.0
		3001.4	3658.3	0.0	0.0	0.0	0.0
		2570.6	2751.4	0.0	0.0	0.0	0.0
		2606.8	2665.1	0.0	0.0	0.0	0.0
Nodo	112	SX	SY	SZ	RX	RY	RZ
		2579.7	-20793.8	0.0	0.0	0.0	0.0
		2655.6	-20296.2	0.0	0.0	0.0	0.0
		2153.8	-18282.7	0.0	0.0	0.0	0.0
		2229.6	-17785.2	0.0	0.0	0.0	0.0
		2456.6	-21703.6	0.0	0.0	0.0	0.0
		2532.4	-21206.1	0.0	0.0	0.0	0.0
		2030.6	-19192.6	0.0	0.0	0.0	0.0
		2106.5	-18695.0	0.0	0.0	0.0	0.0
		2989.8	-6889.8	0.0	0.0	0.0	0.0
		3065.7	-6392.3	0.0	0.0	0.0	0.0
		2563.9	-4378.8	0.0	0.0	0.0	0.0
		2639.7	-3881.2	0.0	0.0	0.0	0.0
		2866.7	-7799.7	0.0	0.0	0.0	0.0
		2942.5	-7302.2	0.0	0.0	0.0	0.0
		2440.7	-5288.6	0.0	0.0	0.0	0.0
		2516.6	-4791.1	0.0	0.0	0.0	0.0
Nodo	113	SX	SY	SZ	RX	RY	RZ
		-3849.5	18806.4	0.0	0.0	0.0	0.0
		-3711.7	18388.3	0.0	0.0	0.0	0.0
		-3423.1	16425.5	0.0	0.0	0.0	0.0
		-3285.4	16007.4	0.0	0.0	0.0	0.0
		-4036.1	19566.4	0.0	0.0	0.0	0.0
		-3898.4	19148.3	0.0	0.0	0.0	0.0
		-3609.8	17185.5	0.0	0.0	0.0	0.0
		-3472.1	16767.4	0.0	0.0	0.0	0.0
		-448.2	7424.5	0.0	0.0	0.0	0.0
		-310.4	7006.4	0.0	0.0	0.0	0.0
		-21.9	5043.6	0.0	0.0	0.0	0.0
		115.9	4625.5	0.0	0.0	0.0	0.0
		-634.9	8184.5	0.0	0.0	0.0	0.0
		-497.1	7766.4	0.0	0.0	0.0	0.0

		-208.6	5803.6	0.0	0.0	0.0	0.0
		-70.8	5385.5	0.0	0.0	0.0	0.0
Nodo	114	SX	SY	SZ	RX	RY	RZ
		1353.1	4262.0	0.0	0.0	0.0	0.0
		1458.9	4248.8	0.0	0.0	0.0	0.0
		1778.5	4296.3	0.0	0.0	0.0	0.0
		1884.3	4283.1	0.0	0.0	0.0	0.0
		1268.5	4266.1	0.0	0.0	0.0	0.0
		1374.3	4252.9	0.0	0.0	0.0	0.0
		1693.9	4300.5	0.0	0.0	0.0	0.0
		1799.8	4287.3	0.0	0.0	0.0	0.0
		1632.6	3965.5	0.0	0.0	0.0	0.0
		1738.4	3952.2	0.0	0.0	0.0	0.0
		2058.0	3999.8	0.0	0.0	0.0	0.0
		2163.8	3986.6	0.0	0.0	0.0	0.0
		1548.0	3969.6	0.0	0.0	0.0	0.0
		1653.8	3956.4	0.0	0.0	0.0	0.0
		1973.4	4003.9	0.0	0.0	0.0	0.0
		2079.2	3990.7	0.0	0.0	0.0	0.0
Nodo	115	SX	SY	SZ	RX	RY	RZ
		6296.4	4941.8	0.0	0.0	0.0	0.0
		6175.1	4943.4	0.0	0.0	0.0	0.0
		7059.7	4940.4	0.0	0.0	0.0	0.0
		6938.5	4942.1	0.0	0.0	0.0	0.0
		6529.1	4938.1	0.0	0.0	0.0	0.0
		6407.8	4939.8	0.0	0.0	0.0	0.0
		7292.5	4936.8	0.0	0.0	0.0	0.0
		7171.2	4938.5	0.0	0.0	0.0	0.0
		1203.9	4953.0	0.0	0.0	0.0	0.0
		1082.6	4954.6	0.0	0.0	0.0	0.0
		1967.3	4951.7	0.0	0.0	0.0	0.0
		1846.0	4953.3	0.0	0.0	0.0	0.0
		1436.6	4949.4	0.0	0.0	0.0	0.0
		1315.4	4951.0	0.0	0.0	0.0	0.0
		2200.0	4948.0	0.0	0.0	0.0	0.0
		2078.8	4949.7	0.0	0.0	0.0	0.0
Nodo	116	SX	SY	SZ	RX	RY	RZ
		6413.9	3541.7	0.0	0.0	0.0	0.0
		6332.0	3551.6	0.0	0.0	0.0	0.0
		7055.5	3463.7	0.0	0.0	0.0	0.0
		6973.6	3473.6	0.0	0.0	0.0	0.0
		6599.1	3530.5	0.0	0.0	0.0	0.0
		6517.1	3540.4	0.0	0.0	0.0	0.0
		7240.7	3452.5	0.0	0.0	0.0	0.0
		7158.7	3462.4	0.0	0.0	0.0	0.0
		2359.8	3721.1	0.0	0.0	0.0	0.0
		2277.9	3731.1	0.0	0.0	0.0	0.0
		3001.4	3643.1	0.0	0.0	0.0	0.0
		2919.5	3653.1	0.0	0.0	0.0	0.0
		2545.0	3709.9	0.0	0.0	0.0	0.0
		2463.0	3719.8	0.0	0.0	0.0	0.0
		3186.6	3631.9	0.0	0.0	0.0	0.0
		3104.6	3641.8	0.0	0.0	0.0	0.0
Nodo	117	SX	SY	SZ	RX	RY	RZ
		5029.6	5542.5	0.0	0.0	0.0	0.0
		4939.6	5646.1	0.0	0.0	0.0	0.0
		5426.9	4776.7	0.0	0.0	0.0	0.0
		5337.0	4880.3	0.0	0.0	0.0	0.0
		5229.8	5419.0	0.0	0.0	0.0	0.0
		5139.9	5522.7	0.0	0.0	0.0	0.0
		5627.1	4653.2	0.0	0.0	0.0	0.0
		5537.2	4756.8	0.0	0.0	0.0	0.0
		-274.9	5807.7	0.0	0.0	0.0	0.0
		-364.8	5911.3	0.0	0.0	0.0	0.0
		122.4	5041.8	0.0	0.0	0.0	0.0
		32.5	5145.4	0.0	0.0	0.0	0.0
		-74.7	5684.2	0.0	0.0	0.0	0.0
		-164.6	5787.8	0.0	0.0	0.0	0.0
		322.7	4918.3	0.0	0.0	0.0	0.0
		232.7	5022.0	0.0	0.0	0.0	0.0
Nodo	118	SX	SY	SZ	RX	RY	RZ
		1441.7	3436.4	0.0	0.0	0.0	0.0
		1475.0	3451.7	0.0	0.0	0.0	0.0
		1311.8	3349.1	0.0	0.0	0.0	0.0
		1345.1	3364.4	0.0	0.0	0.0	0.0
		1479.7	3420.0	0.0	0.0	0.0	0.0
		1513.0	3435.3	0.0	0.0	0.0	0.0
		1349.8	3332.7	0.0	0.0	0.0	0.0
		1383.1	3348.0	0.0	0.0	0.0	0.0
		-1074.8	3467.2	0.0	0.0	0.0	0.0
		-1041.4	3482.6	0.0	0.0	0.0	0.0
		-1204.7	3379.9	0.0	0.0	0.0	0.0
		-1171.4	3395.3	0.0	0.0	0.0	0.0

		-1036.7	3450.8	0.0	0.0	0.0	0.0
		-1003.4	3466.1	0.0	0.0	0.0	0.0
		-1166.6	3363.5	0.0	0.0	0.0	0.0
		-1133.3	3378.8	0.0	0.0	0.0	0.0
Nodo	119	SX	SY	SZ	RX	RY	RZ
		2485.3	4524.9	0.0	0.0	0.0	0.0
		2471.1	4536.4	0.0	0.0	0.0	0.0
		2402.9	4470.0	0.0	0.0	0.0	0.0
		2388.7	4481.5	0.0	0.0	0.0	0.0
		2581.7	4514.6	0.0	0.0	0.0	0.0
		2567.4	4526.1	0.0	0.0	0.0	0.0
		2499.3	4459.7	0.0	0.0	0.0	0.0
		2485.0	4471.2	0.0	0.0	0.0	0.0
		-1241.6	4562.4	0.0	0.0	0.0	0.0
		-1255.9	4573.9	0.0	0.0	0.0	0.0
		-1324.1	4507.5	0.0	0.0	0.0	0.0
		-1338.3	4519.0	0.0	0.0	0.0	0.0
		-1145.3	4552.1	0.0	0.0	0.0	0.0
		-1159.5	4563.6	0.0	0.0	0.0	0.0
		-1227.7	4497.2	0.0	0.0	0.0	0.0
		-1242.0	4508.7	0.0	0.0	0.0	0.0
Nodo	120	SX	SY	SZ	RX	RY	RZ
		2802.2	3118.8	0.0	0.0	0.0	0.0
		2799.8	3125.0	0.0	0.0	0.0	0.0
		2692.0	3090.8	0.0	0.0	0.0	0.0
		2689.6	3097.0	0.0	0.0	0.0	0.0
		2873.8	3117.1	0.0	0.0	0.0	0.0
		2871.4	3123.3	0.0	0.0	0.0	0.0
		2763.6	3089.1	0.0	0.0	0.0	0.0
		2761.2	3095.3	0.0	0.0	0.0	0.0
		-542.2	3212.4	0.0	0.0	0.0	0.0
		-544.6	3218.6	0.0	0.0	0.0	0.0
		-652.4	3184.4	0.0	0.0	0.0	0.0
		-654.8	3190.6	0.0	0.0	0.0	0.0
		-470.6	3210.7	0.0	0.0	0.0	0.0
		-473.0	3216.9	0.0	0.0	0.0	0.0
		-580.8	3182.7	0.0	0.0	0.0	0.0
		-583.2	3188.9	0.0	0.0	0.0	0.0
Nodo	121	SX	SY	SZ	RX	RY	RZ
		1999.1	5446.0	0.0	0.0	0.0	0.0
		1964.2	5607.1	0.0	0.0	0.0	0.0
		1673.9	4658.5	0.0	0.0	0.0	0.0
		1639.0	4819.7	0.0	0.0	0.0	0.0
		2112.7	5263.2	0.0	0.0	0.0	0.0
		2077.8	5424.4	0.0	0.0	0.0	0.0
		1787.5	4475.8	0.0	0.0	0.0	0.0
		1752.6	4637.0	0.0	0.0	0.0	0.0
		-3189.3	5722.3	0.0	0.0	0.0	0.0
		-3224.1	5883.5	0.0	0.0	0.0	0.0
		-3514.5	4934.9	0.0	0.0	0.0	0.0
		-3549.4	5096.0	0.0	0.0	0.0	0.0
		-3075.7	5539.5	0.0	0.0	0.0	0.0
		-3110.5	5700.7	0.0	0.0	0.0	0.0
		-3400.9	4752.1	0.0	0.0	0.0	0.0
		-3435.7	4913.3	0.0	0.0	0.0	0.0
Nodo	122	SX	SY	SZ	RX	RY	RZ
		288.7	3661.4	0.0	0.0	0.0	0.0
		309.3	3666.9	0.0	0.0	0.0	0.0
		-221.5	3638.3	0.0	0.0	0.0	0.0
		-200.8	3643.8	0.0	0.0	0.0	0.0
		331.6	3655.7	0.0	0.0	0.0	0.0
		352.3	3661.1	0.0	0.0	0.0	0.0
		-178.5	3632.6	0.0	0.0	0.0	0.0
		-157.9	3638.1	0.0	0.0	0.0	0.0
		-4000.9	3607.7	0.0	0.0	0.0	0.0
		-3980.3	3613.2	0.0	0.0	0.0	0.0
		-4511.1	3584.6	0.0	0.0	0.0	0.0
		-4490.4	3590.1	0.0	0.0	0.0	0.0
		-3958.0	3602.0	0.0	0.0	0.0	0.0
		-3937.4	3607.4	0.0	0.0	0.0	0.0
		-4468.2	3578.9	0.0	0.0	0.0	0.0
		-4447.5	3584.4	0.0	0.0	0.0	0.0
Nodo	123	SX	SY	SZ	RX	RY	RZ
		2684.9	5090.4	0.0	0.0	0.0	0.0
		2630.7	5097.7	0.0	0.0	0.0	0.0
		2265.5	5052.4	0.0	0.0	0.0	0.0
		2211.3	5059.7	0.0	0.0	0.0	0.0
		2821.0	5080.9	0.0	0.0	0.0	0.0
		2766.8	5088.2	0.0	0.0	0.0	0.0
		2401.6	5042.9	0.0	0.0	0.0	0.0
		2347.4	5050.2	0.0	0.0	0.0	0.0
		-2513.0	5111.0	0.0	0.0	0.0	0.0
		-2567.3	5118.3	0.0	0.0	0.0	0.0

	-2932.5	5073.0	0.0	0.0	0.0	0.0
	-2986.7	5080.2	0.0	0.0	0.0	0.0
	-2376.9	5101.5	0.0	0.0	0.0	0.0
	-2431.2	5108.7	0.0	0.0	0.0	0.0
	-2796.3	5063.4	0.0	0.0	0.0	0.0
	-2850.6	5070.7	0.0	0.0	0.0	0.0
Nodo 124	SX	SY	SZ	RX	RY	RZ
	4038.5	3350.3	0.0	0.0	0.0	0.0
	3966.2	3356.0	0.0	0.0	0.0	0.0
	3698.2	3337.7	0.0	0.0	0.0	0.0
	3625.9	3343.4	0.0	0.0	0.0	0.0
	4180.2	3349.6	0.0	0.0	0.0	0.0
	4108.0	3355.3	0.0	0.0	0.0	0.0
	3840.0	3337.0	0.0	0.0	0.0	0.0
	3767.7	3342.7	0.0	0.0	0.0	0.0
	-469.7	3467.6	0.0	0.0	0.0	0.0
	-542.0	3473.3	0.0	0.0	0.0	0.0
	-810.0	3455.0	0.0	0.0	0.0	0.0
	-882.2	3460.7	0.0	0.0	0.0	0.0
	-327.9	3466.9	0.0	0.0	0.0	0.0
	-400.2	3472.6	0.0	0.0	0.0	0.0
	-668.2	3454.3	0.0	0.0	0.0	0.0
	-740.5	3460.0	0.0	0.0	0.0	0.0
Nodo 125	SX	SY	SZ	RX	RY	RZ
	2500.0	4445.6	0.0	0.0	0.0	0.0
	2362.7	4653.6	0.0	0.0	0.0	0.0
	2024.1	3671.7	0.0	0.0	0.0	0.0
	1886.8	3879.6	0.0	0.0	0.0	0.0
	2720.2	4219.7	0.0	0.0	0.0	0.0
	2582.9	4427.6	0.0	0.0	0.0	0.0
	2244.3	3445.7	0.0	0.0	0.0	0.0
	2107.0	3653.7	0.0	0.0	0.0	0.0
	-3050.1	5020.9	0.0	0.0	0.0	0.0
	-3187.4	5228.8	0.0	0.0	0.0	0.0
	-3526.0	4247.0	0.0	0.0	0.0	0.0
	-3663.3	4454.9	0.0	0.0	0.0	0.0
	-2829.9	4794.9	0.0	0.0	0.0	0.0
	-2967.2	5002.8	0.0	0.0	0.0	0.0
	-3305.8	4021.0	0.0	0.0	0.0	0.0
	-3443.1	4228.9	0.0	0.0	0.0	0.0
Nodo 126	SX	SY	SZ	RX	RY	RZ
	-467.9	3454.5	0.0	0.0	0.0	0.0
	-587.8	3463.4	0.0	0.0	0.0	0.0
	-882.5	3444.4	0.0	0.0	0.0	0.0
	-1002.5	3453.2	0.0	0.0	0.0	0.0
	-268.6	3449.3	0.0	0.0	0.0	0.0
	-388.6	3458.2	0.0	0.0	0.0	0.0
	-683.2	3439.1	0.0	0.0	0.0	0.0
	-803.2	3448.0	0.0	0.0	0.0	0.0
	-4420.7	3427.3	0.0	0.0	0.0	0.0
	-4540.7	3436.1	0.0	0.0	0.0	0.0
	-4835.4	3417.1	0.0	0.0	0.0	0.0
	-4955.3	3426.0	0.0	0.0	0.0	0.0
	-4221.5	3422.0	0.0	0.0	0.0	0.0
	-4341.4	3430.9	0.0	0.0	0.0	0.0
	-4636.1	3411.8	0.0	0.0	0.0	0.0
	-4756.1	3420.7	0.0	0.0	0.0	0.0
Nodo 127	SX	SY	SZ	RX	RY	RZ
	752.9	5148.9	0.0	0.0	0.0	0.0
	490.9	5169.6	0.0	0.0	0.0	0.0
	1594.8	5068.9	0.0	0.0	0.0	0.0
	1332.9	5089.6	0.0	0.0	0.0	0.0
	1132.3	5123.0	0.0	0.0	0.0	0.0
	870.4	5143.8	0.0	0.0	0.0	0.0
	1974.3	5043.0	0.0	0.0	0.0	0.0
	1712.3	5063.7	0.0	0.0	0.0	0.0
	-3629.9	5176.8	0.0	0.0	0.0	0.0
	-3891.9	5197.6	0.0	0.0	0.0	0.0
	-2788.0	5096.8	0.0	0.0	0.0	0.0
	-3049.9	5117.5	0.0	0.0	0.0	0.0
	-3250.5	5151.0	0.0	0.0	0.0	0.0
	-3512.4	5171.7	0.0	0.0	0.0	0.0
	-2408.5	5071.0	0.0	0.0	0.0	0.0
	-2670.5	5091.7	0.0	0.0	0.0	0.0
Nodo 128	SX	SY	SZ	RX	RY	RZ
	1667.0	3691.6	0.0	0.0	0.0	0.0
	1389.0	3734.6	0.0	0.0	0.0	0.0
	2627.1	3543.2	0.0	0.0	0.0	0.0
	2349.1	3586.2	0.0	0.0	0.0	0.0
	2048.4	3644.3	0.0	0.0	0.0	0.0
	1770.4	3687.3	0.0	0.0	0.0	0.0
	3008.5	3495.9	0.0	0.0	0.0	0.0
	2730.6	3538.9	0.0	0.0	0.0	0.0

		-571.8	3755.4	0.0	0.0	0.0	0.0
		-849.8	3798.4	0.0	0.0	0.0	0.0
		388.3	3607.0	0.0	0.0	0.0	0.0
		110.3	3650.0	0.0	0.0	0.0	0.0
		-190.4	3708.1	0.0	0.0	0.0	0.0
		-468.4	3751.0	0.0	0.0	0.0	0.0
		769.7	3559.7	0.0	0.0	0.0	0.0
		491.7	3602.7	0.0	0.0	0.0	0.0
Nodo	129	SX	SY	SZ	RX	RY	RZ
		407.3	4227.9	0.0	0.0	0.0	0.0
		180.0	4435.6	0.0	0.0	0.0	0.0
		1175.5	3560.4	0.0	0.0	0.0	0.0
		948.2	3768.1	0.0	0.0	0.0	0.0
		725.6	4002.9	0.0	0.0	0.0	0.0
		498.3	4210.6	0.0	0.0	0.0	0.0
		1493.8	3335.4	0.0	0.0	0.0	0.0
		1266.6	3543.1	0.0	0.0	0.0	0.0
		-550.5	5293.1	0.0	0.0	0.0	0.0
		-777.7	5500.8	0.0	0.0	0.0	0.0
		217.8	4625.7	0.0	0.0	0.0	0.0
		-9.5	4833.4	0.0	0.0	0.0	0.0
		-232.1	5068.2	0.0	0.0	0.0	0.0
		-459.4	5275.8	0.0	0.0	0.0	0.0
		536.1	4400.7	0.0	0.0	0.0	0.0
		308.8	4608.4	0.0	0.0	0.0	0.0
Nodo	130	SX	SY	SZ	RX	RY	RZ
		-2915.5	3479.8	0.0	0.0	0.0	0.0
		-3010.0	3518.5	0.0	0.0	0.0	0.0
		-2457.8	3357.5	0.0	0.0	0.0	0.0
		-2552.2	3396.2	0.0	0.0	0.0	0.0
		-2765.4	3436.8	0.0	0.0	0.0	0.0
		-2859.8	3475.4	0.0	0.0	0.0	0.0
		-2307.6	3314.4	0.0	0.0	0.0	0.0
		-2402.1	3353.1	0.0	0.0	0.0	0.0
		1462.6	3455.7	0.0	0.0	0.0	0.0
		1368.2	3494.4	0.0	0.0	0.0	0.0
		1920.4	3333.4	0.0	0.0	0.0	0.0
		1825.9	3372.0	0.0	0.0	0.0	0.0
		1612.7	3412.6	0.0	0.0	0.0	0.0
		1518.3	3451.3	0.0	0.0	0.0	0.0
		2070.5	3290.3	0.0	0.0	0.0	0.0
		1976.1	3329.0	0.0	0.0	0.0	0.0
Nodo	131	SX	SY	SZ	RX	RY	RZ
		-3457.3	2673.5	0.0	0.0	0.0	0.0
		-3624.3	2666.8	0.0	0.0	0.0	0.0
		-2544.0	2706.7	0.0	0.0	0.0	0.0
		-2711.0	2700.0	0.0	0.0	0.0	0.0
		-3218.9	2678.2	0.0	0.0	0.0	0.0
		-3385.9	2671.5	0.0	0.0	0.0	0.0
		-2305.5	2711.4	0.0	0.0	0.0	0.0
		-2472.5	2704.7	0.0	0.0	0.0	0.0
		3632.9	3135.8	0.0	0.0	0.0	0.0
		3465.9	3129.0	0.0	0.0	0.0	0.0
		4546.3	3168.9	0.0	0.0	0.0	0.0
		4379.3	3162.2	0.0	0.0	0.0	0.0
		3871.4	3140.4	0.0	0.0	0.0	0.0
		3704.4	3133.7	0.0	0.0	0.0	0.0
		4784.7	3173.6	0.0	0.0	0.0	0.0
		4617.7	3166.9	0.0	0.0	0.0	0.0
Nodo	132	SX	SY	SZ	RX	RY	RZ
		-3019.9	2982.3	0.0	0.0	0.0	0.0
		-3101.1	2886.1	0.0	0.0	0.0	0.0
		-2631.5	3413.1	0.0	0.0	0.0	0.0
		-2712.6	3316.9	0.0	0.0	0.0	0.0
		-2912.4	3089.1	0.0	0.0	0.0	0.0
		-2993.6	2992.9	0.0	0.0	0.0	0.0
		-2523.9	3519.9	0.0	0.0	0.0	0.0
		-2605.1	3423.7	0.0	0.0	0.0	0.0
		205.2	3382.6	0.0	0.0	0.0	0.0
		124.0	3286.4	0.0	0.0	0.0	0.0
		593.7	3813.4	0.0	0.0	0.0	0.0
		512.5	3717.2	0.0	0.0	0.0	0.0
		312.7	3489.4	0.0	0.0	0.0	0.0
		231.6	3393.2	0.0	0.0	0.0	0.0
		701.2	3920.2	0.0	0.0	0.0	0.0
		620.0	3824.0	0.0	0.0	0.0	0.0
Nodo	133	SX	SY	SZ	RX	RY	RZ
		-3044.5	-472.1	0.0	0.0	0.0	0.0
		-2993.4	-518.2	0.0	0.0	0.0	0.0
		-2750.5	-1245.4	0.0	0.0	0.0	0.0
		-2699.5	-1291.5	0.0	0.0	0.0	0.0
		-3123.2	-415.4	0.0	0.0	0.0	0.0
		-3072.1	-461.5	0.0	0.0	0.0	0.0

		-2829.2	-1188.7	0.0	0.0	0.0	0.0
		-2778.1	-1234.8	0.0	0.0	0.0	0.0
		-2590.8	-1096.8	0.0	0.0	0.0	0.0
		-2539.7	-1142.9	0.0	0.0	0.0	0.0
		-2296.8	-1870.1	0.0	0.0	0.0	0.0
		-2245.7	-1916.2	0.0	0.0	0.0	0.0
		-2669.4	-1040.1	0.0	0.0	0.0	0.0
		-2618.4	-1086.2	0.0	0.0	0.0	0.0
		-2375.5	-1813.3	0.0	0.0	0.0	0.0
		-2324.4	-1859.5	0.0	0.0	0.0	0.0
Nodo	134	SX	SY	SZ	RX	RY	RZ
		2930.8	499.6	0.0	0.0	0.0	0.0
		2941.3	533.4	0.0	0.0	0.0	0.0
		2847.1	-128.3	0.0	0.0	0.0	0.0
		2857.7	-94.5	0.0	0.0	0.0	0.0
		2945.1	470.2	0.0	0.0	0.0	0.0
		2955.6	504.0	0.0	0.0	0.0	0.0
		2861.4	-157.7	0.0	0.0	0.0	0.0
		2872.0	-123.9	0.0	0.0	0.0	0.0
		3286.8	1189.5	0.0	0.0	0.0	0.0
		3297.4	1223.4	0.0	0.0	0.0	0.0
		3203.1	561.6	0.0	0.0	0.0	0.0
		3213.7	595.5	0.0	0.0	0.0	0.0
		3301.1	1160.1	0.0	0.0	0.0	0.0
		3311.7	1194.0	0.0	0.0	0.0	0.0
		3217.4	532.2	0.0	0.0	0.0	0.0
		3228.0	566.0	0.0	0.0	0.0	0.0
Nodo	135	SX	SY	SZ	RX	RY	RZ
		-4788.6	896.8	0.0	0.0	0.0	0.0
		-4812.4	722.1	0.0	0.0	0.0	0.0
		-5037.5	-1128.9	0.0	0.0	0.0	0.0
		-5061.4	-1303.5	0.0	0.0	0.0	0.0
		-4736.1	1121.5	0.0	0.0	0.0	0.0
		-4760.0	946.9	0.0	0.0	0.0	0.0
		-4985.0	-904.1	0.0	0.0	0.0	0.0
		-5008.9	-1078.8	0.0	0.0	0.0	0.0
		-4925.5	238.1	0.0	0.0	0.0	0.0
		-4949.4	63.4	0.0	0.0	0.0	0.0
		-5174.4	-1787.5	0.0	0.0	0.0	0.0
		-5198.3	-1962.2	0.0	0.0	0.0	0.0
		-4873.1	462.8	0.0	0.0	0.0	0.0
		-4896.9	288.2	0.0	0.0	0.0	0.0
		-5122.0	-1562.8	0.0	0.0	0.0	0.0
		-5145.8	-1737.4	0.0	0.0	0.0	0.0
Nodo	136	SX	SY	SZ	RX	RY	RZ
		4746.2	-1633.4	0.0	0.0	0.0	0.0
		4713.9	-1502.3	0.0	0.0	0.0	0.0
		4629.6	-3064.2	0.0	0.0	0.0	0.0
		4597.3	-2933.1	0.0	0.0	0.0	0.0
		4923.7	-1839.8	0.0	0.0	0.0	0.0
		4891.5	-1708.7	0.0	0.0	0.0	0.0
		4807.2	-3270.7	0.0	0.0	0.0	0.0
		4774.9	-3139.6	0.0	0.0	0.0	0.0
		3553.8	-351.8	0.0	0.0	0.0	0.0
		3521.5	-220.7	0.0	0.0	0.0	0.0
		3437.2	-1782.7	0.0	0.0	0.0	0.0
		3405.0	-1651.6	0.0	0.0	0.0	0.0
		3731.4	-558.2	0.0	0.0	0.0	0.0
		3699.1	-427.1	0.0	0.0	0.0	0.0
		3614.8	-1989.1	0.0	0.0	0.0	0.0
		3582.5	-1858.0	0.0	0.0	0.0	0.0
Nodo	137	SX	SY	SZ	RX	RY	RZ
		-3560.5	2156.3	0.0	0.0	0.0	0.0
		-3603.4	1985.4	0.0	0.0	0.0	0.0
		-3898.4	548.2	0.0	0.0	0.0	0.0
		-3941.2	377.4	0.0	0.0	0.0	0.0
		-3459.2	2371.1	0.0	0.0	0.0	0.0
		-3502.1	2200.3	0.0	0.0	0.0	0.0
		-3797.1	763.1	0.0	0.0	0.0	0.0
		-3839.9	592.3	0.0	0.0	0.0	0.0
		-3947.9	925.2	0.0	0.0	0.0	0.0
		-3990.8	754.4	0.0	0.0	0.0	0.0
		-4285.7	-682.8	0.0	0.0	0.0	0.0
		-4328.6	-853.6	0.0	0.0	0.0	0.0
		-3846.6	1140.1	0.0	0.0	0.0	0.0
		-3889.5	969.3	0.0	0.0	0.0	0.0
		-4184.4	-467.9	0.0	0.0	0.0	0.0
		-4227.3	-638.7	0.0	0.0	0.0	0.0
Nodo	138	SX	SY	SZ	RX	RY	RZ
		3094.4	-753.7	0.0	0.0	0.0	0.0
		3090.4	-668.0	0.0	0.0	0.0	0.0
		3039.3	-1268.4	0.0	0.0	0.0	0.0
		3035.3	-1182.7	0.0	0.0	0.0	0.0

		3134.9	-873.4	0.0	0.0	0.0	0.0
		3130.9	-787.7	0.0	0.0	0.0	0.0
		3079.7	-1388.1	0.0	0.0	0.0	0.0
		3075.7	-1302.4	0.0	0.0	0.0	0.0
		2964.0	250.9	0.0	0.0	0.0	0.0
		2960.0	336.6	0.0	0.0	0.0	0.0
		2908.8	-263.9	0.0	0.0	0.0	0.0
		2904.8	-178.2	0.0	0.0	0.0	0.0
		3004.4	131.1	0.0	0.0	0.0	0.0
		3000.4	216.8	0.0	0.0	0.0	0.0
		2949.2	-383.6	0.0	0.0	0.0	0.0
		2945.2	-297.9	0.0	0.0	0.0	0.0
Nodo	139	SX	SY	SZ	RX	RY	RZ
		-133.6	-380.2	0.0	0.0	0.0	0.0
		-142.7	-394.5	0.0	0.0	0.0	0.0
		-75.4	-126.2	0.0	0.0	0.0	0.0
		-84.6	-140.5	0.0	0.0	0.0	0.0
		-53.1	-354.1	0.0	0.0	0.0	0.0
		-62.3	-368.4	0.0	0.0	0.0	0.0
		5.0	-100.1	0.0	0.0	0.0	0.0
		-4.1	-114.4	0.0	0.0	0.0	0.0
		-410.7	-562.8	0.0	0.0	0.0	0.0
		-419.9	-577.2	0.0	0.0	0.0	0.0
		-352.6	-308.8	0.0	0.0	0.0	0.0
		-361.7	-323.1	0.0	0.0	0.0	0.0
		-330.3	-536.8	0.0	0.0	0.0	0.0
		-339.5	-551.1	0.0	0.0	0.0	0.0
		-272.2	-282.7	0.0	0.0	0.0	0.0
		-281.3	-297.1	0.0	0.0	0.0	0.0
Nodo	140	SX	SY	SZ	RX	RY	RZ
		3647.4	-201.5	0.0	0.0	0.0	0.0
		3664.2	-80.0	0.0	0.0	0.0	0.0
		3542.7	-909.1	0.0	0.0	0.0	0.0
		3559.5	-787.7	0.0	0.0	0.0	0.0
		3633.1	-372.1	0.0	0.0	0.0	0.0
		3649.9	-250.6	0.0	0.0	0.0	0.0
		3528.4	-1079.7	0.0	0.0	0.0	0.0
		3545.1	-958.3	0.0	0.0	0.0	0.0
		3747.1	1136.6	0.0	0.0	0.0	0.0
		3763.9	1258.1	0.0	0.0	0.0	0.0
		3642.4	429.0	0.0	0.0	0.0	0.0
		3659.2	550.4	0.0	0.0	0.0	0.0
		3732.8	966.0	0.0	0.0	0.0	0.0
		3749.6	1087.5	0.0	0.0	0.0	0.0
		3628.1	258.4	0.0	0.0	0.0	0.0
		3644.8	379.9	0.0	0.0	0.0	0.0
Nodo	141	SX	SY	SZ	RX	RY	RZ
		-3903.4	1964.8	0.0	0.0	0.0	0.0
		-3994.3	1773.8	0.0	0.0	0.0	0.0
		-4409.1	285.9	0.0	0.0	0.0	0.0
		-4500.0	94.8	0.0	0.0	0.0	0.0
		-3657.2	2188.4	0.0	0.0	0.0	0.0
		-3748.0	1997.4	0.0	0.0	0.0	0.0
		-4162.9	509.5	0.0	0.0	0.0	0.0
		-4253.8	318.4	0.0	0.0	0.0	0.0
		-5224.8	753.1	0.0	0.0	0.0	0.0
		-5315.7	562.1	0.0	0.0	0.0	0.0
		-5730.5	-925.8	0.0	0.0	0.0	0.0
		-5821.4	-1116.9	0.0	0.0	0.0	0.0
		-4978.5	976.7	0.0	0.0	0.0	0.0
		-5069.4	785.6	0.0	0.0	0.0	0.0
		-5484.2	-702.2	0.0	0.0	0.0	0.0
		-5575.1	-893.3	0.0	0.0	0.0	0.0
Nodo	142	SX	SY	SZ	RX	RY	RZ
		2255.9	1141.9	0.0	0.0	0.0	0.0
		2286.4	1254.2	0.0	0.0	0.0	0.0
		2170.5	759.5	0.0	0.0	0.0	0.0
		2201.1	871.7	0.0	0.0	0.0	0.0
		2204.5	984.4	0.0	0.0	0.0	0.0
		2235.1	1096.7	0.0	0.0	0.0	0.0
		2119.2	602.0	0.0	0.0	0.0	0.0
		2149.8	714.2	0.0	0.0	0.0	0.0
		2537.1	2769.2	0.0	0.0	0.0	0.0
		2567.6	2881.4	0.0	0.0	0.0	0.0
		2451.7	2386.7	0.0	0.0	0.0	0.0
		2482.3	2499.0	0.0	0.0	0.0	0.0
		2485.8	2611.7	0.0	0.0	0.0	0.0
		2516.3	2723.9	0.0	0.0	0.0	0.0
		2400.4	2229.2	0.0	0.0	0.0	0.0
		2431.0	2341.5	0.0	0.0	0.0	0.0
Nodo	143	SX	SY	SZ	RX	RY	RZ
		-2671.6	817.4	0.0	0.0	0.0	0.0
		-2697.4	754.6	0.0	0.0	0.0	0.0



		-2801.5	395.7	0.0	0.0	0.0	0.0
		-2827.2	332.8	0.0	0.0	0.0	0.0
		-2615.0	897.5	0.0	0.0	0.0	0.0
		-2640.7	834.7	0.0	0.0	0.0	0.0
		-2744.8	475.8	0.0	0.0	0.0	0.0
		-2770.6	412.9	0.0	0.0	0.0	0.0
		-2788.6	581.8	0.0	0.0	0.0	0.0
		-2814.4	519.0	0.0	0.0	0.0	0.0
		-2918.5	160.1	0.0	0.0	0.0	0.0
		-2944.2	97.3	0.0	0.0	0.0	0.0
		-2732.0	661.9	0.0	0.0	0.0	0.0
		-2757.7	599.1	0.0	0.0	0.0	0.0
		-2861.8	240.2	0.0	0.0	0.0	0.0
		-2887.5	177.4	0.0	0.0	0.0	0.0
Nodo	144	SX	SY	SZ	RX	RY	RZ
		494.7	25.2	0.0	0.0	0.0	0.0
		487.5	105.3	0.0	0.0	0.0	0.0
		958.7	-503.6	0.0	0.0	0.0	0.0
		951.5	-423.5	0.0	0.0	0.0	0.0
		505.3	-95.0	0.0	0.0	0.0	0.0
		498.0	-14.8	0.0	0.0	0.0	0.0
		969.2	-623.8	0.0	0.0	0.0	0.0
		962.0	-543.7	0.0	0.0	0.0	0.0
		602.9	604.2	0.0	0.0	0.0	0.0
		595.7	684.3	0.0	0.0	0.0	0.0
		1066.9	75.4	0.0	0.0	0.0	0.0
		1059.6	155.5	0.0	0.0	0.0	0.0
		613.4	484.0	0.0	0.0	0.0	0.0
		606.2	564.2	0.0	0.0	0.0	0.0
		1077.4	-44.8	0.0	0.0	0.0	0.0
		1070.2	35.4	0.0	0.0	0.0	0.0
Nodo	145	SX	SY	SZ	RX	RY	RZ
		-3185.6	1637.4	0.0	0.0	0.0	0.0
		-3209.3	1533.2	0.0	0.0	0.0	0.0
		-3318.3	1133.4	0.0	0.0	0.0	0.0
		-3342.0	1029.2	0.0	0.0	0.0	0.0
		-3146.8	1780.8	0.0	0.0	0.0	0.0
		-3170.5	1676.6	0.0	0.0	0.0	0.0
		-3279.5	1276.8	0.0	0.0	0.0	0.0
		-3303.2	1172.6	0.0	0.0	0.0	0.0
		-3371.9	889.5	0.0	0.0	0.0	0.0
		-3395.6	785.3	0.0	0.0	0.0	0.0
		-3504.5	385.5	0.0	0.0	0.0	0.0
		-3528.3	281.3	0.0	0.0	0.0	0.0
		-3333.1	1032.9	0.0	0.0	0.0	0.0
		-3356.8	928.7	0.0	0.0	0.0	0.0
		-3465.7	528.9	0.0	0.0	0.0	0.0
		-3489.4	424.7	0.0	0.0	0.0	0.0
Nodo	146	SX	SY	SZ	RX	RY	RZ
		1127.9	3566.9	0.0	0.0	0.0	0.0
		1145.4	3566.1	0.0	0.0	0.0	0.0
		2009.4	3431.9	0.0	0.0	0.0	0.0
		2026.9	3431.0	0.0	0.0	0.0	0.0
		1164.9	3547.1	0.0	0.0	0.0	0.0
		1182.4	3546.3	0.0	0.0	0.0	0.0
		2046.4	3412.0	0.0	0.0	0.0	0.0
		2063.9	3411.2	0.0	0.0	0.0	0.0
		1714.2	3452.1	0.0	0.0	0.0	0.0
		1731.7	3451.3	0.0	0.0	0.0	0.0
		2595.7	3317.0	0.0	0.0	0.0	0.0
		2613.2	3316.2	0.0	0.0	0.0	0.0
		1751.2	3432.3	0.0	0.0	0.0	0.0
		1768.7	3431.5	0.0	0.0	0.0	0.0
		2632.7	3297.2	0.0	0.0	0.0	0.0
		2650.2	3296.4	0.0	0.0	0.0	0.0
Nodo	147	SX	SY	SZ	RX	RY	RZ
		1162.7	5511.8	0.0	0.0	0.0	0.0
		969.8	5550.8	0.0	0.0	0.0	0.0
		2096.8	5313.2	0.0	0.0	0.0	0.0
		1903.9	5352.2	0.0	0.0	0.0	0.0
		1497.2	5450.0	0.0	0.0	0.0	0.0
		1304.3	5489.0	0.0	0.0	0.0	0.0
		2431.3	5251.4	0.0	0.0	0.0	0.0
		2238.4	5290.4	0.0	0.0	0.0	0.0
		-1467.8	6036.5	0.0	0.0	0.0	0.0
		-1660.8	6075.5	0.0	0.0	0.0	0.0
		-533.7	5837.8	0.0	0.0	0.0	0.0
		-726.7	5876.9	0.0	0.0	0.0	0.0
		-1133.3	5974.7	0.0	0.0	0.0	0.0
		-1326.3	6013.7	0.0	0.0	0.0	0.0
		-199.2	5776.1	0.0	0.0	0.0	0.0
		-392.2	5815.1	0.0	0.0	0.0	0.0
Nodo	148	SX	SY	SZ	RX	RY	RZ

	-431.8	4509.5	0.0	0.0	0.0	0.0
	-572.0	4532.4	0.0	0.0	0.0	0.0
	90.4	4362.4	0.0	0.0	0.0	0.0
	-49.9	4385.3	0.0	0.0	0.0	0.0
	-159.7	4471.0	0.0	0.0	0.0	0.0
	-300.0	4493.9	0.0	0.0	0.0	0.0
	362.5	4323.9	0.0	0.0	0.0	0.0
	222.2	4346.7	0.0	0.0	0.0	0.0
	-2611.3	4861.0	0.0	0.0	0.0	0.0
	-2751.6	4883.9	0.0	0.0	0.0	0.0
	-2089.2	4713.9	0.0	0.0	0.0	0.0
	-2229.4	4736.8	0.0	0.0	0.0	0.0
	-2339.3	4822.5	0.0	0.0	0.0	0.0
	-2479.5	4845.4	0.0	0.0	0.0	0.0
	-1817.1	4675.4	0.0	0.0	0.0	0.0
	-1957.4	4698.2	0.0	0.0	0.0	0.0
Nodo 149	SX	SY	SZ	RX	RY	RZ
	-1577.8	2184.1	0.0	0.0	0.0	0.0
	-1588.6	2113.3	0.0	0.0	0.0	0.0
	-1644.7	2405.8	0.0	0.0	0.0	0.0
	-1655.5	2335.0	0.0	0.0	0.0	0.0
	-1565.3	2288.6	0.0	0.0	0.0	0.0
	-1576.1	2217.8	0.0	0.0	0.0	0.0
	-1632.2	2510.2	0.0	0.0	0.0	0.0
	-1643.0	2439.5	0.0	0.0	0.0	0.0
	-1751.3	1510.4	0.0	0.0	0.0	0.0
	-1762.1	1439.6	0.0	0.0	0.0	0.0
	-1818.2	1732.1	0.0	0.0	0.0	0.0
	-1829.0	1661.3	0.0	0.0	0.0	0.0
	-1738.8	1614.9	0.0	0.0	0.0	0.0
	-1749.6	1544.1	0.0	0.0	0.0	0.0
	-1805.7	1836.6	0.0	0.0	0.0	0.0
	-1816.5	1765.8	0.0	0.0	0.0	0.0
Nodo 150	SX	SY	SZ	RX	RY	RZ
	781.5	4863.9	0.0	0.0	0.0	0.0
	548.0	4880.4	0.0	0.0	0.0	0.0
	1482.8	4669.2	0.0	0.0	0.0	0.0
	1249.3	4685.8	0.0	0.0	0.0	0.0
	1173.6	4839.9	0.0	0.0	0.0	0.0
	940.1	4856.4	0.0	0.0	0.0	0.0
	1874.9	4645.2	0.0	0.0	0.0	0.0
	1641.4	4661.7	0.0	0.0	0.0	0.0
	-2783.7	5203.8	0.0	0.0	0.0	0.0
	-3017.2	5220.3	0.0	0.0	0.0	0.0
	-2082.4	5009.1	0.0	0.0	0.0	0.0
	-2315.9	5025.6	0.0	0.0	0.0	0.0
	-2391.6	5179.7	0.0	0.0	0.0	0.0
	-2625.1	5196.2	0.0	0.0	0.0	0.0
	-1690.3	4985.0	0.0	0.0	0.0	0.0
	-1923.8	5001.6	0.0	0.0	0.0	0.0
Nodo 151	SX	SY	SZ	RX	RY	RZ
	625.6	3677.4	0.0	0.0	0.0	0.0
	541.7	3684.6	0.0	0.0	0.0	0.0
	322.9	3636.1	0.0	0.0	0.0	0.0
	238.9	3643.3	0.0	0.0	0.0	0.0
	809.2	3653.2	0.0	0.0	0.0	0.0
	725.2	3660.4	0.0	0.0	0.0	0.0
	506.4	3612.0	0.0	0.0	0.0	0.0
	422.4	3619.2	0.0	0.0	0.0	0.0
	-736.5	3897.6	0.0	0.0	0.0	0.0
	-820.5	3904.8	0.0	0.0	0.0	0.0
	-1039.3	3856.4	0.0	0.0	0.0	0.0
	-1123.3	3863.5	0.0	0.0	0.0	0.0
	-553.0	3873.5	0.0	0.0	0.0	0.0
	-637.0	3880.7	0.0	0.0	0.0	0.0
	-855.8	3832.2	0.0	0.0	0.0	0.0
	-939.8	3839.4	0.0	0.0	0.0	0.0
Nodo 152	SX	SY	SZ	RX	RY	RZ
	543.5	4794.8	0.0	0.0	0.0	0.0
	415.8	4817.8	0.0	0.0	0.0	0.0
	-26.8	4900.3	0.0	0.0	0.0	0.0
	-154.6	4923.3	0.0	0.0	0.0	0.0
	776.1	4757.1	0.0	0.0	0.0	0.0
	648.4	4780.1	0.0	0.0	0.0	0.0
	205.7	4862.6	0.0	0.0	0.0	0.0
	78.0	4885.6	0.0	0.0	0.0	0.0
	-1162.4	5118.1	0.0	0.0	0.0	0.0
	-1290.2	5141.2	0.0	0.0	0.0	0.0
	-1732.8	5223.7	0.0	0.0	0.0	0.0
	-1860.6	5246.7	0.0	0.0	0.0	0.0
	-929.8	5080.4	0.0	0.0	0.0	0.0
	-1057.6	5103.4	0.0	0.0	0.0	0.0
	-1500.2	5185.9	0.0	0.0	0.0	0.0
	-1628.0	5209.0	0.0	0.0	0.0	0.0

Nodo	153	SX	SY	SZ	RX	RY	RZ
		-2429.9	3633.4	0.0	0.0	0.0	0.0
		-2376.5	3625.6	0.0	0.0	0.0	0.0
		-3308.7	3877.8	0.0	0.0	0.0	0.0
		-3255.2	3870.1	0.0	0.0	0.0	0.0
		-2458.6	3646.8	0.0	0.0	0.0	0.0
		-2405.2	3639.0	0.0	0.0	0.0	0.0
		-3337.4	3891.2	0.0	0.0	0.0	0.0
		-3283.9	3883.5	0.0	0.0	0.0	0.0
		-1354.7	3462.7	0.0	0.0	0.0	0.0
		-1301.3	3454.9	0.0	0.0	0.0	0.0
		-2233.5	3707.1	0.0	0.0	0.0	0.0
		-2180.0	3699.3	0.0	0.0	0.0	0.0
		-1383.4	3476.1	0.0	0.0	0.0	0.0
		-1330.0	3468.3	0.0	0.0	0.0	0.0
		-2262.2	3720.5	0.0	0.0	0.0	0.0
		-2208.7	3712.7	0.0	0.0	0.0	0.0

Nodo	154	SX	SY	SZ	RX	RY	RZ
		-1060.7	634.6	0.0	0.0	0.0	0.0
		-1098.0	578.7	0.0	0.0	0.0	0.0
		-1588.3	423.0	0.0	0.0	0.0	0.0
		-1625.6	367.2	0.0	0.0	0.0	0.0
		-1019.6	704.0	0.0	0.0	0.0	0.0
		-1056.9	648.2	0.0	0.0	0.0	0.0
		-1547.2	492.5	0.0	0.0	0.0	0.0
		-1584.5	436.6	0.0	0.0	0.0	0.0
		-1181.6	305.5	0.0	0.0	0.0	0.0
		-1218.9	249.6	0.0	0.0	0.0	0.0
		-1709.1	93.9	0.0	0.0	0.0	0.0
		-1746.5	38.1	0.0	0.0	0.0	0.0
		-1140.5	374.9	0.0	0.0	0.0	0.0
		-1177.8	319.0	0.0	0.0	0.0	0.0
		-1668.0	163.3	0.0	0.0	0.0	0.0
		-1705.4	107.5	0.0	0.0	0.0	0.0

REAZIONI VINCOLARI

CASO DI CARICO : 7 SLU con SISMAY PRINC COMBINAZIONE

N. 6 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.00
2	Peso_proprio_Fondaz	+	1.00
3	Permanente	+	1.00
4	Variabile	+	0.30
7	Variabile_Scale	+	0.60
11	Spinta_terre	+	1.00

N. 2 CASI DI CARICO

5	SISMAY SLU	1.00
4	SISMAX SLU	0.30

1)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.001	+0.30*c004.001		
2)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.001	+0.30*c004.002		
3)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.001	+0.30*c004.003		
4)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.001	+0.30*c004.004		
5)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.002	+0.30*c004.001		
6)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.002	+0.30*c004.002		
7)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.002	+0.30*c004.003		
8)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.002	+0.30*c004.004		
9)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.003	+0.30*c004.001		
10)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.003	+0.30*c004.002		
11)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.003	+0.30*c004.003		
12)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.003	+0.30*c004.004		
13)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.004	+0.30*c004.001		
14)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.004	+0.30*c004.002		
15)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.004	+0.30*c004.003		
16)	+1.00*c001	+1.00*c002	+1.00*c003	+0.30*c004	+0.60*c007
)	+1.00*c011	+1.00*c005.004	+0.30*c004.004		

Unità di misura: SX,SY,SZ [daN];RX,RY,RZ [daNcm]

Coefficiente multiplicativo: 1.000000

Nodo	1	SX	SY	SZ	RX	RY	RZ
		-337.8	-220.8	0.0	0.0	0.0	0.0
		-362.9	-168.5	0.0	0.0	0.0	0.0
		-132.5	-137.8	0.0	0.0	0.0	0.0
		-157.7	-85.5	0.0	0.0	0.0	0.0
		-152.4	-618.4	0.0	0.0	0.0	0.0
		-177.6	-566.1	0.0	0.0	0.0	0.0
		52.8	-535.4	0.0	0.0	0.0	0.0
		27.6	-483.1	0.0	0.0	0.0	0.0
		1809.3	-1932.0	0.0	0.0	0.0	0.0
		1784.1	-1879.7	0.0	0.0	0.0	0.0
		2014.5	-1849.0	0.0	0.0	0.0	0.0
		1989.3	-1796.7	0.0	0.0	0.0	0.0
		1994.6	-2329.5	0.0	0.0	0.0	0.0
		1969.4	-2277.3	0.0	0.0	0.0	0.0
		2199.8	-2246.6	0.0	0.0	0.0	0.0
		2174.6	-2194.3	0.0	0.0	0.0	0.0

Nodo	2	SX	SY	SZ	RX	RY	RZ
		-1696.1	-4290.6	0.0	0.0	0.0	0.0
		-1733.3	-4292.5	0.0	0.0	0.0	0.0
		-1329.4	-4239.2	0.0	0.0	0.0	0.0
		-1366.7	-4241.1	0.0	0.0	0.0	0.0
		-1566.7	-4256.4	0.0	0.0	0.0	0.0
		-1604.0	-4258.3	0.0	0.0	0.0	0.0
		-1200.1	-4205.0	0.0	0.0	0.0	0.0
		-1237.3	-4206.9	0.0	0.0	0.0	0.0
		1726.7	-3828.0	0.0	0.0	0.0	0.0
		1689.5	-3829.9	0.0	0.0	0.0	0.0
		2093.4	-3776.6	0.0	0.0	0.0	0.0
		2056.1	-3778.5	0.0	0.0	0.0	0.0
		1856.0	-3793.9	0.0	0.0	0.0	0.0
		1818.8	-3795.8	0.0	0.0	0.0	0.0
		2222.7	-3742.5	0.0	0.0	0.0	0.0
		2185.5	-3744.4	0.0	0.0	0.0	0.0

Nodo	3	SX	SY	SZ	RX	RY	RZ
		-1162.2	-4397.1	0.0	0.0	0.0	0.0
		-1237.6	-4382.2	0.0	0.0	0.0	0.0
		-1339.0	-4370.0	0.0	0.0	0.0	0.0
		-1414.5	-4355.2	0.0	0.0	0.0	0.0
		-747.8	-4549.8	0.0	0.0	0.0	0.0
		-823.2	-4534.9	0.0	0.0	0.0	0.0
		-924.6	-4522.7	0.0	0.0	0.0	0.0
		-1000.1	-4507.9	0.0	0.0	0.0	0.0
		1283.1	-5650.3	0.0	0.0	0.0	0.0
		1207.7	-5635.5	0.0	0.0	0.0	0.0
		1106.3	-5623.3	0.0	0.0	0.0	0.0
		1030.9	-5608.5	0.0	0.0	0.0	0.0
		1697.5	-5803.0	0.0	0.0	0.0	0.0
		1622.1	-5788.2	0.0	0.0	0.0	0.0
		1520.7	-5776.0	0.0	0.0	0.0	0.0
		1445.3	-5761.2	0.0	0.0	0.0	0.0

Nodo	4	SX	SY	SZ	RX	RY	RZ
		587.5	-3404.7	0.0	0.0	0.0	0.0
		465.4	-3349.5	0.0	0.0	0.0	0.0
		-215.9	-3244.5	0.0	0.0	0.0	0.0
		-338.0	-3189.3	0.0	0.0	0.0	0.0
		1378.6	-3935.8	0.0	0.0	0.0	0.0
		1256.4	-3880.6	0.0	0.0	0.0	0.0
		575.2	-3775.6	0.0	0.0	0.0	0.0
		453.0	-3720.4	0.0	0.0	0.0	0.0
		-1828.0	-8254.8	0.0	0.0	0.0	0.0
		-1950.1	-8199.6	0.0	0.0	0.0	0.0
		-2631.4	-8094.6	0.0	0.0	0.0	0.0
		-2753.5	-8039.4	0.0	0.0	0.0	0.0
		-1036.9	-8786.0	0.0	0.0	0.0	0.0
		-1159.1	-8730.8	0.0	0.0	0.0	0.0
		-1840.3	-8625.8	0.0	0.0	0.0	0.0
		-1962.5	-8570.6	0.0	0.0	0.0	0.0

Nodo	5	SX	SY	SZ	RX	RY	RZ
		-180.3	-4242.2	0.0	0.0	0.0	0.0
		-257.4	-4227.2	0.0	0.0	0.0	0.0
		-770.0	-4199.9	0.0	0.0	0.0	0.0
		-847.1	-4185.0	0.0	0.0	0.0	0.0
		187.6	-4375.6	0.0	0.0	0.0	0.0
		110.6	-4360.6	0.0	0.0	0.0	0.0
		-402.1	-4333.4	0.0	0.0	0.0	0.0
		-479.1	-4318.4	0.0	0.0	0.0	0.0
		-1666.9	-5537.7	0.0	0.0	0.0	0.0
		-1743.9	-5522.7	0.0	0.0	0.0	0.0
		-2256.6	-5495.5	0.0	0.0	0.0	0.0
		-2333.6	-5480.5	0.0	0.0	0.0	0.0
		-1298.9	-5671.1	0.0	0.0	0.0	0.0

		-1376.0	-5656.2	0.0	0.0	0.0	0.0
		-1888.6	-5628.9	0.0	0.0	0.0	0.0
		-1965.7	-5613.9	0.0	0.0	0.0	0.0
Nodo	6	SX	SY	SZ	RX	RY	RZ
		1235.2	-5955.1	0.0	0.0	0.0	0.0
		1132.9	-5955.3	0.0	0.0	0.0	0.0
		344.8	-5961.9	0.0	0.0	0.0	0.0
		242.5	-5962.1	0.0	0.0	0.0	0.0
		1817.5	-5965.5	0.0	0.0	0.0	0.0
		1715.1	-5965.6	0.0	0.0	0.0	0.0
		927.1	-5972.2	0.0	0.0	0.0	0.0
		824.7	-5972.4	0.0	0.0	0.0	0.0
		-1541.3	-6116.1	0.0	0.0	0.0	0.0
		-1643.7	-6116.3	0.0	0.0	0.0	0.0
		-2431.7	-6122.9	0.0	0.0	0.0	0.0
		-2534.1	-6123.0	0.0	0.0	0.0	0.0
		-959.1	-6126.5	0.0	0.0	0.0	0.0
		-1061.4	-6126.6	0.0	0.0	0.0	0.0
		-1849.5	-6133.2	0.0	0.0	0.0	0.0
		-1951.8	-6133.4	0.0	0.0	0.0	0.0
Nodo	7	SX	SY	SZ	RX	RY	RZ
		2709.1	-3959.9	0.0	0.0	0.0	0.0
		2678.7	-3974.3	0.0	0.0	0.0	0.0
		2297.7	-4015.8	0.0	0.0	0.0	0.0
		2267.3	-4030.3	0.0	0.0	0.0	0.0
		2773.0	-3900.6	0.0	0.0	0.0	0.0
		2742.6	-3915.1	0.0	0.0	0.0	0.0
		2361.6	-3956.5	0.0	0.0	0.0	0.0
		2331.2	-3971.0	0.0	0.0	0.0	0.0
		-371.7	-3361.2	0.0	0.0	0.0	0.0
		-402.1	-3375.7	0.0	0.0	0.0	0.0
		-783.1	-3417.2	0.0	0.0	0.0	0.0
		-813.5	-3431.6	0.0	0.0	0.0	0.0
		-307.9	-3302.0	0.0	0.0	0.0	0.0
		-338.3	-3316.5	0.0	0.0	0.0	0.0
		-719.3	-3357.9	0.0	0.0	0.0	0.0
		-749.7	-3372.4	0.0	0.0	0.0	0.0
Nodo	8	SX	SY	SZ	RX	RY	RZ
		887.1	-615.2	0.0	0.0	0.0	0.0
		882.3	-647.3	0.0	0.0	0.0	0.0
		639.8	-926.3	0.0	0.0	0.0	0.0
		635.0	-958.4	0.0	0.0	0.0	0.0
		999.4	-341.8	0.0	0.0	0.0	0.0
		994.6	-373.9	0.0	0.0	0.0	0.0
		752.1	-652.9	0.0	0.0	0.0	0.0
		747.3	-685.0	0.0	0.0	0.0	0.0
		-742.3	378.0	0.0	0.0	0.0	0.0
		-747.1	345.8	0.0	0.0	0.0	0.0
		-989.5	66.9	0.0	0.0	0.0	0.0
		-994.3	34.7	0.0	0.0	0.0	0.0
		-630.0	651.3	0.0	0.0	0.0	0.0
		-634.7	619.2	0.0	0.0	0.0	0.0
		-877.2	340.2	0.0	0.0	0.0	0.0
		-882.0	308.1	0.0	0.0	0.0	0.0
Nodo	9	SX	SY	SZ	RX	RY	RZ
		-3710.1	-513.7	0.0	0.0	0.0	0.0
		-3709.1	-406.0	0.0	0.0	0.0	0.0
		-3650.4	-302.9	0.0	0.0	0.0	0.0
		-3649.3	-195.2	0.0	0.0	0.0	0.0
		-3690.0	-1386.4	0.0	0.0	0.0	0.0
		-3688.9	-1278.7	0.0	0.0	0.0	0.0
		-3630.3	-1175.6	0.0	0.0	0.0	0.0
		-3629.2	-1067.9	0.0	0.0	0.0	0.0
		-3096.2	-4876.1	0.0	0.0	0.0	0.0
		-3095.2	-4768.4	0.0	0.0	0.0	0.0
		-3036.5	-4665.2	0.0	0.0	0.0	0.0
		-3035.4	-4557.6	0.0	0.0	0.0	0.0
		-3076.1	-5748.8	0.0	0.0	0.0	0.0
		-3075.0	-5641.1	0.0	0.0	0.0	0.0
		-3016.4	-5537.9	0.0	0.0	0.0	0.0
		-3015.3	-5430.3	0.0	0.0	0.0	0.0
Nodo	10	SX	SY	SZ	RX	RY	RZ
		3482.3	-2842.1	0.0	0.0	0.0	0.0
		3488.6	-2884.7	0.0	0.0	0.0	0.0
		3533.2	-3362.9	0.0	0.0	0.0	0.0
		3539.5	-3405.6	0.0	0.0	0.0	0.0
		3391.3	-2525.2	0.0	0.0	0.0	0.0
		3397.6	-2567.9	0.0	0.0	0.0	0.0
		3442.2	-3046.1	0.0	0.0	0.0	0.0
		3448.5	-3088.8	0.0	0.0	0.0	0.0
		2918.8	-1499.2	0.0	0.0	0.0	0.0
		2925.1	-1541.8	0.0	0.0	0.0	0.0
		2969.7	-2020.1	0.0	0.0	0.0	0.0

		2976.0	-2062.7	0.0	0.0	0.0	0.0
		2827.7	-1182.3	0.0	0.0	0.0	0.0
		2834.0	-1225.0	0.0	0.0	0.0	0.0
		2878.6	-1703.2	0.0	0.0	0.0	0.0
		2884.9	-1745.9	0.0	0.0	0.0	0.0
Nodo	11	SX	SY	SZ	RX	RY	RZ
		-5502.6	2590.9	0.0	0.0	0.0	0.0
		-5506.4	2737.6	0.0	0.0	0.0	0.0
		-5524.0	2466.8	0.0	0.0	0.0	0.0
		-5527.9	2613.5	0.0	0.0	0.0	0.0
		-5474.9	1323.5	0.0	0.0	0.0	0.0
		-5478.8	1470.3	0.0	0.0	0.0	0.0
		-5496.4	1199.4	0.0	0.0	0.0	0.0
		-5500.3	1346.1	0.0	0.0	0.0	0.0
		-5385.3	-5284.4	0.0	0.0	0.0	0.0
		-5389.1	-5137.6	0.0	0.0	0.0	0.0
		-5406.7	-5408.5	0.0	0.0	0.0	0.0
		-5410.6	-5261.7	0.0	0.0	0.0	0.0
		-5357.6	-6551.8	0.0	0.0	0.0	0.0
		-5361.5	-6405.0	0.0	0.0	0.0	0.0
		-5379.1	-6675.9	0.0	0.0	0.0	0.0
		-5383.0	-6529.1	0.0	0.0	0.0	0.0
Nodo	12	SX	SY	SZ	RX	RY	RZ
		5442.3	-161.6	0.0	0.0	0.0	0.0
		5428.7	-182.3	0.0	0.0	0.0	0.0
		5419.1	-512.5	0.0	0.0	0.0	0.0
		5405.5	-533.2	0.0	0.0	0.0	0.0
		5449.5	-36.8	0.0	0.0	0.0	0.0
		5435.9	-57.6	0.0	0.0	0.0	0.0
		5426.3	-387.7	0.0	0.0	0.0	0.0
		5412.7	-408.5	0.0	0.0	0.0	0.0
		5360.0	-3105.5	0.0	0.0	0.0	0.0
		5346.3	-3126.2	0.0	0.0	0.0	0.0
		5336.7	-3456.4	0.0	0.0	0.0	0.0
		5323.1	-3477.1	0.0	0.0	0.0	0.0
		5367.2	-2980.7	0.0	0.0	0.0	0.0
		5353.6	-3001.4	0.0	0.0	0.0	0.0
		5344.0	-3331.6	0.0	0.0	0.0	0.0
		5330.4	-3352.4	0.0	0.0	0.0	0.0
Nodo	13	SX	SY	SZ	RX	RY	RZ
		-3977.6	3327.4	0.0	0.0	0.0	0.0
		-3995.5	3451.3	0.0	0.0	0.0	0.0
		-4084.1	2930.4	0.0	0.0	0.0	0.0
		-4101.9	3054.4	0.0	0.0	0.0	0.0
		-3908.6	2213.8	0.0	0.0	0.0	0.0
		-3926.5	2337.8	0.0	0.0	0.0	0.0
		-4015.1	1816.9	0.0	0.0	0.0	0.0
		-4033.0	1940.8	0.0	0.0	0.0	0.0
		-4231.4	-4605.8	0.0	0.0	0.0	0.0
		-4249.3	-4481.8	0.0	0.0	0.0	0.0
		-4337.9	-5002.8	0.0	0.0	0.0	0.0
		-4355.7	-4878.8	0.0	0.0	0.0	0.0
		-4162.4	-5719.3	0.0	0.0	0.0	0.0
		-4180.3	-5595.4	0.0	0.0	0.0	0.0
		-4268.9	-6116.3	0.0	0.0	0.0	0.0
		-4286.8	-5992.3	0.0	0.0	0.0	0.0
Nodo	14	SX	SY	SZ	RX	RY	RZ
		4030.3	-64.7	0.0	0.0	0.0	0.0
		4005.4	-62.6	0.0	0.0	0.0	0.0
		3895.5	-227.8	0.0	0.0	0.0	0.0
		3870.7	-225.6	0.0	0.0	0.0	0.0
		4124.7	-98.3	0.0	0.0	0.0	0.0
		4099.8	-96.1	0.0	0.0	0.0	0.0
		3989.9	-261.3	0.0	0.0	0.0	0.0
		3965.1	-259.1	0.0	0.0	0.0	0.0
		4319.3	-2649.8	0.0	0.0	0.0	0.0
		4294.4	-2647.6	0.0	0.0	0.0	0.0
		4184.6	-2812.8	0.0	0.0	0.0	0.0
		4159.7	-2810.7	0.0	0.0	0.0	0.0
		4413.7	-2683.3	0.0	0.0	0.0	0.0
		4388.8	-2681.1	0.0	0.0	0.0	0.0
		4279.0	-2846.3	0.0	0.0	0.0	0.0
		4254.1	-2844.2	0.0	0.0	0.0	0.0
Nodo	15	SX	SY	SZ	RX	RY	RZ
		-5063.6	6484.7	0.0	0.0	0.0	0.0
		-5161.7	6694.9	0.0	0.0	0.0	0.0
		-5485.9	5643.4	0.0	0.0	0.0	0.0
		-5584.0	5853.5	0.0	0.0	0.0	0.0
		-4644.9	4615.4	0.0	0.0	0.0	0.0
		-4743.0	4825.5	0.0	0.0	0.0	0.0
		-5067.3	3774.0	0.0	0.0	0.0	0.0
		-5165.4	3984.2	0.0	0.0	0.0	0.0
		-3580.5	-7300.0	0.0	0.0	0.0	0.0

		-3678.6	-7089.9	0.0	0.0	0.0	0.0
		-4002.9	-8141.4	0.0	0.0	0.0	0.0
		-4101.0	-7931.2	0.0	0.0	0.0	0.0
		-3161.9	-9169.4	0.0	0.0	0.0	0.0
		-3259.9	-8959.2	0.0	0.0	0.0	0.0
		-3584.2	-10010.7	0.0	0.0	0.0	0.0
		-3682.3	-9800.6	0.0	0.0	0.0	0.0
Nodo	16	SX	SY	SZ	RX	RY	RZ
		-444.8	916.1	0.0	0.0	0.0	0.0
		-500.6	941.8	0.0	0.0	0.0	0.0
		-497.2	1018.4	0.0	0.0	0.0	0.0
		-553.0	1044.1	0.0	0.0	0.0	0.0
		-420.9	668.1	0.0	0.0	0.0	0.0
		-476.7	693.8	0.0	0.0	0.0	0.0
		-473.3	770.4	0.0	0.0	0.0	0.0
		-529.1	796.1	0.0	0.0	0.0	0.0
		-517.1	-1352.7	0.0	0.0	0.0	0.0
		-572.8	-1327.0	0.0	0.0	0.0	0.0
		-569.5	-1250.4	0.0	0.0	0.0	0.0
		-625.2	-1224.7	0.0	0.0	0.0	0.0
		-493.2	-1600.6	0.0	0.0	0.0	0.0
		-549.0	-1575.0	0.0	0.0	0.0	0.0
		-545.6	-1498.3	0.0	0.0	0.0	0.0
		-601.3	-1472.7	0.0	0.0	0.0	0.0
Nodo	17	SX	SY	SZ	RX	RY	RZ
		5684.2	2304.3	0.0	0.0	0.0	0.0
		5607.7	2322.2	0.0	0.0	0.0	0.0
		5123.5	2215.0	0.0	0.0	0.0	0.0
		5047.0	2232.9	0.0	0.0	0.0	0.0
		5954.5	2102.4	0.0	0.0	0.0	0.0
		5878.0	2120.3	0.0	0.0	0.0	0.0
		5393.7	2013.1	0.0	0.0	0.0	0.0
		5317.2	2031.0	0.0	0.0	0.0	0.0
		4744.6	-3922.0	0.0	0.0	0.0	0.0
		4668.1	-3904.1	0.0	0.0	0.0	0.0
		4183.8	-4011.2	0.0	0.0	0.0	0.0
		4107.3	-3993.4	0.0	0.0	0.0	0.0
		5014.8	-4123.9	0.0	0.0	0.0	0.0
		4938.3	-4106.0	0.0	0.0	0.0	0.0
		4454.1	-4213.1	0.0	0.0	0.0	0.0
		4377.6	-4195.3	0.0	0.0	0.0	0.0
Nodo	18	SX	SY	SZ	RX	RY	RZ
		-4477.4	6891.3	0.0	0.0	0.0	0.0
		-4503.1	7106.8	0.0	0.0	0.0	0.0
		-4588.6	5649.3	0.0	0.0	0.0	0.0
		-4614.3	5864.8	0.0	0.0	0.0	0.0
		-4388.5	4977.1	0.0	0.0	0.0	0.0
		-4414.1	5192.6	0.0	0.0	0.0	0.0
		-4499.7	3735.1	0.0	0.0	0.0	0.0
		-4525.3	3950.6	0.0	0.0	0.0	0.0
		-4158.9	-7776.6	0.0	0.0	0.0	0.0
		-4184.6	-7561.0	0.0	0.0	0.0	0.0
		-4270.1	-9018.6	0.0	0.0	0.0	0.0
		-4295.7	-8803.0	0.0	0.0	0.0	0.0
		-4070.0	-9690.8	0.0	0.0	0.0	0.0
		-4095.6	-9475.2	0.0	0.0	0.0	0.0
		-4181.2	-10932.8	0.0	0.0	0.0	0.0
		-4206.8	-10717.2	0.0	0.0	0.0	0.0
Nodo	19	SX	SY	SZ	RX	RY	RZ
		4536.5	2995.5	0.0	0.0	0.0	0.0
		4518.7	3021.4	0.0	0.0	0.0	0.0
		4406.3	2972.5	0.0	0.0	0.0	0.0
		4388.5	2998.4	0.0	0.0	0.0	0.0
		4587.7	2714.0	0.0	0.0	0.0	0.0
		4569.9	2739.9	0.0	0.0	0.0	0.0
		4457.5	2691.0	0.0	0.0	0.0	0.0
		4439.7	2716.9	0.0	0.0	0.0	0.0
		4324.4	-2906.6	0.0	0.0	0.0	0.0
		4306.6	-2880.7	0.0	0.0	0.0	0.0
		4194.2	-2929.6	0.0	0.0	0.0	0.0
		4176.4	-2903.7	0.0	0.0	0.0	0.0
		4375.6	-3188.2	0.0	0.0	0.0	0.0
		4357.8	-3162.3	0.0	0.0	0.0	0.0
		4245.4	-3211.2	0.0	0.0	0.0	0.0
		4227.6	-3185.3	0.0	0.0	0.0	0.0
Nodo	20	SX	SY	SZ	RX	RY	RZ
		-5764.8	9085.6	0.0	0.0	0.0	0.0
		-5772.7	9321.5	0.0	0.0	0.0	0.0
		-5775.5	7268.8	0.0	0.0	0.0	0.0
		-5783.5	7504.7	0.0	0.0	0.0	0.0
		-5753.3	6958.4	0.0	0.0	0.0	0.0
		-5761.3	7194.3	0.0	0.0	0.0	0.0
		-5764.1	5141.6	0.0	0.0	0.0	0.0

		-5772.0	5377.5	0.0	0.0	0.0	0.0
		-5795.4	-7571.2	0.0	0.0	0.0	0.0
		-5803.3	-7335.3	0.0	0.0	0.0	0.0
		-5806.1	-9388.0	0.0	0.0	0.0	0.0
		-5814.1	-9152.1	0.0	0.0	0.0	0.0
		-5783.9	-9698.4	0.0	0.0	0.0	0.0
		-5791.9	-9462.5	0.0	0.0	0.0	0.0
		-5794.6	-11515.2	0.0	0.0	0.0	0.0
		-5802.6	-11279.3	0.0	0.0	0.0	0.0
Nodo	21	SX	SY	SZ	RX	RY	RZ
		5775.5	4928.0	0.0	0.0	0.0	0.0
		5766.3	4961.2	0.0	0.0	0.0	0.0
		5757.8	5080.4	0.0	0.0	0.0	0.0
		5748.7	5113.6	0.0	0.0	0.0	0.0
		5788.8	4590.5	0.0	0.0	0.0	0.0
		5779.6	4623.7	0.0	0.0	0.0	0.0
		5771.1	4743.0	0.0	0.0	0.0	0.0
		5762.0	4776.1	0.0	0.0	0.0	0.0
		5735.2	-2741.4	0.0	0.0	0.0	0.0
		5726.0	-2708.2	0.0	0.0	0.0	0.0
		5717.5	-2589.0	0.0	0.0	0.0	0.0
		5708.3	-2555.8	0.0	0.0	0.0	0.0
		5748.5	-3078.9	0.0	0.0	0.0	0.0
		5739.3	-3045.7	0.0	0.0	0.0	0.0
		5730.8	-2926.5	0.0	0.0	0.0	0.0
		5721.7	-2893.3	0.0	0.0	0.0	0.0
Nodo	22	SX	SY	SZ	RX	RY	RZ
		-3184.9	4457.4	0.0	0.0	0.0	0.0
		-3174.6	4503.3	0.0	0.0	0.0	0.0
		-3022.3	2357.2	0.0	0.0	0.0	0.0
		-3012.0	2403.1	0.0	0.0	0.0	0.0
		-3250.4	3936.6	0.0	0.0	0.0	0.0
		-3240.0	3982.4	0.0	0.0	0.0	0.0
		-3087.7	1836.3	0.0	0.0	0.0	0.0
		-3077.4	1882.2	0.0	0.0	0.0	0.0
		-3554.1	-1739.0	0.0	0.0	0.0	0.0
		-3543.7	-1693.2	0.0	0.0	0.0	0.0
		-3391.4	-3839.2	0.0	0.0	0.0	0.0
		-3381.1	-3793.4	0.0	0.0	0.0	0.0
		-3619.5	-2259.9	0.0	0.0	0.0	0.0
		-3609.1	-2214.0	0.0	0.0	0.0	0.0
		-3456.8	-4360.1	0.0	0.0	0.0	0.0
		-3446.5	-4314.2	0.0	0.0	0.0	0.0
Nodo	23	SX	SY	SZ	RX	RY	RZ
		3396.6	2299.0	0.0	0.0	0.0	0.0
		3397.3	2328.6	0.0	0.0	0.0	0.0
		3469.0	2740.3	0.0	0.0	0.0	0.0
		3469.7	2769.8	0.0	0.0	0.0	0.0
		3402.8	2076.4	0.0	0.0	0.0	0.0
		3403.5	2105.9	0.0	0.0	0.0	0.0
		3475.3	2517.7	0.0	0.0	0.0	0.0
		3475.9	2547.2	0.0	0.0	0.0	0.0
		3745.8	-1082.4	0.0	0.0	0.0	0.0
		3746.5	-1052.8	0.0	0.0	0.0	0.0
		3818.2	-641.1	0.0	0.0	0.0	0.0
		3818.9	-611.6	0.0	0.0	0.0	0.0
		3752.0	-1305.0	0.0	0.0	0.0	0.0
		3752.7	-1275.5	0.0	0.0	0.0	0.0
		3824.5	-863.7	0.0	0.0	0.0	0.0
		3825.1	-834.2	0.0	0.0	0.0	0.0
Nodo	24	SX	SY	SZ	RX	RY	RZ
		-2327.1	-1343.0	0.0	0.0	0.0	0.0
		-2364.2	-1370.6	0.0	0.0	0.0	0.0
		-2839.9	-649.9	0.0	0.0	0.0	0.0
		-2877.0	-677.5	0.0	0.0	0.0	0.0
		-1986.0	-1073.9	0.0	0.0	0.0	0.0
		-2023.1	-1101.5	0.0	0.0	0.0	0.0
		-2498.8	-380.8	0.0	0.0	0.0	0.0
		-2535.9	-408.4	0.0	0.0	0.0	0.0
		-1317.0	137.9	0.0	0.0	0.0	0.0
		-1354.1	110.3	0.0	0.0	0.0	0.0
		-1829.8	831.0	0.0	0.0	0.0	0.0
		-1866.9	803.4	0.0	0.0	0.0	0.0
		-975.9	407.0	0.0	0.0	0.0	0.0
		-1013.0	379.4	0.0	0.0	0.0	0.0
		-1488.7	1100.1	0.0	0.0	0.0	0.0
		-1525.8	1072.5	0.0	0.0	0.0	0.0
Nodo	25	SX	SY	SZ	RX	RY	RZ
		-4881.9	-3673.5	0.0	0.0	0.0	0.0
		-4962.6	-3681.5	0.0	0.0	0.0	0.0
		-6266.4	-3498.1	0.0	0.0	0.0	0.0
		-6347.0	-3506.1	0.0	0.0	0.0	0.0
		-4195.0	-3591.5	0.0	0.0	0.0	0.0



		-4275.6	-3599.5	0.0	0.0	0.0	0.0
		-5579.4	-3416.1	0.0	0.0	0.0	0.0
		-5660.1	-3424.1	0.0	0.0	0.0	0.0
		-2724.9	-3360.5	0.0	0.0	0.0	0.0
		-2805.5	-3368.5	0.0	0.0	0.0	0.0
		-4109.3	-3185.2	0.0	0.0	0.0	0.0
		-4190.0	-3193.2	0.0	0.0	0.0	0.0
		-2037.9	-3278.5	0.0	0.0	0.0	0.0
		-2118.6	-3286.5	0.0	0.0	0.0	0.0
		-3422.4	-3103.1	0.0	0.0	0.0	0.0
		-3503.0	-3111.1	0.0	0.0	0.0	0.0
Nodo	26	SX	SY	SZ	RX	RY	RZ
		490.4	-5565.2	0.0	0.0	0.0	0.0
		408.4	-5561.8	0.0	0.0	0.0	0.0
		-1990.4	-5548.5	0.0	0.0	0.0	0.0
		-2072.4	-5545.0	0.0	0.0	0.0	0.0
		1136.9	-5595.7	0.0	0.0	0.0	0.0
		1054.8	-5592.2	0.0	0.0	0.0	0.0
		-1343.9	-5578.9	0.0	0.0	0.0	0.0
		-1426.0	-5575.5	0.0	0.0	0.0	0.0
		-1374.4	-5704.1	0.0	0.0	0.0	0.0
		-1456.4	-5700.7	0.0	0.0	0.0	0.0
		-3855.2	-5687.4	0.0	0.0	0.0	0.0
		-3937.2	-5684.0	0.0	0.0	0.0	0.0
		-727.9	-5734.6	0.0	0.0	0.0	0.0
		-810.0	-5731.1	0.0	0.0	0.0	0.0
		-3208.7	-5717.8	0.0	0.0	0.0	0.0
		-3290.8	-5714.4	0.0	0.0	0.0	0.0
Nodo	27	SX	SY	SZ	RX	RY	RZ
		2237.4	-3888.8	0.0	0.0	0.0	0.0
		2174.6	-3877.8	0.0	0.0	0.0	0.0
		-802.8	-3948.0	0.0	0.0	0.0	0.0
		-865.6	-3937.1	0.0	0.0	0.0	0.0
		2695.6	-4011.5	0.0	0.0	0.0	0.0
		2632.8	-4000.5	0.0	0.0	0.0	0.0
		-344.6	-4070.7	0.0	0.0	0.0	0.0
		-407.4	-4059.7	0.0	0.0	0.0	0.0
		336.8	-4332.8	0.0	0.0	0.0	0.0
		274.0	-4321.8	0.0	0.0	0.0	0.0
		-2703.4	-4392.1	0.0	0.0	0.0	0.0
		-2766.2	-4381.1	0.0	0.0	0.0	0.0
		795.0	-4455.5	0.0	0.0	0.0	0.0
		732.2	-4444.5	0.0	0.0	0.0	0.0
		-2245.2	-4514.7	0.0	0.0	0.0	0.0
		-2308.0	-4503.7	0.0	0.0	0.0	0.0
Nodo	28	SX	SY	SZ	RX	RY	RZ
		-590.5	-3513.7	0.0	0.0	0.0	0.0
		-682.1	-3475.5	0.0	0.0	0.0	0.0
		-4702.8	-3344.8	0.0	0.0	0.0	0.0
		-4794.4	-3306.6	0.0	0.0	0.0	0.0
		122.7	-3962.0	0.0	0.0	0.0	0.0
		31.1	-3923.8	0.0	0.0	0.0	0.0
		-3989.6	-3793.1	0.0	0.0	0.0	0.0
		-4081.2	-3754.9	0.0	0.0	0.0	0.0
		-3167.4	-4983.2	0.0	0.0	0.0	0.0
		-3259.1	-4945.0	0.0	0.0	0.0	0.0
		-7279.7	-4814.3	0.0	0.0	0.0	0.0
		-7371.4	-4776.1	0.0	0.0	0.0	0.0
		-2454.3	-5431.5	0.0	0.0	0.0	0.0
		-2545.9	-5393.3	0.0	0.0	0.0	0.0
		-6566.6	-5262.6	0.0	0.0	0.0	0.0
		-6658.2	-5224.4	0.0	0.0	0.0	0.0
Nodo	29	SX	SY	SZ	RX	RY	RZ
		-3538.7	-2987.2	0.0	0.0	0.0	0.0
		-3627.0	-2978.5	0.0	0.0	0.0	0.0
		-7587.0	-2969.1	0.0	0.0	0.0	0.0
		-7675.3	-2960.5	0.0	0.0	0.0	0.0
		-2852.3	-3086.1	0.0	0.0	0.0	0.0
		-2940.6	-3077.4	0.0	0.0	0.0	0.0
		-6900.6	-3068.0	0.0	0.0	0.0	0.0
		-6988.9	-3059.4	0.0	0.0	0.0	0.0
		-6278.5	-3392.8	0.0	0.0	0.0	0.0
		-6366.8	-3384.1	0.0	0.0	0.0	0.0
		-10326.9	-3374.7	0.0	0.0	0.0	0.0
		-10415.2	-3366.1	0.0	0.0	0.0	0.0
		-5592.1	-3491.7	0.0	0.0	0.0	0.0
		-5680.4	-3483.0	0.0	0.0	0.0	0.0
		-9640.5	-3473.6	0.0	0.0	0.0	0.0
		-9728.8	-3465.0	0.0	0.0	0.0	0.0
Nodo	30	SX	SY	SZ	RX	RY	RZ
		-2284.7	-4417.5	0.0	0.0	0.0	0.0
		-2354.4	-4415.3	0.0	0.0	0.0	0.0
		-6371.7	-4428.8	0.0	0.0	0.0	0.0

		-6441.3	-4426.6	0.0	0.0	0.0	0.0
		-1790.3	-4429.4	0.0	0.0	0.0	0.0
		-1859.9	-4427.2	0.0	0.0	0.0	0.0
		-5877.2	-4440.8	0.0	0.0	0.0	0.0
		-5946.9	-4438.6	0.0	0.0	0.0	0.0
		-5887.2	-4450.9	0.0	0.0	0.0	0.0
		-5956.8	-4448.7	0.0	0.0	0.0	0.0
		-9974.1	-4462.3	0.0	0.0	0.0	0.0
		-10043.8	-4460.1	0.0	0.0	0.0	0.0
		-5392.7	-4462.9	0.0	0.0	0.0	0.0
		-5462.4	-4460.7	0.0	0.0	0.0	0.0
		-9479.6	-4474.2	0.0	0.0	0.0	0.0
		-9549.3	-4472.1	0.0	0.0	0.0	0.0
Nodo	31	SX	SY	SZ	RX	RY	RZ
		1859.9	-2871.7	0.0	0.0	0.0	0.0
		1899.1	-2881.9	0.0	0.0	0.0	0.0
		188.4	-2927.3	0.0	0.0	0.0	0.0
		227.6	-2937.5	0.0	0.0	0.0	0.0
		1402.8	-2734.8	0.0	0.0	0.0	0.0
		1442.0	-2745.0	0.0	0.0	0.0	0.0
		-268.8	-2790.3	0.0	0.0	0.0	0.0
		-229.5	-2800.6	0.0	0.0	0.0	0.0
		-3959.2	-1999.4	0.0	0.0	0.0	0.0
		-3920.0	-2009.6	0.0	0.0	0.0	0.0
		-5630.8	-2055.0	0.0	0.0	0.0	0.0
		-5591.6	-2065.2	0.0	0.0	0.0	0.0
		-4416.3	-1862.4	0.0	0.0	0.0	0.0
		-4377.1	-1872.7	0.0	0.0	0.0	0.0
		-6087.9	-1918.0	0.0	0.0	0.0	0.0
		-6048.7	-1928.2	0.0	0.0	0.0	0.0
Nodo	32	SX	SY	SZ	RX	RY	RZ
		3785.6	493.3	0.0	0.0	0.0	0.0
		3880.9	426.9	0.0	0.0	0.0	0.0
		3118.0	-1909.8	0.0	0.0	0.0	0.0
		3213.4	-1976.2	0.0	0.0	0.0	0.0
		2945.5	959.6	0.0	0.0	0.0	0.0
		3040.8	893.2	0.0	0.0	0.0	0.0
		2278.0	-1443.5	0.0	0.0	0.0	0.0
		2373.3	-1509.9	0.0	0.0	0.0	0.0
		-3318.3	-1026.6	0.0	0.0	0.0	0.0
		-3223.0	-1093.0	0.0	0.0	0.0	0.0
		-3985.9	-3429.8	0.0	0.0	0.0	0.0
		-3890.6	-3496.2	0.0	0.0	0.0	0.0
		-4158.4	-560.3	0.0	0.0	0.0	0.0
		-4063.1	-626.7	0.0	0.0	0.0	0.0
		-4825.9	-2963.5	0.0	0.0	0.0	0.0
		-4730.6	-3029.9	0.0	0.0	0.0	0.0
Nodo	33	SX	SY	SZ	RX	RY	RZ
		2488.6	-1761.7	0.0	0.0	0.0	0.0
		2526.5	-1730.5	0.0	0.0	0.0	0.0
		5394.9	-1636.5	0.0	0.0	0.0	0.0
		5432.9	-1605.2	0.0	0.0	0.0	0.0
		1963.3	-2088.2	0.0	0.0	0.0	0.0
		2001.3	-2057.0	0.0	0.0	0.0	0.0
		4869.7	-1962.9	0.0	0.0	0.0	0.0
		4907.6	-1931.7	0.0	0.0	0.0	0.0
		5401.2	-3715.1	0.0	0.0	0.0	0.0
		5439.2	-3683.9	0.0	0.0	0.0	0.0
		8307.6	-3589.8	0.0	0.0	0.0	0.0
		8345.5	-3558.6	0.0	0.0	0.0	0.0
		4876.0	-4041.6	0.0	0.0	0.0	0.0
		4913.9	-4010.4	0.0	0.0	0.0	0.0
		7782.3	-3916.3	0.0	0.0	0.0	0.0
		7820.3	-3885.1	0.0	0.0	0.0	0.0
Nodo	34	SX	SY	SZ	RX	RY	RZ
		-4236.0	2243.1	0.0	0.0	0.0	0.0
		-4277.1	2237.1	0.0	0.0	0.0	0.0
		-2181.4	2434.8	0.0	0.0	0.0	0.0
		-2222.4	2428.8	0.0	0.0	0.0	0.0
		-4051.5	2300.9	0.0	0.0	0.0	0.0
		-4092.5	2294.8	0.0	0.0	0.0	0.0
		-1996.9	2492.6	0.0	0.0	0.0	0.0
		-2037.9	2486.6	0.0	0.0	0.0	0.0
		2705.0	285.9	0.0	0.0	0.0	0.0
		2664.0	279.9	0.0	0.0	0.0	0.0
		4759.7	477.6	0.0	0.0	0.0	0.0
		4718.6	471.6	0.0	0.0	0.0	0.0
		2889.6	343.7	0.0	0.0	0.0	0.0
		2848.6	337.6	0.0	0.0	0.0	0.0
		4944.2	535.4	0.0	0.0	0.0	0.0
		4903.2	529.4	0.0	0.0	0.0	0.0
Nodo	35	SX	SY	SZ	RX	RY	RZ
		3198.1	-2037.0	0.0	0.0	0.0	0.0

		3135.9	-2003.1	0.0	0.0	0.0	0.0
		1585.1	-1164.2	0.0	0.0	0.0	0.0
		1522.9	-1130.3	0.0	0.0	0.0	0.0
		3781.6	-2246.6	0.0	0.0	0.0	0.0
		3719.5	-2212.7	0.0	0.0	0.0	0.0
		2168.6	-1373.8	0.0	0.0	0.0	0.0
		2106.5	-1339.9	0.0	0.0	0.0	0.0
		8437.2	-3134.8	0.0	0.0	0.0	0.0
		8375.0	-3101.0	0.0	0.0	0.0	0.0
		6824.2	-2262.0	0.0	0.0	0.0	0.0
		6762.1	-2228.1	0.0	0.0	0.0	0.0
		9020.7	-3344.4	0.0	0.0	0.0	0.0
		8958.6	-3310.6	0.0	0.0	0.0	0.0
		7407.7	-2471.6	0.0	0.0	0.0	0.0
		7345.6	-2437.7	0.0	0.0	0.0	0.0
Nodo	36	SX	SY	SZ	RX	RY	RZ
		3645.8	-3738.8	0.0	0.0	0.0	0.0
		3563.7	-3750.8	0.0	0.0	0.0	0.0
		1474.2	-3752.0	0.0	0.0	0.0	0.0
		1392.1	-3764.0	0.0	0.0	0.0	0.0
		4266.1	-3678.9	0.0	0.0	0.0	0.0
		4184.0	-3690.8	0.0	0.0	0.0	0.0
		2094.6	-3692.1	0.0	0.0	0.0	0.0
		2012.5	-3704.1	0.0	0.0	0.0	0.0
		6621.5	-3268.3	0.0	0.0	0.0	0.0
		6539.4	-3280.3	0.0	0.0	0.0	0.0
		4450.0	-3281.5	0.0	0.0	0.0	0.0
		4367.9	-3293.5	0.0	0.0	0.0	0.0
		7241.8	-3208.4	0.0	0.0	0.0	0.0
		7159.7	-3220.3	0.0	0.0	0.0	0.0
		5070.3	-3221.6	0.0	0.0	0.0	0.0
		4988.2	-3233.6	0.0	0.0	0.0	0.0
Nodo	37	SX	SY	SZ	RX	RY	RZ
		8259.7	-5602.1	0.0	0.0	0.0	0.0
		8122.9	-5603.3	0.0	0.0	0.0	0.0
		4295.8	-5621.6	0.0	0.0	0.0	0.0
		4159.1	-5622.8	0.0	0.0	0.0	0.0
		9303.4	-5600.6	0.0	0.0	0.0	0.0
		9166.6	-5601.8	0.0	0.0	0.0	0.0
		5339.6	-5620.1	0.0	0.0	0.0	0.0
		5202.8	-5621.3	0.0	0.0	0.0	0.0
		5118.5	-5558.2	0.0	0.0	0.0	0.0
		4981.8	-5559.4	0.0	0.0	0.0	0.0
		1154.7	-5577.7	0.0	0.0	0.0	0.0
		1018.0	-5578.9	0.0	0.0	0.0	0.0
		6162.3	-5556.7	0.0	0.0	0.0	0.0
		6025.5	-5557.9	0.0	0.0	0.0	0.0
		2198.4	-5576.2	0.0	0.0	0.0	0.0
		2061.7	-5577.4	0.0	0.0	0.0	0.0
Nodo	38	SX	SY	SZ	RX	RY	RZ
		8123.6	-4186.7	0.0	0.0	0.0	0.0
		8013.4	-4179.8	0.0	0.0	0.0	0.0
		4779.6	-4292.1	0.0	0.0	0.0	0.0
		4669.4	-4285.1	0.0	0.0	0.0	0.0
		8941.6	-4243.6	0.0	0.0	0.0	0.0
		8831.4	-4236.6	0.0	0.0	0.0	0.0
		5597.6	-4348.9	0.0	0.0	0.0	0.0
		5487.3	-4342.0	0.0	0.0	0.0	0.0
		5549.9	-4014.6	0.0	0.0	0.0	0.0
		5439.7	-4007.6	0.0	0.0	0.0	0.0
		2205.9	-4119.9	0.0	0.0	0.0	0.0
		2095.6	-4113.0	0.0	0.0	0.0	0.0
		6367.8	-4071.4	0.0	0.0	0.0	0.0
		6257.6	-4064.5	0.0	0.0	0.0	0.0
		3023.8	-4176.7	0.0	0.0	0.0	0.0
		2913.6	-4169.8	0.0	0.0	0.0	0.0
Nodo	39	SX	SY	SZ	RX	RY	RZ
		4883.2	-3979.1	0.0	0.0	0.0	0.0
		4787.2	-3966.6	0.0	0.0	0.0	0.0
		1707.0	-4391.7	0.0	0.0	0.0	0.0
		1610.9	-4379.2	0.0	0.0	0.0	0.0
		5580.7	-4065.6	0.0	0.0	0.0	0.0
		5484.7	-4053.1	0.0	0.0	0.0	0.0
		2404.4	-4478.2	0.0	0.0	0.0	0.0
		2308.4	-4465.7	0.0	0.0	0.0	0.0
		2777.0	-4410.4	0.0	0.0	0.0	0.0
		2681.0	-4398.0	0.0	0.0	0.0	0.0
		-399.3	-4823.0	0.0	0.0	0.0	0.0
		-495.3	-4810.6	0.0	0.0	0.0	0.0
		3474.5	-4497.0	0.0	0.0	0.0	0.0
		3378.4	-4484.5	0.0	0.0	0.0	0.0
		298.2	-4909.6	0.0	0.0	0.0	0.0
		202.1	-4897.1	0.0	0.0	0.0	0.0

Nodo	40	SX	SY	SZ	RX	RY	RZ
		-314.1	-3819.2	0.0	0.0	0.0	0.0
		-366.4	-3813.9	0.0	0.0	0.0	0.0
		-2252.0	-3826.5	0.0	0.0	0.0	0.0
		-2304.3	-3821.2	0.0	0.0	0.0	0.0
		25.0	-3856.7	0.0	0.0	0.0	0.0
		-27.3	-3851.3	0.0	0.0	0.0	0.0
		-1912.9	-3864.0	0.0	0.0	0.0	0.0
		-1965.3	-3858.6	0.0	0.0	0.0	0.0
		751.1	-3676.1	0.0	0.0	0.0	0.0
		698.8	-3670.7	0.0	0.0	0.0	0.0
		-1186.8	-3683.3	0.0	0.0	0.0	0.0
		-1239.2	-3678.0	0.0	0.0	0.0	0.0
		1090.2	-3713.5	0.0	0.0	0.0	0.0
		1037.9	-3708.2	0.0	0.0	0.0	0.0
		-847.7	-3720.8	0.0	0.0	0.0	0.0
		-900.1	-3715.4	0.0	0.0	0.0	0.0
Nodo	41	SX	SY	SZ	RX	RY	RZ
		1622.9	-5014.6	0.0	0.0	0.0	0.0
		1564.9	-5014.7	0.0	0.0	0.0	0.0
		-449.1	-5019.1	0.0	0.0	0.0	0.0
		-507.1	-5019.1	0.0	0.0	0.0	0.0
		2016.4	-5009.5	0.0	0.0	0.0	0.0
		1958.4	-5009.6	0.0	0.0	0.0	0.0
		-55.6	-5014.0	0.0	0.0	0.0	0.0
		-113.6	-5014.0	0.0	0.0	0.0	0.0
		450.0	-5096.4	0.0	0.0	0.0	0.0
		392.0	-5096.4	0.0	0.0	0.0	0.0
		-1622.0	-5100.8	0.0	0.0	0.0	0.0
		-1680.0	-5100.9	0.0	0.0	0.0	0.0
		843.5	-5091.3	0.0	0.0	0.0	0.0
		785.5	-5091.3	0.0	0.0	0.0	0.0
		-1228.5	-5095.7	0.0	0.0	0.0	0.0
		-1286.5	-5095.8	0.0	0.0	0.0	0.0
Nodo	42	SX	SY	SZ	RX	RY	RZ
		2084.6	-3737.2	0.0	0.0	0.0	0.0
		2049.6	-3740.1	0.0	0.0	0.0	0.0
		640.7	-3776.3	0.0	0.0	0.0	0.0
		605.7	-3779.1	0.0	0.0	0.0	0.0
		2294.0	-3710.5	0.0	0.0	0.0	0.0
		2259.0	-3713.3	0.0	0.0	0.0	0.0
		850.1	-3749.5	0.0	0.0	0.0	0.0
		815.1	-3752.4	0.0	0.0	0.0	0.0
		1464.3	-3979.8	0.0	0.0	0.0	0.0
		1429.3	-3982.6	0.0	0.0	0.0	0.0
		20.4	-4018.8	0.0	0.0	0.0	0.0
		-14.6	-4021.7	0.0	0.0	0.0	0.0
		1673.7	-3953.0	0.0	0.0	0.0	0.0
		1638.7	-3955.9	0.0	0.0	0.0	0.0
		229.8	-3992.1	0.0	0.0	0.0	0.0
		194.8	-3994.9	0.0	0.0	0.0	0.0
Nodo	43	SX	SY	SZ	RX	RY	RZ
		79.2	-4057.1	0.0	0.0	0.0	0.0
		51.7	-4090.6	0.0	0.0	0.0	0.0
		-1617.2	-4127.3	0.0	0.0	0.0	0.0
		-1644.7	-4160.8	0.0	0.0	0.0	0.0
		216.3	-3754.9	0.0	0.0	0.0	0.0
		188.9	-3788.3	0.0	0.0	0.0	0.0
		-1480.1	-3825.1	0.0	0.0	0.0	0.0
		-1507.5	-3858.5	0.0	0.0	0.0	0.0
		893.0	-5963.7	0.0	0.0	0.0	0.0
		865.6	-5997.2	0.0	0.0	0.0	0.0
		-803.4	-6033.9	0.0	0.0	0.0	0.0
		-830.8	-6067.4	0.0	0.0	0.0	0.0
		1030.2	-5661.5	0.0	0.0	0.0	0.0
		1002.8	-5694.9	0.0	0.0	0.0	0.0
		-666.2	-5731.7	0.0	0.0	0.0	0.0
		-693.6	-5765.1	0.0	0.0	0.0	0.0
Nodo	44	SX	SY	SZ	RX	RY	RZ
		-1972.4	-3410.4	0.0	0.0	0.0	0.0
		-1960.9	-3414.7	0.0	0.0	0.0	0.0
		-2795.6	-3361.8	0.0	0.0	0.0	0.0
		-2784.0	-3366.1	0.0	0.0	0.0	0.0
		-2162.2	-3368.3	0.0	0.0	0.0	0.0
		-2150.7	-3372.6	0.0	0.0	0.0	0.0
		-2985.4	-3319.8	0.0	0.0	0.0	0.0
		-2973.8	-3324.0	0.0	0.0	0.0	0.0
		-554.6	-3631.5	0.0	0.0	0.0	0.0
		-543.1	-3635.8	0.0	0.0	0.0	0.0
		-1377.8	-3583.0	0.0	0.0	0.0	0.0
		-1366.3	-3587.3	0.0	0.0	0.0	0.0
		-744.4	-3589.5	0.0	0.0	0.0	0.0
		-732.9	-3593.7	0.0	0.0	0.0	0.0
		-1567.6	-3540.9	0.0	0.0	0.0	0.0

		-1556.1	-3545.2	0.0	0.0	0.0	0.0
Nodo	45	SX	SY	SZ	RX	RY	RZ
		-897.0	-4483.0	0.0	0.0	0.0	0.0
		-896.9	-4485.7	0.0	0.0	0.0	0.0
		-1990.1	-4480.0	0.0	0.0	0.0	0.0
		-1990.0	-4482.8	0.0	0.0	0.0	0.0
		-983.0	-4453.1	0.0	0.0	0.0	0.0
		-983.0	-4455.8	0.0	0.0	0.0	0.0
		-2076.1	-4450.2	0.0	0.0	0.0	0.0
		-2076.1	-4452.9	0.0	0.0	0.0	0.0
		227.0	-4635.7	0.0	0.0	0.0	0.0
		227.0	-4638.5	0.0	0.0	0.0	0.0
		-866.1	-4632.8	0.0	0.0	0.0	0.0
		-866.0	-4635.6	0.0	0.0	0.0	0.0
		141.0	-4605.8	0.0	0.0	0.0	0.0
		141.0	-4608.6	0.0	0.0	0.0	0.0
		-952.1	-4602.9	0.0	0.0	0.0	0.0
		-952.1	-4605.7	0.0	0.0	0.0	0.0
Nodo	46	SX	SY	SZ	RX	RY	RZ
		-124.2	-3365.6	0.0	0.0	0.0	0.0
		-109.9	-3370.0	0.0	0.0	0.0	0.0
		-802.7	-3411.8	0.0	0.0	0.0	0.0
		-788.3	-3416.2	0.0	0.0	0.0	0.0
		-319.9	-3324.1	0.0	0.0	0.0	0.0
		-305.6	-3328.5	0.0	0.0	0.0	0.0
		-998.3	-3370.3	0.0	0.0	0.0	0.0
		-984.0	-3374.7	0.0	0.0	0.0	0.0
		940.1	-3615.9	0.0	0.0	0.0	0.0
		954.4	-3620.3	0.0	0.0	0.0	0.0
		261.7	-3662.1	0.0	0.0	0.0	0.0
		276.0	-3666.5	0.0	0.0	0.0	0.0
		744.4	-3574.4	0.0	0.0	0.0	0.0
		758.7	-3578.8	0.0	0.0	0.0	0.0
		66.0	-3620.6	0.0	0.0	0.0	0.0
		80.3	-3625.0	0.0	0.0	0.0	0.0
Nodo	47	SX	SY	SZ	RX	RY	RZ
		-1258.7	-4259.7	0.0	0.0	0.0	0.0
		-1244.2	-4315.8	0.0	0.0	0.0	0.0
		-2535.6	-4202.2	0.0	0.0	0.0	0.0
		-2521.1	-4258.3	0.0	0.0	0.0	0.0
		-1470.8	-3755.0	0.0	0.0	0.0	0.0
		-1456.4	-3811.0	0.0	0.0	0.0	0.0
		-2747.7	-3697.5	0.0	0.0	0.0	0.0
		-2733.2	-3753.6	0.0	0.0	0.0	0.0
		338.7	-6730.3	0.0	0.0	0.0	0.0
		353.2	-6786.3	0.0	0.0	0.0	0.0
		-938.1	-6672.8	0.0	0.0	0.0	0.0
		-923.6	-6728.8	0.0	0.0	0.0	0.0
		126.6	-6225.5	0.0	0.0	0.0	0.0
		141.1	-6281.6	0.0	0.0	0.0	0.0
		-1150.2	-6168.1	0.0	0.0	0.0	0.0
		-1135.8	-6224.1	0.0	0.0	0.0	0.0
Nodo	48	SX	SY	SZ	RX	RY	RZ
		-2734.1	-3871.5	0.0	0.0	0.0	0.0
		-2690.0	-3877.6	0.0	0.0	0.0	0.0
		-3535.1	-3833.5	0.0	0.0	0.0	0.0
		-3491.0	-3839.5	0.0	0.0	0.0	0.0
		-3202.1	-3811.6	0.0	0.0	0.0	0.0
		-3157.9	-3817.6	0.0	0.0	0.0	0.0
		-4003.1	-3773.5	0.0	0.0	0.0	0.0
		-3958.9	-3779.6	0.0	0.0	0.0	0.0
		-392.5	-4132.7	0.0	0.0	0.0	0.0
		-348.3	-4138.8	0.0	0.0	0.0	0.0
		-1193.4	-4094.7	0.0	0.0	0.0	0.0
		-1149.3	-4100.7	0.0	0.0	0.0	0.0
		-860.4	-4072.8	0.0	0.0	0.0	0.0
		-816.3	-4078.8	0.0	0.0	0.0	0.0
		-1661.4	-4034.7	0.0	0.0	0.0	0.0
		-1617.2	-4040.8	0.0	0.0	0.0	0.0
Nodo	49	SX	SY	SZ	RX	RY	RZ
		-864.1	-5031.5	0.0	0.0	0.0	0.0
		-847.3	-5034.5	0.0	0.0	0.0	0.0
		-2027.5	-5029.7	0.0	0.0	0.0	0.0
		-2010.6	-5032.8	0.0	0.0	0.0	0.0
		-1085.0	-4993.8	0.0	0.0	0.0	0.0
		-1068.1	-4996.8	0.0	0.0	0.0	0.0
		-2248.3	-4992.0	0.0	0.0	0.0	0.0
		-2231.5	-4995.1	0.0	0.0	0.0	0.0
		646.1	-5159.2	0.0	0.0	0.0	0.0
		662.9	-5162.2	0.0	0.0	0.0	0.0
		-517.3	-5157.4	0.0	0.0	0.0	0.0
		-500.4	-5160.4	0.0	0.0	0.0	0.0
		425.2	-5121.5	0.0	0.0	0.0	0.0

		442.1	-5124.5	0.0	0.0	0.0	0.0
		-738.1	-5119.7	0.0	0.0	0.0	0.0
		-721.3	-5122.7	0.0	0.0	0.0	0.0
Nodo	50	SX	SY	SZ	RX	RY	RZ
		517.6	-3730.2	0.0	0.0	0.0	0.0
		535.7	-3736.8	0.0	0.0	0.0	0.0
		-216.4	-3774.9	0.0	0.0	0.0	0.0
		-198.3	-3781.5	0.0	0.0	0.0	0.0
		305.4	-3664.0	0.0	0.0	0.0	0.0
		323.5	-3670.6	0.0	0.0	0.0	0.0
		-428.5	-3708.7	0.0	0.0	0.0	0.0
		-410.4	-3715.3	0.0	0.0	0.0	0.0
		1546.8	-3991.1	0.0	0.0	0.0	0.0
		1564.9	-3997.7	0.0	0.0	0.0	0.0
		812.9	-4035.8	0.0	0.0	0.0	0.0
		831.0	-4042.4	0.0	0.0	0.0	0.0
		1334.6	-3924.9	0.0	0.0	0.0	0.0
		1352.7	-3931.5	0.0	0.0	0.0	0.0
		600.7	-3969.6	0.0	0.0	0.0	0.0
		618.8	-3976.2	0.0	0.0	0.0	0.0
Nodo	51	SX	SY	SZ	RX	RY	RZ
		-461.8	-4223.5	0.0	0.0	0.0	0.0
		-458.5	-4296.6	0.0	0.0	0.0	0.0
		-1567.7	-4272.1	0.0	0.0	0.0	0.0
		-1564.4	-4345.1	0.0	0.0	0.0	0.0
		-559.5	-3553.5	0.0	0.0	0.0	0.0
		-556.2	-3626.6	0.0	0.0	0.0	0.0
		-1665.4	-3602.1	0.0	0.0	0.0	0.0
		-1662.1	-3675.2	0.0	0.0	0.0	0.0
		494.7	-6960.2	0.0	0.0	0.0	0.0
		497.9	-7033.3	0.0	0.0	0.0	0.0
		-611.2	-7008.8	0.0	0.0	0.0	0.0
		-608.0	-7081.8	0.0	0.0	0.0	0.0
		397.0	-6290.2	0.0	0.0	0.0	0.0
		400.2	-6363.3	0.0	0.0	0.0	0.0
		-708.9	-6338.8	0.0	0.0	0.0	0.0
		-705.6	-6411.9	0.0	0.0	0.0	0.0
Nodo	52	SX	SY	SZ	RX	RY	RZ
		-1856.4	-3829.0	0.0	0.0	0.0	0.0
		-1840.7	-3837.1	0.0	0.0	0.0	0.0
		-2321.7	-3795.6	0.0	0.0	0.0	0.0
		-2306.0	-3803.7	0.0	0.0	0.0	0.0
		-2063.5	-3745.3	0.0	0.0	0.0	0.0
		-2047.8	-3753.5	0.0	0.0	0.0	0.0
		-2528.8	-3712.0	0.0	0.0	0.0	0.0
		-2513.1	-3720.1	0.0	0.0	0.0	0.0
		-770.6	-4108.3	0.0	0.0	0.0	0.0
		-754.8	-4116.4	0.0	0.0	0.0	0.0
		-1235.9	-4075.0	0.0	0.0	0.0	0.0
		-1220.1	-4083.1	0.0	0.0	0.0	0.0
		-977.7	-4024.7	0.0	0.0	0.0	0.0
		-961.9	-4032.8	0.0	0.0	0.0	0.0
		-1443.0	-3991.3	0.0	0.0	0.0	0.0
		-1427.2	-3999.4	0.0	0.0	0.0	0.0
Nodo	53	SX	SY	SZ	RX	RY	RZ
		359.6	-5069.0	0.0	0.0	0.0	0.0
		323.0	-5075.9	0.0	0.0	0.0	0.0
		-291.7	-5061.0	0.0	0.0	0.0	0.0
		-328.2	-5067.9	0.0	0.0	0.0	0.0
		623.8	-4990.4	0.0	0.0	0.0	0.0
		587.3	-4997.3	0.0	0.0	0.0	0.0
		-27.4	-4982.4	0.0	0.0	0.0	0.0
		-64.0	-4989.3	0.0	0.0	0.0	0.0
		-474.8	-5307.7	0.0	0.0	0.0	0.0
		-511.4	-5314.6	0.0	0.0	0.0	0.0
		-1126.1	-5299.7	0.0	0.0	0.0	0.0
		-1162.7	-5306.6	0.0	0.0	0.0	0.0
		-210.6	-5229.1	0.0	0.0	0.0	0.0
		-247.2	-5236.0	0.0	0.0	0.0	0.0
		-861.8	-5221.2	0.0	0.0	0.0	0.0
		-898.4	-5228.1	0.0	0.0	0.0	0.0
Nodo	54	SX	SY	SZ	RX	RY	RZ
		1930.9	-3856.1	0.0	0.0	0.0	0.0
		1873.8	-3877.6	0.0	0.0	0.0	0.0
		1900.4	-3885.0	0.0	0.0	0.0	0.0
		1843.2	-3906.5	0.0	0.0	0.0	0.0
		2400.9	-3648.4	0.0	0.0	0.0	0.0
		2343.8	-3669.9	0.0	0.0	0.0	0.0
		2370.3	-3677.3	0.0	0.0	0.0	0.0
		2313.2	-3698.8	0.0	0.0	0.0	0.0
		161.2	-4602.7	0.0	0.0	0.0	0.0
		104.1	-4624.2	0.0	0.0	0.0	0.0
		130.6	-4631.6	0.0	0.0	0.0	0.0

		73.5	-4653.1	0.0	0.0	0.0	0.0
		631.1	-4395.0	0.0	0.0	0.0	0.0
		574.0	-4416.5	0.0	0.0	0.0	0.0
		600.5	-4423.9	0.0	0.0	0.0	0.0
		543.4	-4445.4	0.0	0.0	0.0	0.0
Nodo	55	SX	SY	SZ	RX	RY	RZ
		1606.9	-3907.5	0.0	0.0	0.0	0.0
		1495.9	-4008.2	0.0	0.0	0.0	0.0
		1997.5	-4187.0	0.0	0.0	0.0	0.0
		1886.5	-4287.7	0.0	0.0	0.0	0.0
		2528.1	-2991.6	0.0	0.0	0.0	0.0
		2417.1	-3092.3	0.0	0.0	0.0	0.0
		2918.7	-3271.1	0.0	0.0	0.0	0.0
		2807.7	-3371.8	0.0	0.0	0.0	0.0
		-1703.3	-7462.2	0.0	0.0	0.0	0.0
		-1814.2	-7562.8	0.0	0.0	0.0	0.0
		-1312.7	-7741.6	0.0	0.0	0.0	0.0
		-1423.6	-7842.3	0.0	0.0	0.0	0.0
		-782.1	-6546.3	0.0	0.0	0.0	0.0
		-893.0	-6647.0	0.0	0.0	0.0	0.0
		-391.5	-6825.8	0.0	0.0	0.0	0.0
		-502.4	-6926.4	0.0	0.0	0.0	0.0
Nodo	56	SX	SY	SZ	RX	RY	RZ
		920.5	-3765.1	0.0	0.0	0.0	0.0
		798.0	-3789.5	0.0	0.0	0.0	0.0
		2571.7	-3730.3	0.0	0.0	0.0	0.0
		2449.2	-3754.6	0.0	0.0	0.0	0.0
		1934.3	-3549.8	0.0	0.0	0.0	0.0
		1811.8	-3574.2	0.0	0.0	0.0	0.0
		3585.6	-3515.0	0.0	0.0	0.0	0.0
		3463.0	-3539.3	0.0	0.0	0.0	0.0
		-2966.3	-4555.9	0.0	0.0	0.0	0.0
		-3088.9	-4580.2	0.0	0.0	0.0	0.0
		-1315.1	-4521.0	0.0	0.0	0.0	0.0
		-1437.6	-4545.4	0.0	0.0	0.0	0.0
		-1952.5	-4340.6	0.0	0.0	0.0	0.0
		-2075.0	-4364.9	0.0	0.0	0.0	0.0
		-301.3	-4305.7	0.0	0.0	0.0	0.0
		-423.8	-4330.1	0.0	0.0	0.0	0.0
Nodo	57	SX	SY	SZ	RX	RY	RZ
		3028.3	-3177.4	0.0	0.0	0.0	0.0
		2849.7	-3169.5	0.0	0.0	0.0	0.0
		5115.3	-3342.0	0.0	0.0	0.0	0.0
		4936.7	-3334.1	0.0	0.0	0.0	0.0
		4548.4	-3254.6	0.0	0.0	0.0	0.0
		4369.8	-3246.7	0.0	0.0	0.0	0.0
		6635.4	-3419.3	0.0	0.0	0.0	0.0
		6456.8	-3411.4	0.0	0.0	0.0	0.0
		-2824.5	-2920.8	0.0	0.0	0.0	0.0
		-3003.0	-2912.9	0.0	0.0	0.0	0.0
		-737.5	-3085.5	0.0	0.0	0.0	0.0
		-916.0	-3077.6	0.0	0.0	0.0	0.0
		-1304.4	-2998.1	0.0	0.0	0.0	0.0
		-1482.9	-2990.2	0.0	0.0	0.0	0.0
		782.6	-3162.7	0.0	0.0	0.0	0.0
		604.1	-3154.8	0.0	0.0	0.0	0.0
Nodo	58	SX	SY	SZ	RX	RY	RZ
		1451.3	-12.3	0.0	0.0	0.0	0.0
		1343.5	-99.8	0.0	0.0	0.0	0.0
		2676.2	465.7	0.0	0.0	0.0	0.0
		2568.3	378.2	0.0	0.0	0.0	0.0
		2392.9	690.2	0.0	0.0	0.0	0.0
		2285.0	602.7	0.0	0.0	0.0	0.0
		3617.7	1168.3	0.0	0.0	0.0	0.0
		3509.8	1080.8	0.0	0.0	0.0	0.0
		-2019.8	-2425.5	0.0	0.0	0.0	0.0
		-2127.6	-2513.0	0.0	0.0	0.0	0.0
		-794.9	-1947.4	0.0	0.0	0.0	0.0
		-902.8	-2034.9	0.0	0.0	0.0	0.0
		-1078.3	-1722.9	0.0	0.0	0.0	0.0
		-1186.1	-1810.5	0.0	0.0	0.0	0.0
		146.6	-1244.9	0.0	0.0	0.0	0.0
		38.7	-1332.4	0.0	0.0	0.0	0.0
Nodo	59	SX	SY	SZ	RX	RY	RZ
		-2550.7	-5043.9	0.0	0.0	0.0	0.0
		-2554.3	-5154.0	0.0	0.0	0.0	0.0
		-2418.7	-3822.3	0.0	0.0	0.0	0.0
		-2422.2	-3932.4	0.0	0.0	0.0	0.0
		-2524.7	-4070.4	0.0	0.0	0.0	0.0
		-2528.2	-4180.5	0.0	0.0	0.0	0.0
		-2392.6	-2848.9	0.0	0.0	0.0	0.0
		-2396.1	-2959.0	0.0	0.0	0.0	0.0
		-2403.4	-498.2	0.0	0.0	0.0	0.0

		-2406.9	-608.3	0.0	0.0	0.0	0.0
		-2271.3	723.3	0.0	0.0	0.0	0.0
		-2274.9	613.3	0.0	0.0	0.0	0.0
		-2377.3	475.2	0.0	0.0	0.0	0.0
		-2380.9	365.1	0.0	0.0	0.0	0.0
		-2245.2	1696.8	0.0	0.0	0.0	0.0
		-2248.8	1586.7	0.0	0.0	0.0	0.0
Nodo	60	SX	SY	SZ	RX	RY	RZ
		2826.8	-394.7	0.0	0.0	0.0	0.0
		2814.8	-501.6	0.0	0.0	0.0	0.0
		3022.6	436.2	0.0	0.0	0.0	0.0
		3010.6	329.3	0.0	0.0	0.0	0.0
		2927.3	496.9	0.0	0.0	0.0	0.0
		2915.3	390.1	0.0	0.0	0.0	0.0
		3123.1	1327.8	0.0	0.0	0.0	0.0
		3111.1	1220.9	0.0	0.0	0.0	0.0
		2443.6	-3272.0	0.0	0.0	0.0	0.0
		2431.6	-3378.9	0.0	0.0	0.0	0.0
		2639.4	-2441.2	0.0	0.0	0.0	0.0
		2627.4	-2548.0	0.0	0.0	0.0	0.0
		2544.1	-2380.4	0.0	0.0	0.0	0.0
		2532.1	-2487.3	0.0	0.0	0.0	0.0
		2739.9	-1549.5	0.0	0.0	0.0	0.0
		2727.9	-1656.4	0.0	0.0	0.0	0.0
Nodo	61	SX	SY	SZ	RX	RY	RZ
		4630.7	2124.7	0.0	0.0	0.0	0.0
		4518.6	2295.8	0.0	0.0	0.0	0.0
		5060.3	-224.4	0.0	0.0	0.0	0.0
		4948.2	-53.4	0.0	0.0	0.0	0.0
		5340.5	798.2	0.0	0.0	0.0	0.0
		5228.4	969.2	0.0	0.0	0.0	0.0
		5770.1	-1551.0	0.0	0.0	0.0	0.0
		5658.0	-1379.9	0.0	0.0	0.0	0.0
		-5299.1	6297.0	0.0	0.0	0.0	0.0
		-5411.2	6468.1	0.0	0.0	0.0	0.0
		-4869.5	3947.9	0.0	0.0	0.0	0.0
		-4981.6	4119.0	0.0	0.0	0.0	0.0
		-4589.3	4970.5	0.0	0.0	0.0	0.0
		-4701.4	5141.6	0.0	0.0	0.0	0.0
		-4159.7	2621.3	0.0	0.0	0.0	0.0
		-4271.8	2792.4	0.0	0.0	0.0	0.0
Nodo	62	SX	SY	SZ	RX	RY	RZ
		-10303.5	906.3	0.0	0.0	0.0	0.0
		-10730.9	916.5	0.0	0.0	0.0	0.0
		-5411.7	779.3	0.0	0.0	0.0	0.0
		-5839.1	789.6	0.0	0.0	0.0	0.0
		-6934.1	821.3	0.0	0.0	0.0	0.0
		-7361.5	831.5	0.0	0.0	0.0	0.0
		-2042.3	694.3	0.0	0.0	0.0	0.0
		-2469.7	704.6	0.0	0.0	0.0	0.0
		162.0	-47.9	0.0	0.0	0.0	0.0
		-265.4	-37.6	0.0	0.0	0.0	0.0
		5053.8	-174.9	0.0	0.0	0.0	0.0
		4626.4	-164.6	0.0	0.0	0.0	0.0
		3531.4	-132.9	0.0	0.0	0.0	0.0
		3104.0	-122.7	0.0	0.0	0.0	0.0
		8423.2	-259.9	0.0	0.0	0.0	0.0
		7995.8	-249.6	0.0	0.0	0.0	0.0
Nodo	63	SX	SY	SZ	RX	RY	RZ
		-12461.3	2510.5	0.0	0.0	0.0	0.0
		-12838.1	2400.7	0.0	0.0	0.0	0.0
		-10037.4	6144.1	0.0	0.0	0.0	0.0
		-10414.3	6034.4	0.0	0.0	0.0	0.0
		-9312.7	3555.9	0.0	0.0	0.0	0.0
		-9689.5	3446.1	0.0	0.0	0.0	0.0
		-6888.8	7189.6	0.0	0.0	0.0	0.0
		-7265.7	7079.8	0.0	0.0	0.0	0.0
		4084.5	-3492.2	0.0	0.0	0.0	0.0
		3707.7	-3602.0	0.0	0.0	0.0	0.0
		6508.4	141.4	0.0	0.0	0.0	0.0
		6131.5	31.6	0.0	0.0	0.0	0.0
		7233.1	-2446.8	0.0	0.0	0.0	0.0
		6856.3	-2556.6	0.0	0.0	0.0	0.0
		9657.0	1186.8	0.0	0.0	0.0	0.0
		9280.1	1077.0	0.0	0.0	0.0	0.0
Nodo	64	SX	SY	SZ	RX	RY	RZ
		-4321.2	-769.2	0.0	0.0	0.0	0.0
		-4324.8	-778.7	0.0	0.0	0.0	0.0
		-4372.1	142.6	0.0	0.0	0.0	0.0
		-4375.7	133.0	0.0	0.0	0.0	0.0
		-4307.1	-661.0	0.0	0.0	0.0	0.0
		-4310.7	-670.5	0.0	0.0	0.0	0.0
		-4358.0	250.8	0.0	0.0	0.0	0.0



		-4361.6	241.3	0.0	0.0	0.0	0.0
		-4248.6	-105.7	0.0	0.0	0.0	0.0
		-4252.2	-115.2	0.0	0.0	0.0	0.0
		-4299.5	806.1	0.0	0.0	0.0	0.0
		-4303.1	796.6	0.0	0.0	0.0	0.0
		-4234.4	2.5	0.0	0.0	0.0	0.0
		-4238.0	-7.0	0.0	0.0	0.0	0.0
		-4285.3	914.3	0.0	0.0	0.0	0.0
		-4288.9	904.8	0.0	0.0	0.0	0.0
Nodo	65	SX	SY	SZ	RX	RY	RZ
		4449.9	3069.6	0.0	0.0	0.0	0.0
		4444.5	2805.3	0.0	0.0	0.0	0.0
		4453.1	4348.5	0.0	0.0	0.0	0.0
		4447.7	4084.2	0.0	0.0	0.0	0.0
		4481.2	5283.7	0.0	0.0	0.0	0.0
		4475.8	5019.4	0.0	0.0	0.0	0.0
		4484.4	6562.6	0.0	0.0	0.0	0.0
		4479.0	6298.2	0.0	0.0	0.0	0.0
		4343.5	-4826.8	0.0	0.0	0.0	0.0
		4338.1	-5091.1	0.0	0.0	0.0	0.0
		4346.7	-3547.9	0.0	0.0	0.0	0.0
		4341.3	-3812.2	0.0	0.0	0.0	0.0
		4374.8	-2612.8	0.0	0.0	0.0	0.0
		4369.4	-2877.1	0.0	0.0	0.0	0.0
		4378.0	-1333.9	0.0	0.0	0.0	0.0
		4372.7	-1598.2	0.0	0.0	0.0	0.0
Nodo	66	SX	SY	SZ	RX	RY	RZ
		882.4	-4304.0	0.0	0.0	0.0	0.0
		890.5	-4081.4	0.0	0.0	0.0	0.0
		591.2	-2885.8	0.0	0.0	0.0	0.0
		599.3	-2663.2	0.0	0.0	0.0	0.0
		798.4	-5894.3	0.0	0.0	0.0	0.0
		806.5	-5671.7	0.0	0.0	0.0	0.0
		507.2	-4476.1	0.0	0.0	0.0	0.0
		515.3	-4253.5	0.0	0.0	0.0	0.0
		-109.3	9082.1	0.0	0.0	0.0	0.0
		-101.1	9304.7	0.0	0.0	0.0	0.0
		-400.5	10500.3	0.0	0.0	0.0	0.0
		-392.3	10722.9	0.0	0.0	0.0	0.0
		-193.3	7491.8	0.0	0.0	0.0	0.0
		-185.1	7714.4	0.0	0.0	0.0	0.0
		-484.5	8910.0	0.0	0.0	0.0	0.0
		-476.3	9132.6	0.0	0.0	0.0	0.0
Nodo	67	SX	SY	SZ	RX	RY	RZ
		-746.0	2894.9	0.0	0.0	0.0	0.0
		-757.5	2531.4	0.0	0.0	0.0	0.0
		-851.4	5217.8	0.0	0.0	0.0	0.0
		-862.9	4854.3	0.0	0.0	0.0	0.0
		-651.9	6254.7	0.0	0.0	0.0	0.0
		-663.4	5891.2	0.0	0.0	0.0	0.0
		-757.3	8577.6	0.0	0.0	0.0	0.0
		-768.8	8214.0	0.0	0.0	0.0	0.0
		274.0	-6841.4	0.0	0.0	0.0	0.0
		262.5	-7204.9	0.0	0.0	0.0	0.0
		168.6	-4518.5	0.0	0.0	0.0	0.0
		157.1	-4882.1	0.0	0.0	0.0	0.0
		368.1	-3481.6	0.0	0.0	0.0	0.0
		356.5	-3845.1	0.0	0.0	0.0	0.0
		262.7	-1158.7	0.0	0.0	0.0	0.0
		251.2	-1522.3	0.0	0.0	0.0	0.0
Nodo	68	SX	SY	SZ	RX	RY	RZ
		-3030.4	-276.3	0.0	0.0	0.0	0.0
		-3034.8	-295.6	0.0	0.0	0.0	0.0
		-3361.9	307.3	0.0	0.0	0.0	0.0
		-3366.3	288.0	0.0	0.0	0.0	0.0
		-3005.4	-118.1	0.0	0.0	0.0	0.0
		-3009.9	-137.4	0.0	0.0	0.0	0.0
		-3336.9	465.5	0.0	0.0	0.0	0.0
		-3341.3	446.2	0.0	0.0	0.0	0.0
		-2910.2	419.8	0.0	0.0	0.0	0.0
		-2914.7	400.5	0.0	0.0	0.0	0.0
		-3241.7	1003.4	0.0	0.0	0.0	0.0
		-3246.2	984.1	0.0	0.0	0.0	0.0
		-2885.3	577.9	0.0	0.0	0.0	0.0
		-2889.7	558.7	0.0	0.0	0.0	0.0
		-3216.7	1161.5	0.0	0.0	0.0	0.0
		-3221.2	1142.3	0.0	0.0	0.0	0.0
Nodo	69	SX	SY	SZ	RX	RY	RZ
		3360.4	2927.8	0.0	0.0	0.0	0.0
		3358.2	2733.4	0.0	0.0	0.0	0.0
		3194.8	3913.5	0.0	0.0	0.0	0.0
		3192.6	3719.2	0.0	0.0	0.0	0.0
		3361.2	4610.1	0.0	0.0	0.0	0.0

		3359.0	4415.8	0.0	0.0	0.0	0.0
		3195.6	5595.9	0.0	0.0	0.0	0.0
		3193.4	5401.6	0.0	0.0	0.0	0.0
		3435.7	-3160.5	0.0	0.0	0.0	0.0
		3433.5	-3354.8	0.0	0.0	0.0	0.0
		3270.1	-2174.8	0.0	0.0	0.0	0.0
		3267.9	-2369.1	0.0	0.0	0.0	0.0
		3436.6	-1478.1	0.0	0.0	0.0	0.0
		3434.3	-1672.5	0.0	0.0	0.0	0.0
		3271.0	-492.4	0.0	0.0	0.0	0.0
		3268.7	-686.7	0.0	0.0	0.0	0.0
Nodo	70	SX	SY	SZ	RX	RY	RZ
		-464.8	-4908.5	0.0	0.0	0.0	0.0
		-363.9	-4739.0	0.0	0.0	0.0	0.0
		-2357.3	-877.7	0.0	0.0	0.0	0.0
		-2256.4	-708.3	0.0	0.0	0.0	0.0
		-1436.2	-6191.8	0.0	0.0	0.0	0.0
		-1335.2	-6022.3	0.0	0.0	0.0	0.0
		-3328.7	-2161.0	0.0	0.0	0.0	0.0
		-3227.7	-1991.5	0.0	0.0	0.0	0.0
		7948.2	1939.6	0.0	0.0	0.0	0.0
		8049.2	2109.1	0.0	0.0	0.0	0.0
		6055.7	5970.4	0.0	0.0	0.0	0.0
		6156.7	6139.8	0.0	0.0	0.0	0.0
		6976.9	656.3	0.0	0.0	0.0	0.0
		7077.9	825.8	0.0	0.0	0.0	0.0
		5084.4	4687.1	0.0	0.0	0.0	0.0
		5185.4	4856.5	0.0	0.0	0.0	0.0
Nodo	71	SX	SY	SZ	RX	RY	RZ
		-3737.0	-95.5	0.0	0.0	0.0	0.0
		-3296.0	-82.1	0.0	0.0	0.0	0.0
		-4512.1	35.8	0.0	0.0	0.0	0.0
		-4071.2	49.2	0.0	0.0	0.0	0.0
		-7786.3	-206.1	0.0	0.0	0.0	0.0
		-7345.4	-192.6	0.0	0.0	0.0	0.0
		-8561.5	-74.8	0.0	0.0	0.0	0.0
		-8120.6	-61.4	0.0	0.0	0.0	0.0
		8619.6	-864.4	0.0	0.0	0.0	0.0
		9060.5	-851.0	0.0	0.0	0.0	0.0
		7844.4	-733.1	0.0	0.0	0.0	0.0
		8285.3	-719.7	0.0	0.0	0.0	0.0
		4570.2	-975.0	0.0	0.0	0.0	0.0
		5011.2	-961.5	0.0	0.0	0.0	0.0
		3795.0	-843.7	0.0	0.0	0.0	0.0
		4236.0	-830.2	0.0	0.0	0.0	0.0
Nodo	72	SX	SY	SZ	RX	RY	RZ
		7637.4	1373.0	0.0	0.0	0.0	0.0
		8003.1	1211.1	0.0	0.0	0.0	0.0
		5692.6	-139.5	0.0	0.0	0.0	0.0
		6058.3	-301.4	0.0	0.0	0.0	0.0
		4277.4	2860.0	0.0	0.0	0.0	0.0
		4643.1	2698.1	0.0	0.0	0.0	0.0
		2332.6	1347.4	0.0	0.0	0.0	0.0
		2698.2	1185.5	0.0	0.0	0.0	0.0
		-7203.6	-3825.5	0.0	0.0	0.0	0.0
		-6838.0	-3987.4	0.0	0.0	0.0	0.0
		-9148.5	-5338.0	0.0	0.0	0.0	0.0
		-8782.8	-5499.9	0.0	0.0	0.0	0.0
		-10563.7	-2338.6	0.0	0.0	0.0	0.0
		-10198.0	-2500.5	0.0	0.0	0.0	0.0
		-12508.5	-3851.1	0.0	0.0	0.0	0.0
		-12142.8	-4013.0	0.0	0.0	0.0	0.0
Nodo	73	SX	SY	SZ	RX	RY	RZ
		-4995.6	-227.1	0.0	0.0	0.0	0.0
		-5014.7	-138.4	0.0	0.0	0.0	0.0
		-6291.3	-19.3	0.0	0.0	0.0	0.0
		-6310.4	69.4	0.0	0.0	0.0	0.0
		-4851.1	-1033.2	0.0	0.0	0.0	0.0
		-4870.2	-944.5	0.0	0.0	0.0	0.0
		-6146.8	-825.4	0.0	0.0	0.0	0.0
		-6165.8	-736.8	0.0	0.0	0.0	0.0
		-4117.3	-3800.9	0.0	0.0	0.0	0.0
		-4136.4	-3712.2	0.0	0.0	0.0	0.0
		-5413.0	-3593.1	0.0	0.0	0.0	0.0
		-5432.1	-3504.4	0.0	0.0	0.0	0.0
		-3972.7	-4607.0	0.0	0.0	0.0	0.0
		-3991.8	-4518.4	0.0	0.0	0.0	0.0
		-5268.4	-4399.3	0.0	0.0	0.0	0.0
		-5287.5	-4310.6	0.0	0.0	0.0	0.0
Nodo	74	SX	SY	SZ	RX	RY	RZ
		-894.1	-779.6	0.0	0.0	0.0	0.0
		-906.9	-769.4	0.0	0.0	0.0	0.0
		-1632.5	-757.8	0.0	0.0	0.0	0.0

		-1645.4	-747.5	0.0	0.0	0.0	0.0
		-794.5	-972.5	0.0	0.0	0.0	0.0
		-807.4	-962.2	0.0	0.0	0.0	0.0
		-1532.9	-950.6	0.0	0.0	0.0	0.0
		-1545.8	-940.3	0.0	0.0	0.0	0.0
		-215.8	-1281.4	0.0	0.0	0.0	0.0
		-228.7	-1271.1	0.0	0.0	0.0	0.0
		-954.3	-1259.6	0.0	0.0	0.0	0.0
		-967.1	-1249.3	0.0	0.0	0.0	0.0
		-116.3	-1474.2	0.0	0.0	0.0	0.0
		-129.1	-1464.0	0.0	0.0	0.0	0.0
		-854.7	-1452.4	0.0	0.0	0.0	0.0
		-867.5	-1442.1	0.0	0.0	0.0	0.0
Nodo	75	SX	SY	SZ	RX	RY	RZ
		-301.8	-1249.5	0.0	0.0	0.0	0.0
		-318.9	-1284.4	0.0	0.0	0.0	0.0
		-929.5	-1358.1	0.0	0.0	0.0	0.0
		-946.5	-1393.0	0.0	0.0	0.0	0.0
		-171.4	-978.9	0.0	0.0	0.0	0.0
		-188.4	-1013.8	0.0	0.0	0.0	0.0
		-799.0	-1087.5	0.0	0.0	0.0	0.0
		-816.1	-1122.4	0.0	0.0	0.0	0.0
		877.9	366.5	0.0	0.0	0.0	0.0
		860.8	331.6	0.0	0.0	0.0	0.0
		250.2	257.9	0.0	0.0	0.0	0.0
		233.2	223.0	0.0	0.0	0.0	0.0
		1008.3	637.2	0.0	0.0	0.0	0.0
		991.3	602.3	0.0	0.0	0.0	0.0
		380.7	528.6	0.0	0.0	0.0	0.0
		363.6	493.7	0.0	0.0	0.0	0.0
Nodo	76	SX	SY	SZ	RX	RY	RZ
		562.6	2508.8	0.0	0.0	0.0	0.0
		577.5	2522.5	0.0	0.0	0.0	0.0
		-64.5	2199.1	0.0	0.0	0.0	0.0
		-49.7	2212.8	0.0	0.0	0.0	0.0
		419.3	2361.1	0.0	0.0	0.0	0.0
		434.1	2374.8	0.0	0.0	0.0	0.0
		-207.9	2051.4	0.0	0.0	0.0	0.0
		-193.0	2065.0	0.0	0.0	0.0	0.0
		-356.3	-1823.5	0.0	0.0	0.0	0.0
		-341.5	-1809.8	0.0	0.0	0.0	0.0
		-983.5	-2133.2	0.0	0.0	0.0	0.0
		-968.6	-2119.5	0.0	0.0	0.0	0.0
		-499.6	-1971.2	0.0	0.0	0.0	0.0
		-484.8	-1957.5	0.0	0.0	0.0	0.0
		-1126.8	-2280.9	0.0	0.0	0.0	0.0
		-1111.9	-2267.3	0.0	0.0	0.0	0.0
Nodo	77	SX	SY	SZ	RX	RY	RZ
		1957.5	-1374.1	0.0	0.0	0.0	0.0
		1965.7	-1371.7	0.0	0.0	0.0	0.0
		1103.3	-1371.7	0.0	0.0	0.0	0.0
		1111.5	-1369.4	0.0	0.0	0.0	0.0
		1870.4	-1358.2	0.0	0.0	0.0	0.0
		1878.6	-1355.8	0.0	0.0	0.0	0.0
		1016.2	-1355.9	0.0	0.0	0.0	0.0
		1024.4	-1353.5	0.0	0.0	0.0	0.0
		1294.3	480.9	0.0	0.0	0.0	0.0
		1302.5	483.2	0.0	0.0	0.0	0.0
		440.1	483.2	0.0	0.0	0.0	0.0
		448.3	485.5	0.0	0.0	0.0	0.0
		1207.2	496.7	0.0	0.0	0.0	0.0
		1215.4	499.1	0.0	0.0	0.0	0.0
		353.0	499.0	0.0	0.0	0.0	0.0
		361.2	501.4	0.0	0.0	0.0	0.0
Nodo	78	SX	SY	SZ	RX	RY	RZ
		266.3	-580.9	0.0	0.0	0.0	0.0
		271.4	-551.0	0.0	0.0	0.0	0.0
		-362.0	-934.7	0.0	0.0	0.0	0.0
		-357.0	-904.8	0.0	0.0	0.0	0.0
		207.8	-786.1	0.0	0.0	0.0	0.0
		212.8	-756.2	0.0	0.0	0.0	0.0
		-420.6	-1139.9	0.0	0.0	0.0	0.0
		-415.6	-1110.0	0.0	0.0	0.0	0.0
		435.7	964.4	0.0	0.0	0.0	0.0
		440.7	994.3	0.0	0.0	0.0	0.0
		-192.7	610.6	0.0	0.0	0.0	0.0
		-187.7	640.5	0.0	0.0	0.0	0.0
		377.1	759.2	0.0	0.0	0.0	0.0
		382.1	789.1	0.0	0.0	0.0	0.0
		-251.3	405.4	0.0	0.0	0.0	0.0
		-246.3	435.3	0.0	0.0	0.0	0.0
Nodo	79	SX	SY	SZ	RX	RY	RZ
		327.5	-164.7	0.0	0.0	0.0	0.0

		333.7	-172.9	0.0	0.0	0.0	0.0
		-230.3	-198.2	0.0	0.0	0.0	0.0
		-224.1	-206.4	0.0	0.0	0.0	0.0
		256.2	-41.0	0.0	0.0	0.0	0.0
		262.4	-49.3	0.0	0.0	0.0	0.0
		-301.7	-74.5	0.0	0.0	0.0	0.0
		-295.5	-82.7	0.0	0.0	0.0	0.0
		539.5	-645.7	0.0	0.0	0.0	0.0
		545.7	-654.0	0.0	0.0	0.0	0.0
		-18.4	-679.2	0.0	0.0	0.0	0.0
		-12.2	-687.5	0.0	0.0	0.0	0.0
		468.1	-522.0	0.0	0.0	0.0	0.0
		474.3	-530.3	0.0	0.0	0.0	0.0
		-89.7	-555.5	0.0	0.0	0.0	0.0
		-83.5	-563.8	0.0	0.0	0.0	0.0
Nodo	80	SX	SY	SZ	RX	RY	RZ
		88.3	872.5	0.0	0.0	0.0	0.0
		96.9	846.4	0.0	0.0	0.0	0.0
		-466.1	901.9	0.0	0.0	0.0	0.0
		-457.5	875.9	0.0	0.0	0.0	0.0
		-3.3	1165.4	0.0	0.0	0.0	0.0
		5.3	1139.4	0.0	0.0	0.0	0.0
		-557.7	1194.9	0.0	0.0	0.0	0.0
		-549.1	1168.9	0.0	0.0	0.0	0.0
		357.7	-298.0	0.0	0.0	0.0	0.0
		366.3	-324.0	0.0	0.0	0.0	0.0
		-196.7	-268.5	0.0	0.0	0.0	0.0
		-188.1	-294.5	0.0	0.0	0.0	0.0
		266.1	-5.0	0.0	0.0	0.0	0.0
		274.7	-31.1	0.0	0.0	0.0	0.0
		-288.3	24.4	0.0	0.0	0.0	0.0
		-279.7	-1.6	0.0	0.0	0.0	0.0
Nodo	81	SX	SY	SZ	RX	RY	RZ
		627.1	1917.1	0.0	0.0	0.0	0.0
		636.3	1878.2	0.0	0.0	0.0	0.0
		58.8	1957.9	0.0	0.0	0.0	0.0
		68.0	1919.0	0.0	0.0	0.0	0.0
		533.0	2352.9	0.0	0.0	0.0	0.0
		542.2	2314.1	0.0	0.0	0.0	0.0
		-35.4	2393.8	0.0	0.0	0.0	0.0
		-26.2	2354.9	0.0	0.0	0.0	0.0
		888.9	467.8	0.0	0.0	0.0	0.0
		898.1	429.0	0.0	0.0	0.0	0.0
		320.5	508.7	0.0	0.0	0.0	0.0
		329.7	469.8	0.0	0.0	0.0	0.0
		794.7	903.7	0.0	0.0	0.0	0.0
		803.9	864.8	0.0	0.0	0.0	0.0
		226.4	944.5	0.0	0.0	0.0	0.0
		235.6	905.7	0.0	0.0	0.0	0.0
Nodo	82	SX	SY	SZ	RX	RY	RZ
		298.3	1467.9	0.0	0.0	0.0	0.0
		312.9	1421.0	0.0	0.0	0.0	0.0
		-169.2	1415.0	0.0	0.0	0.0	0.0
		-154.6	1368.0	0.0	0.0	0.0	0.0
		162.1	1980.6	0.0	0.0	0.0	0.0
		176.7	1933.7	0.0	0.0	0.0	0.0
		-305.4	1927.7	0.0	0.0	0.0	0.0
		-290.8	1880.7	0.0	0.0	0.0	0.0
		724.7	-298.8	0.0	0.0	0.0	0.0
		739.3	-345.7	0.0	0.0	0.0	0.0
		257.2	-351.7	0.0	0.0	0.0	0.0
		271.8	-398.7	0.0	0.0	0.0	0.0
		588.5	213.9	0.0	0.0	0.0	0.0
		603.1	166.9	0.0	0.0	0.0	0.0
		121.0	161.0	0.0	0.0	0.0	0.0
		135.6	114.0	0.0	0.0	0.0	0.0
Nodo	83	SX	SY	SZ	RX	RY	RZ
		5570.8	1085.5	0.0	0.0	0.0	0.0
		5580.9	864.3	0.0	0.0	0.0	0.0
		4863.5	1237.0	0.0	0.0	0.0	0.0
		4873.6	1015.9	0.0	0.0	0.0	0.0
		5465.9	2990.7	0.0	0.0	0.0	0.0
		5476.0	2769.5	0.0	0.0	0.0	0.0
		4758.6	3142.3	0.0	0.0	0.0	0.0
		4768.7	2921.1	0.0	0.0	0.0	0.0
		5975.8	-6234.4	0.0	0.0	0.0	0.0
		5985.9	-6455.5	0.0	0.0	0.0	0.0
		5268.5	-6082.8	0.0	0.0	0.0	0.0
		5278.6	-6304.0	0.0	0.0	0.0	0.0
		5870.9	-4329.1	0.0	0.0	0.0	0.0
		5881.0	-4550.3	0.0	0.0	0.0	0.0
		5163.6	-4177.6	0.0	0.0	0.0	0.0
		5173.7	-4398.7	0.0	0.0	0.0	0.0

Nodo	84	SX	SY	SZ	RX	RY	RZ
		-3117.8	-3018.3	0.0	0.0	0.0	0.0
		-3121.0	-2973.8	0.0	0.0	0.0	0.0
		-3457.1	-3123.8	0.0	0.0	0.0	0.0
		-3460.3	-3079.3	0.0	0.0	0.0	0.0
		-3089.8	-3492.2	0.0	0.0	0.0	0.0
		-3093.0	-3447.7	0.0	0.0	0.0	0.0
		-3429.1	-3597.7	0.0	0.0	0.0	0.0
		-3432.3	-3553.2	0.0	0.0	0.0	0.0
		-2917.3	-5166.0	0.0	0.0	0.0	0.0
		-2920.5	-5121.5	0.0	0.0	0.0	0.0
		-3256.6	-5271.6	0.0	0.0	0.0	0.0
		-3259.8	-5227.0	0.0	0.0	0.0	0.0
		-2889.3	-5639.9	0.0	0.0	0.0	0.0
		-2892.5	-5595.4	0.0	0.0	0.0	0.0
		-3228.6	-5745.4	0.0	0.0	0.0	0.0
		-3231.8	-5700.9	0.0	0.0	0.0	0.0
Nodo	85	SX	SY	SZ	RX	RY	RZ
		3247.7	-1834.0	0.0	0.0	0.0	0.0
		3258.6	-1893.8	0.0	0.0	0.0	0.0
		2884.6	-2727.5	0.0	0.0	0.0	0.0
		2895.5	-2787.2	0.0	0.0	0.0	0.0
		3153.0	-1270.7	0.0	0.0	0.0	0.0
		3163.9	-1330.5	0.0	0.0	0.0	0.0
		2789.9	-2164.1	0.0	0.0	0.0	0.0
		2800.8	-2223.9	0.0	0.0	0.0	0.0
		3532.2	-4330.2	0.0	0.0	0.0	0.0
		3543.1	-4390.0	0.0	0.0	0.0	0.0
		3169.2	-5223.6	0.0	0.0	0.0	0.0
		3180.0	-5283.4	0.0	0.0	0.0	0.0
		3437.5	-3766.9	0.0	0.0	0.0	0.0
		3448.4	-3826.6	0.0	0.0	0.0	0.0
		3074.4	-4660.3	0.0	0.0	0.0	0.0
		3085.3	-4720.1	0.0	0.0	0.0	0.0
Nodo	86	SX	SY	SZ	RX	RY	RZ
		-4901.7	-553.8	0.0	0.0	0.0	0.0
		-4902.3	-441.2	0.0	0.0	0.0	0.0
		-5001.0	-969.2	0.0	0.0	0.0	0.0
		-5001.6	-856.7	0.0	0.0	0.0	0.0
		-4896.2	-1615.6	0.0	0.0	0.0	0.0
		-4896.8	-1503.1	0.0	0.0	0.0	0.0
		-4995.6	-2031.1	0.0	0.0	0.0	0.0
		-4996.2	-1918.5	0.0	0.0	0.0	0.0
		-4852.4	-5097.1	0.0	0.0	0.0	0.0
		-4853.0	-4984.5	0.0	0.0	0.0	0.0
		-4951.7	-5512.5	0.0	0.0	0.0	0.0
		-4952.3	-5400.0	0.0	0.0	0.0	0.0
		-4846.9	-6159.0	0.0	0.0	0.0	0.0
		-4847.6	-6046.4	0.0	0.0	0.0	0.0
		-4946.3	-6574.4	0.0	0.0	0.0	0.0
		-4946.9	-6461.8	0.0	0.0	0.0	0.0
Nodo	87	SX	SY	SZ	RX	RY	RZ
		4890.1	-409.4	0.0	0.0	0.0	0.0
		4895.5	-548.0	0.0	0.0	0.0	0.0
		4767.5	-1242.8	0.0	0.0	0.0	0.0
		4773.0	-1381.3	0.0	0.0	0.0	0.0
		4853.5	771.2	0.0	0.0	0.0	0.0
		4858.9	632.7	0.0	0.0	0.0	0.0
		4731.0	-62.1	0.0	0.0	0.0	0.0
		4736.4	-200.7	0.0	0.0	0.0	0.0
		5001.1	-5207.6	0.0	0.0	0.0	0.0
		5006.5	-5346.2	0.0	0.0	0.0	0.0
		4878.5	-6041.0	0.0	0.0	0.0	0.0
		4883.9	-6179.5	0.0	0.0	0.0	0.0
		4964.5	-4026.9	0.0	0.0	0.0	0.0
		4969.9	-4165.5	0.0	0.0	0.0	0.0
		4841.9	-4860.3	0.0	0.0	0.0	0.0
		4847.4	-4998.9	0.0	0.0	0.0	0.0
Nodo	88	SX	SY	SZ	RX	RY	RZ
		-5285.4	2982.1	0.0	0.0	0.0	0.0
		-5285.2	3103.0	0.0	0.0	0.0	0.0
		-5295.3	2268.3	0.0	0.0	0.0	0.0
		-5295.0	2389.2	0.0	0.0	0.0	0.0
		-5287.9	1864.8	0.0	0.0	0.0	0.0
		-5287.7	1985.7	0.0	0.0	0.0	0.0
		-5297.7	1151.0	0.0	0.0	0.0	0.0
		-5297.5	1271.9	0.0	0.0	0.0	0.0
		-5293.0	-1659.2	0.0	0.0	0.0	0.0
		-5292.7	-1538.3	0.0	0.0	0.0	0.0
		-5302.8	-2373.0	0.0	0.0	0.0	0.0
		-5302.6	-2252.0	0.0	0.0	0.0	0.0
		-5295.4	-2776.5	0.0	0.0	0.0	0.0
		-5295.2	-2655.5	0.0	0.0	0.0	0.0
		-5305.2	-3490.2	0.0	0.0	0.0	0.0

		-5305.0	-3369.3	0.0	0.0	0.0	0.0
Nodo	89	SX	SY	SZ	RX	RY	RZ
		5295.2	1798.1	0.0	0.0	0.0	0.0
		5299.0	1659.0	0.0	0.0	0.0	0.0
		5275.4	1344.8	0.0	0.0	0.0	0.0
		5279.2	1205.7	0.0	0.0	0.0	0.0
		5280.1	2956.2	0.0	0.0	0.0	0.0
		5283.9	2817.1	0.0	0.0	0.0	0.0
		5260.3	2502.9	0.0	0.0	0.0	0.0
		5264.1	2363.8	0.0	0.0	0.0	0.0
		5348.0	-2733.9	0.0	0.0	0.0	0.0
		5351.8	-2873.0	0.0	0.0	0.0	0.0
		5328.2	-3187.2	0.0	0.0	0.0	0.0
		5332.0	-3326.3	0.0	0.0	0.0	0.0
		5332.9	-1575.8	0.0	0.0	0.0	0.0
		5336.7	-1714.9	0.0	0.0	0.0	0.0
		5313.1	-2029.1	0.0	0.0	0.0	0.0
		5316.9	-2168.2	0.0	0.0	0.0	0.0
Nodo	90	SX	SY	SZ	RX	RY	RZ
		-4759.5	6040.9	0.0	0.0	0.0	0.0
		-4758.2	6141.8	0.0	0.0	0.0	0.0
		-4725.9	5058.9	0.0	0.0	0.0	0.0
		-4724.7	5159.7	0.0	0.0	0.0	0.0
		-4773.8	5122.6	0.0	0.0	0.0	0.0
		-4772.5	5223.4	0.0	0.0	0.0	0.0
		-4740.2	4140.5	0.0	0.0	0.0	0.0
		-4739.0	4241.3	0.0	0.0	0.0	0.0
		-4821.0	2436.5	0.0	0.0	0.0	0.0
		-4819.7	2537.3	0.0	0.0	0.0	0.0
		-4787.5	1454.4	0.0	0.0	0.0	0.0
		-4786.2	1555.2	0.0	0.0	0.0	0.0
		-4835.3	1518.1	0.0	0.0	0.0	0.0
		-4834.0	1618.9	0.0	0.0	0.0	0.0
		-4801.8	536.0	0.0	0.0	0.0	0.0
		-4800.5	636.8	0.0	0.0	0.0	0.0
Nodo	91	SX	SY	SZ	RX	RY	RZ
		4826.3	3371.4	0.0	0.0	0.0	0.0
		4830.8	3301.3	0.0	0.0	0.0	0.0
		4861.9	3301.5	0.0	0.0	0.0	0.0
		4866.4	3231.5	0.0	0.0	0.0	0.0
		4806.7	3919.3	0.0	0.0	0.0	0.0
		4811.2	3849.3	0.0	0.0	0.0	0.0
		4842.3	3849.5	0.0	0.0	0.0	0.0
		4846.8	3779.4	0.0	0.0	0.0	0.0
		4922.8	1409.8	0.0	0.0	0.0	0.0
		4927.3	1339.8	0.0	0.0	0.0	0.0
		4958.4	1340.0	0.0	0.0	0.0	0.0
		4962.9	1269.9	0.0	0.0	0.0	0.0
		4903.2	1957.8	0.0	0.0	0.0	0.0
		4907.7	1887.7	0.0	0.0	0.0	0.0
		4938.8	1887.9	0.0	0.0	0.0	0.0
		4943.3	1817.9	0.0	0.0	0.0	0.0
Nodo	92	SX	SY	SZ	RX	RY	RZ
		-2201.1	7059.7	0.0	0.0	0.0	0.0
		-2199.4	7094.4	0.0	0.0	0.0	0.0
		-2072.8	5977.5	0.0	0.0	0.0	0.0
		-2071.0	6012.2	0.0	0.0	0.0	0.0
		-2229.2	6745.8	0.0	0.0	0.0	0.0
		-2227.5	6780.5	0.0	0.0	0.0	0.0
		-2100.8	5663.5	0.0	0.0	0.0	0.0
		-2099.1	5698.2	0.0	0.0	0.0	0.0
		-2333.4	6090.6	0.0	0.0	0.0	0.0
		-2331.7	6125.3	0.0	0.0	0.0	0.0
		-2205.1	5008.4	0.0	0.0	0.0	0.0
		-2203.3	5043.1	0.0	0.0	0.0	0.0
		-2361.5	5776.7	0.0	0.0	0.0	0.0
		-2359.8	5811.4	0.0	0.0	0.0	0.0
		-2233.2	4694.5	0.0	0.0	0.0	0.0
		-2231.4	4729.2	0.0	0.0	0.0	0.0
Nodo	93	SX	SY	SZ	RX	RY	RZ
		2419.6	3606.6	0.0	0.0	0.0	0.0
		2425.6	3698.8	0.0	0.0	0.0	0.0
		2578.4	3963.0	0.0	0.0	0.0	0.0
		2584.5	4055.2	0.0	0.0	0.0	0.0
		2372.6	2783.2	0.0	0.0	0.0	0.0
		2378.7	2875.5	0.0	0.0	0.0	0.0
		2531.4	3139.6	0.0	0.0	0.0	0.0
		2537.5	3231.9	0.0	0.0	0.0	0.0
		2687.3	7204.6	0.0	0.0	0.0	0.0
		2693.4	7296.8	0.0	0.0	0.0	0.0
		2846.1	7561.0	0.0	0.0	0.0	0.0
		2852.2	7653.2	0.0	0.0	0.0	0.0
		2640.3	6381.2	0.0	0.0	0.0	0.0

		2646.4	6473.5	0.0	0.0	0.0	0.0
		2799.2	6737.6	0.0	0.0	0.0	0.0
		2805.2	6829.9	0.0	0.0	0.0	0.0
Nodo	94	SX	SY	SZ	RX	RY	RZ
		1000.7	3760.9	0.0	0.0	0.0	0.0
		1042.3	3801.6	0.0	0.0	0.0	0.0
		978.5	3177.0	0.0	0.0	0.0	0.0
		1020.1	3217.6	0.0	0.0	0.0	0.0
		683.5	3449.2	0.0	0.0	0.0	0.0
		725.1	3489.9	0.0	0.0	0.0	0.0
		661.3	2865.3	0.0	0.0	0.0	0.0
		702.9	2905.9	0.0	0.0	0.0	0.0
		-233.1	2522.8	0.0	0.0	0.0	0.0
		-191.5	2563.5	0.0	0.0	0.0	0.0
		-255.3	1938.9	0.0	0.0	0.0	0.0
		-213.7	1979.5	0.0	0.0	0.0	0.0
		-550.3	2211.2	0.0	0.0	0.0	0.0
		-508.7	2251.8	0.0	0.0	0.0	0.0
		-572.5	1627.2	0.0	0.0	0.0	0.0
		-530.9	1667.9	0.0	0.0	0.0	0.0
Nodo	95	SX	SY	SZ	RX	RY	RZ
		-1302.6	3006.9	0.0	0.0	0.0	0.0
		-1245.3	2999.8	0.0	0.0	0.0	0.0
		-1272.4	2899.2	0.0	0.0	0.0	0.0
		-1215.2	2892.1	0.0	0.0	0.0	0.0
		-1732.9	3052.5	0.0	0.0	0.0	0.0
		-1675.6	3045.4	0.0	0.0	0.0	0.0
		-1702.7	2944.8	0.0	0.0	0.0	0.0
		-1645.5	2937.7	0.0	0.0	0.0	0.0
		-3151.6	3233.8	0.0	0.0	0.0	0.0
		-3094.3	3226.7	0.0	0.0	0.0	0.0
		-3121.4	3126.2	0.0	0.0	0.0	0.0
		-3064.1	3119.1	0.0	0.0	0.0	0.0
		-3581.9	3279.4	0.0	0.0	0.0	0.0
		-3524.6	3272.3	0.0	0.0	0.0	0.0
		-3551.7	3171.8	0.0	0.0	0.0	0.0
		-3494.4	3164.7	0.0	0.0	0.0	0.0
Nodo	96	SX	SY	SZ	RX	RY	RZ
		2168.2	5613.3	0.0	0.0	0.0	0.0
		2255.7	5615.7	0.0	0.0	0.0	0.0
		1064.0	5597.8	0.0	0.0	0.0	0.0
		1151.6	5600.2	0.0	0.0	0.0	0.0
		1517.4	5560.7	0.0	0.0	0.0	0.0
		1604.9	5563.1	0.0	0.0	0.0	0.0
		413.2	5545.2	0.0	0.0	0.0	0.0
		500.8	5547.6	0.0	0.0	0.0	0.0
		215.9	5512.6	0.0	0.0	0.0	0.0
		303.5	5515.0	0.0	0.0	0.0	0.0
		-888.2	5497.1	0.0	0.0	0.0	0.0
		-800.6	5499.5	0.0	0.0	0.0	0.0
		-434.9	5460.0	0.0	0.0	0.0	0.0
		-347.3	5462.4	0.0	0.0	0.0	0.0
		-1539.0	5444.5	0.0	0.0	0.0	0.0
		-1451.4	5446.9	0.0	0.0	0.0	0.0
Nodo	97	SX	SY	SZ	RX	RY	RZ
		2236.0	4704.5	0.0	0.0	0.0	0.0
		2300.2	4719.6	0.0	0.0	0.0	0.0
		1124.3	4721.2	0.0	0.0	0.0	0.0
		1188.5	4736.3	0.0	0.0	0.0	0.0
		1825.9	4546.8	0.0	0.0	0.0	0.0
		1890.1	4561.9	0.0	0.0	0.0	0.0
		714.2	4563.5	0.0	0.0	0.0	0.0
		778.4	4578.6	0.0	0.0	0.0	0.0
		3458.6	4101.9	0.0	0.0	0.0	0.0
		3522.8	4117.0	0.0	0.0	0.0	0.0
		2346.9	4118.6	0.0	0.0	0.0	0.0
		2411.1	4133.7	0.0	0.0	0.0	0.0
		3048.5	3944.2	0.0	0.0	0.0	0.0
		3112.7	3959.3	0.0	0.0	0.0	0.0
		1936.8	3960.9	0.0	0.0	0.0	0.0
		2001.0	3976.0	0.0	0.0	0.0	0.0
Nodo	98	SX	SY	SZ	RX	RY	RZ
		999.2	7629.3	0.0	0.0	0.0	0.0
		1102.5	7694.9	0.0	0.0	0.0	0.0
		-1056.5	7459.5	0.0	0.0	0.0	0.0
		-953.2	7525.2	0.0	0.0	0.0	0.0
		273.2	6983.5	0.0	0.0	0.0	0.0
		376.5	7049.1	0.0	0.0	0.0	0.0
		-1782.4	6813.7	0.0	0.0	0.0	0.0
		-1679.2	6879.4	0.0	0.0	0.0	0.0
		3120.0	4776.8	0.0	0.0	0.0	0.0
		3223.3	4842.5	0.0	0.0	0.0	0.0
		1064.4	4607.1	0.0	0.0	0.0	0.0

		1167.6	4672.7	0.0	0.0	0.0	0.0
		2394.1	4131.0	0.0	0.0	0.0	0.0
		2497.3	4196.7	0.0	0.0	0.0	0.0
		338.4	3961.3	0.0	0.0	0.0	0.0
		441.7	4026.9	0.0	0.0	0.0	0.0
Nodo	99	SX	SY	SZ	RX	RY	RZ
		-475.6	3794.3	0.0	0.0	0.0	0.0
		-387.7	3806.3	0.0	0.0	0.0	0.0
		-2200.0	3764.7	0.0	0.0	0.0	0.0
		-2112.1	3776.7	0.0	0.0	0.0	0.0
		-1066.0	3672.3	0.0	0.0	0.0	0.0
		-978.1	3684.3	0.0	0.0	0.0	0.0
		-2790.4	3642.7	0.0	0.0	0.0	0.0
		-2702.5	3654.7	0.0	0.0	0.0	0.0
		1222.5	3234.7	0.0	0.0	0.0	0.0
		1310.4	3246.7	0.0	0.0	0.0	0.0
		-501.9	3205.1	0.0	0.0	0.0	0.0
		-414.0	3217.1	0.0	0.0	0.0	0.0
		632.0	3112.7	0.0	0.0	0.0	0.0
		719.9	3124.7	0.0	0.0	0.0	0.0
		-1092.4	3083.1	0.0	0.0	0.0	0.0
		-1004.4	3095.2	0.0	0.0	0.0	0.0
Nodo	100	SX	SY	SZ	RX	RY	RZ
		410.0	4696.0	0.0	0.0	0.0	0.0
		522.3	4701.6	0.0	0.0	0.0	0.0
		-1910.3	4680.5	0.0	0.0	0.0	0.0
		-1798.0	4686.0	0.0	0.0	0.0	0.0
		-370.3	4631.8	0.0	0.0	0.0	0.0
		-258.1	4637.4	0.0	0.0	0.0	0.0
		-2690.7	4616.3	0.0	0.0	0.0	0.0
		-2578.4	4621.9	0.0	0.0	0.0	0.0
		2679.5	4419.3	0.0	0.0	0.0	0.0
		2791.8	4424.9	0.0	0.0	0.0	0.0
		359.2	4403.8	0.0	0.0	0.0	0.0
		471.4	4409.4	0.0	0.0	0.0	0.0
		1899.1	4355.1	0.0	0.0	0.0	0.0
		2011.4	4360.7	0.0	0.0	0.0	0.0
		-421.2	4339.6	0.0	0.0	0.0	0.0
		-308.9	4345.2	0.0	0.0	0.0	0.0
Nodo	101	SX	SY	SZ	RX	RY	RZ
		1040.4	3592.1	0.0	0.0	0.0	0.0
		1144.3	3596.5	0.0	0.0	0.0	0.0
		-1175.2	3573.3	0.0	0.0	0.0	0.0
		-1071.4	3577.7	0.0	0.0	0.0	0.0
		339.5	3551.4	0.0	0.0	0.0	0.0
		443.4	3555.7	0.0	0.0	0.0	0.0
		-1876.2	3532.5	0.0	0.0	0.0	0.0
		-1772.3	3536.9	0.0	0.0	0.0	0.0
		3101.0	3323.2	0.0	0.0	0.0	0.0
		3204.9	3327.6	0.0	0.0	0.0	0.0
		885.3	3304.4	0.0	0.0	0.0	0.0
		989.2	3308.8	0.0	0.0	0.0	0.0
		2400.1	3282.5	0.0	0.0	0.0	0.0
		2504.0	3286.9	0.0	0.0	0.0	0.0
		184.4	3263.7	0.0	0.0	0.0	0.0
		288.3	3268.1	0.0	0.0	0.0	0.0
Nodo	102	SX	SY	SZ	RX	RY	RZ
		-959.7	8246.4	0.0	0.0	0.0	0.0
		-781.5	8287.1	0.0	0.0	0.0	0.0
		-4423.5	8504.7	0.0	0.0	0.0	0.0
		-4245.3	8545.4	0.0	0.0	0.0	0.0
		-2306.0	7861.8	0.0	0.0	0.0	0.0
		-2127.8	7902.5	0.0	0.0	0.0	0.0
		-5769.9	8120.1	0.0	0.0	0.0	0.0
		-5591.6	8160.8	0.0	0.0	0.0	0.0
		3061.4	5326.9	0.0	0.0	0.0	0.0
		3239.6	5367.6	0.0	0.0	0.0	0.0
		-402.5	5585.2	0.0	0.0	0.0	0.0
		-224.3	5625.9	0.0	0.0	0.0	0.0
		1715.1	4942.3	0.0	0.0	0.0	0.0
		1893.3	4983.1	0.0	0.0	0.0	0.0
		-1748.8	5200.6	0.0	0.0	0.0	0.0
		-1570.6	5241.4	0.0	0.0	0.0	0.0
Nodo	103	SX	SY	SZ	RX	RY	RZ
		1555.8	3806.8	0.0	0.0	0.0	0.0
		1746.6	3804.9	0.0	0.0	0.0	0.0
		-1795.7	3751.3	0.0	0.0	0.0	0.0
		-1604.9	3749.3	0.0	0.0	0.0	0.0
		81.8	3821.9	0.0	0.0	0.0	0.0
		272.6	3820.0	0.0	0.0	0.0	0.0
		-3269.7	3766.3	0.0	0.0	0.0	0.0
		-3078.9	3764.4	0.0	0.0	0.0	0.0
		-3283.2	3759.9	0.0	0.0	0.0	0.0



		-3092.4	3758.0	0.0	0.0	0.0	0.0
		-6634.7	3704.3	0.0	0.0	0.0	0.0
		-6443.9	3702.4	0.0	0.0	0.0	0.0
		-4757.2	3775.0	0.0	0.0	0.0	0.0
		-4566.4	3773.1	0.0	0.0	0.0	0.0
		-8108.7	3719.4	0.0	0.0	0.0	0.0
		-7917.9	3717.5	0.0	0.0	0.0	0.0
Nodo	104	SX	SY	SZ	RX	RY	RZ
		2887.5	4832.8	0.0	0.0	0.0	0.0
		3101.4	4826.8	0.0	0.0	0.0	0.0
		-907.6	4861.9	0.0	0.0	0.0	0.0
		-693.8	4856.0	0.0	0.0	0.0	0.0
		1211.1	4876.6	0.0	0.0	0.0	0.0
		1425.0	4870.7	0.0	0.0	0.0	0.0
		-2584.0	4905.8	0.0	0.0	0.0	0.0
		-2370.2	4899.8	0.0	0.0	0.0	0.0
		-2688.1	5314.9	0.0	0.0	0.0	0.0
		-2474.3	5308.9	0.0	0.0	0.0	0.0
		-6483.3	5344.0	0.0	0.0	0.0	0.0
		-6269.4	5338.1	0.0	0.0	0.0	0.0
		-4364.5	5358.7	0.0	0.0	0.0	0.0
		-4150.7	5352.8	0.0	0.0	0.0	0.0
		-8159.7	5387.9	0.0	0.0	0.0	0.0
		-7945.8	5381.9	0.0	0.0	0.0	0.0
Nodo	105	SX	SY	SZ	RX	RY	RZ
		302.0	2977.3	0.0	0.0	0.0	0.0
		326.1	2954.4	0.0	0.0	0.0	0.0
		373.5	3160.7	0.0	0.0	0.0	0.0
		397.5	3137.8	0.0	0.0	0.0	0.0
		273.5	3186.4	0.0	0.0	0.0	0.0
		297.6	3163.5	0.0	0.0	0.0	0.0
		345.0	3369.7	0.0	0.0	0.0	0.0
		369.0	3346.9	0.0	0.0	0.0	0.0
		-1575.4	4805.5	0.0	0.0	0.0	0.0
		-1551.3	4782.6	0.0	0.0	0.0	0.0
		-1503.9	4988.9	0.0	0.0	0.0	0.0
		-1479.9	4966.0	0.0	0.0	0.0	0.0
		-1603.9	5014.6	0.0	0.0	0.0	0.0
		-1579.8	4991.7	0.0	0.0	0.0	0.0
		-1532.4	5198.0	0.0	0.0	0.0	0.0
		-1508.4	5175.1	0.0	0.0	0.0	0.0
Nodo	106	SX	SY	SZ	RX	RY	RZ
		-270.7	-2852.1	0.0	0.0	0.0	0.0
		-346.3	-2940.7	0.0	0.0	0.0	0.0
		1633.9	-1804.3	0.0	0.0	0.0	0.0
		1558.4	-1892.9	0.0	0.0	0.0	0.0
		496.5	-1981.4	0.0	0.0	0.0	0.0
		421.0	-2070.0	0.0	0.0	0.0	0.0
		2401.2	-933.6	0.0	0.0	0.0	0.0
		2325.6	-1022.2	0.0	0.0	0.0	0.0
		-2650.3	5287.5	0.0	0.0	0.0	0.0
		-2725.9	5198.9	0.0	0.0	0.0	0.0
		-745.7	6335.3	0.0	0.0	0.0	0.0
		-821.3	6246.7	0.0	0.0	0.0	0.0
		-1883.1	6158.2	0.0	0.0	0.0	0.0
		-1958.7	6069.6	0.0	0.0	0.0	0.0
		21.5	7206.1	0.0	0.0	0.0	0.0
		-54.0	7117.5	0.0	0.0	0.0	0.0
Nodo	107	SX	SY	SZ	RX	RY	RZ
		-8118.5	4220.9	0.0	0.0	0.0	0.0
		-8342.0	4338.0	0.0	0.0	0.0	0.0
		-3834.8	2791.2	0.0	0.0	0.0	0.0
		-4058.3	2908.2	0.0	0.0	0.0	0.0
		-6106.9	3110.2	0.0	0.0	0.0	0.0
		-6330.4	3227.2	0.0	0.0	0.0	0.0
		-1823.2	1680.4	0.0	0.0	0.0	0.0
		-2046.7	1797.5	0.0	0.0	0.0	0.0
		-1933.7	-5567.4	0.0	0.0	0.0	0.0
		-2157.2	-5450.3	0.0	0.0	0.0	0.0
		2350.0	-6997.1	0.0	0.0	0.0	0.0
		2126.5	-6880.0	0.0	0.0	0.0	0.0
		77.9	-6678.1	0.0	0.0	0.0	0.0
		-145.6	-6561.1	0.0	0.0	0.0	0.0
		4361.6	-8107.8	0.0	0.0	0.0	0.0
		4138.1	-7990.8	0.0	0.0	0.0	0.0
Nodo	108	SX	SY	SZ	RX	RY	RZ
		-10115.7	4680.9	0.0	0.0	0.0	0.0
		-10256.5	4720.9	0.0	0.0	0.0	0.0
		-7466.8	4524.9	0.0	0.0	0.0	0.0
		-7607.5	4565.0	0.0	0.0	0.0	0.0
		-8696.0	4278.7	0.0	0.0	0.0	0.0
		-8836.7	4318.7	0.0	0.0	0.0	0.0
		-6047.0	4122.7	0.0	0.0	0.0	0.0

		-6187.8	4162.8	0.0	0.0	0.0	0.0
		-5172.8	-1730.3	0.0	0.0	0.0	0.0
		-5313.6	-1690.2	0.0	0.0	0.0	0.0
		-2523.9	-1886.2	0.0	0.0	0.0	0.0
		-2664.6	-1846.1	0.0	0.0	0.0	0.0
		-3753.1	-2132.5	0.0	0.0	0.0	0.0
		-3893.8	-2092.4	0.0	0.0	0.0	0.0
		-1104.1	-2288.4	0.0	0.0	0.0	0.0
		-1244.9	-2248.3	0.0	0.0	0.0	0.0
Nodo	109	SX	SY	SZ	RX	RY	RZ
		552.6	510.7	0.0	0.0	0.0	0.0
		545.4	516.6	0.0	0.0	0.0	0.0
		670.9	418.7	0.0	0.0	0.0	0.0
		663.7	424.5	0.0	0.0	0.0	0.0
		692.2	473.9	0.0	0.0	0.0	0.0
		685.0	479.8	0.0	0.0	0.0	0.0
		810.5	381.9	0.0	0.0	0.0	0.0
		803.4	387.8	0.0	0.0	0.0	0.0
		100.6	358.7	0.0	0.0	0.0	0.0
		93.4	364.6	0.0	0.0	0.0	0.0
		218.9	266.7	0.0	0.0	0.0	0.0
		211.7	272.6	0.0	0.0	0.0	0.0
		240.2	321.9	0.0	0.0	0.0	0.0
		233.1	327.8	0.0	0.0	0.0	0.0
		358.6	229.9	0.0	0.0	0.0	0.0
		351.4	235.8	0.0	0.0	0.0	0.0
Nodo	110	SX	SY	SZ	RX	RY	RZ
		2198.5	457.8	0.0	0.0	0.0	0.0
		2190.0	482.1	0.0	0.0	0.0	0.0
		2168.7	197.3	0.0	0.0	0.0	0.0
		2160.2	221.5	0.0	0.0	0.0	0.0
		2291.3	315.5	0.0	0.0	0.0	0.0
		2282.8	339.8	0.0	0.0	0.0	0.0
		2261.5	54.9	0.0	0.0	0.0	0.0
		2253.0	79.2	0.0	0.0	0.0	0.0
		1485.9	-101.4	0.0	0.0	0.0	0.0
		1477.4	-77.1	0.0	0.0	0.0	0.0
		1456.1	-362.0	0.0	0.0	0.0	0.0
		1447.6	-337.7	0.0	0.0	0.0	0.0
		1578.7	-243.7	0.0	0.0	0.0	0.0
		1570.2	-219.4	0.0	0.0	0.0	0.0
		1548.9	-504.3	0.0	0.0	0.0	0.0
		1540.4	-480.0	0.0	0.0	0.0	0.0
Nodo	111	SX	SY	SZ	RX	RY	RZ
		4573.2	7219.7	0.0	0.0	0.0	0.0
		4569.5	7272.4	0.0	0.0	0.0	0.0
		4027.7	6144.4	0.0	0.0	0.0	0.0
		4024.0	6197.1	0.0	0.0	0.0	0.0
		4693.8	6932.0	0.0	0.0	0.0	0.0
		4690.2	6984.7	0.0	0.0	0.0	0.0
		4148.3	5856.7	0.0	0.0	0.0	0.0
		4144.6	5909.4	0.0	0.0	0.0	0.0
		3257.9	3908.9	0.0	0.0	0.0	0.0
		3254.3	3961.6	0.0	0.0	0.0	0.0
		2712.4	2833.6	0.0	0.0	0.0	0.0
		2708.8	2886.3	0.0	0.0	0.0	0.0
		3378.5	3621.2	0.0	0.0	0.0	0.0
		3374.9	3673.9	0.0	0.0	0.0	0.0
		2833.0	2545.9	0.0	0.0	0.0	0.0
		2829.4	2598.6	0.0	0.0	0.0	0.0
Nodo	112	SX	SY	SZ	RX	RY	RZ
		3088.6	-19755.9	0.0	0.0	0.0	0.0
		3051.7	-20028.8	0.0	0.0	0.0	0.0
		3211.7	-15584.7	0.0	0.0	0.0	0.0
		3174.7	-15857.7	0.0	0.0	0.0	0.0
		3341.4	-18097.5	0.0	0.0	0.0	0.0
		3304.5	-18370.4	0.0	0.0	0.0	0.0
		3464.5	-13926.3	0.0	0.0	0.0	0.0
		3427.5	-14199.3	0.0	0.0	0.0	0.0
		1668.8	-11385.6	0.0	0.0	0.0	0.0
		1631.8	-11658.6	0.0	0.0	0.0	0.0
		1791.8	-7214.4	0.0	0.0	0.0	0.0
		1754.9	-7487.4	0.0	0.0	0.0	0.0
		1921.6	-9727.2	0.0	0.0	0.0	0.0
		1884.6	-10000.2	0.0	0.0	0.0	0.0
		2044.6	-5556.0	0.0	0.0	0.0	0.0
		2007.7	-5829.0	0.0	0.0	0.0	0.0
Nodo	113	SX	SY	SZ	RX	RY	RZ
		-3382.4	18354.2	0.0	0.0	0.0	0.0
		-3438.4	18582.2	0.0	0.0	0.0	0.0
		-2362.1	14939.6	0.0	0.0	0.0	0.0
		-2418.1	15167.6	0.0	0.0	0.0	0.0
		-2923.2	16960.5	0.0	0.0	0.0	0.0

	-2979.3	17188.5	0.0	0.0	0.0	0.0
	-1902.9	13545.9	0.0	0.0	0.0	0.0
	-1958.9	13773.9	0.0	0.0	0.0	0.0
	-1961.4	10417.9	0.0	0.0	0.0	0.0
	-2017.4	10645.9	0.0	0.0	0.0	0.0
	-941.0	7003.4	0.0	0.0	0.0	0.0
	-997.0	7231.4	0.0	0.0	0.0	0.0
	-1502.2	9024.3	0.0	0.0	0.0	0.0
	-1558.2	9252.3	0.0	0.0	0.0	0.0
	-481.8	5609.7	0.0	0.0	0.0	0.0
	-537.8	5837.7	0.0	0.0	0.0	0.0
Nodo 114	SX	SY	SZ	RX	RY	RZ
	801.5	4135.0	0.0	0.0	0.0	0.0
	776.1	4136.3	0.0	0.0	0.0	0.0
	885.3	4046.1	0.0	0.0	0.0	0.0
	860.0	4047.3	0.0	0.0	0.0	0.0
	1154.3	4091.0	0.0	0.0	0.0	0.0
	1128.9	4092.3	0.0	0.0	0.0	0.0
	1238.2	4002.0	0.0	0.0	0.0	0.0
	1212.8	4003.3	0.0	0.0	0.0	0.0
	2219.5	4249.4	0.0	0.0	0.0	0.0
	2194.2	4250.7	0.0	0.0	0.0	0.0
	2303.4	4160.5	0.0	0.0	0.0	0.0
	2278.0	4161.7	0.0	0.0	0.0	0.0
	2572.4	4205.4	0.0	0.0	0.0	0.0
	2547.0	4206.6	0.0	0.0	0.0	0.0
	2656.2	4116.4	0.0	0.0	0.0	0.0
	2630.8	4117.7	0.0	0.0	0.0	0.0
Nodo 115	SX	SY	SZ	RX	RY	RZ
	3846.3	4944.0	0.0	0.0	0.0	0.0
	3916.1	4943.0	0.0	0.0	0.0	0.0
	2318.6	4947.4	0.0	0.0	0.0	0.0
	2388.4	4946.3	0.0	0.0	0.0	0.0
	3442.1	4949.6	0.0	0.0	0.0	0.0
	3511.9	4948.5	0.0	0.0	0.0	0.0
	1914.4	4952.9	0.0	0.0	0.0	0.0
	1984.2	4951.8	0.0	0.0	0.0	0.0
	6390.9	4939.6	0.0	0.0	0.0	0.0
	6460.7	4938.5	0.0	0.0	0.0	0.0
	4863.2	4943.0	0.0	0.0	0.0	0.0
	4933.0	4941.9	0.0	0.0	0.0	0.0
	5986.7	4945.1	0.0	0.0	0.0	0.0
	6056.5	4944.1	0.0	0.0	0.0	0.0
	4459.0	4948.5	0.0	0.0	0.0	0.0
	4528.8	4947.4	0.0	0.0	0.0	0.0
Nodo 116	SX	SY	SZ	RX	RY	RZ
	4406.9	3679.9	0.0	0.0	0.0	0.0
	4462.4	3676.6	0.0	0.0	0.0	0.0
	3190.6	3733.7	0.0	0.0	0.0	0.0
	3246.2	3730.4	0.0	0.0	0.0	0.0
	4133.8	3713.1	0.0	0.0	0.0	0.0
	4189.3	3709.7	0.0	0.0	0.0	0.0
	2917.5	3766.9	0.0	0.0	0.0	0.0
	2973.1	3763.6	0.0	0.0	0.0	0.0
	6545.5	3420.0	0.0	0.0	0.0	0.0
	6601.0	3416.6	0.0	0.0	0.0	0.0
	5329.3	3473.8	0.0	0.0	0.0	0.0
	5384.8	3470.4	0.0	0.0	0.0	0.0
	6272.4	3453.1	0.0	0.0	0.0	0.0
	6328.0	3449.8	0.0	0.0	0.0	0.0
	5056.2	3507.0	0.0	0.0	0.0	0.0
	5111.7	3503.6	0.0	0.0	0.0	0.0
Nodo 117	SX	SY	SZ	RX	RY	RZ
	2884.3	6364.7	0.0	0.0	0.0	0.0
	2944.4	6327.7	0.0	0.0	0.0	0.0
	1293.0	6444.3	0.0	0.0	0.0	0.0
	1353.1	6407.3	0.0	0.0	0.0	0.0
	2584.6	6710.1	0.0	0.0	0.0	0.0
	2644.7	6673.1	0.0	0.0	0.0	0.0
	993.3	6789.7	0.0	0.0	0.0	0.0
	1053.4	6752.6	0.0	0.0	0.0	0.0
	4208.9	3811.8	0.0	0.0	0.0	0.0
	4269.0	3774.8	0.0	0.0	0.0	0.0
	2617.6	3891.4	0.0	0.0	0.0	0.0
	2677.7	3854.3	0.0	0.0	0.0	0.0
	3909.2	4157.2	0.0	0.0	0.0	0.0
	3969.3	4120.2	0.0	0.0	0.0	0.0
	2317.9	4236.8	0.0	0.0	0.0	0.0
	2378.0	4199.7	0.0	0.0	0.0	0.0
Nodo 118	SX	SY	SZ	RX	RY	RZ
	686.9	3525.4	0.0	0.0	0.0	0.0
	698.3	3520.5	0.0	0.0	0.0	0.0
	-68.0	3534.7	0.0	0.0	0.0	0.0

		-56.6	3529.7	0.0	0.0	0.0	0.0
		798.0	3576.5	0.0	0.0	0.0	0.0
		809.4	3571.6	0.0	0.0	0.0	0.0
		43.0	3585.7	0.0	0.0	0.0	0.0
		54.5	3580.8	0.0	0.0	0.0	0.0
		253.9	3234.4	0.0	0.0	0.0	0.0
		265.3	3229.5	0.0	0.0	0.0	0.0
		-501.0	3243.7	0.0	0.0	0.0	0.0
		-489.6	3238.7	0.0	0.0	0.0	0.0
		365.0	3285.5	0.0	0.0	0.0	0.0
		376.4	3280.5	0.0	0.0	0.0	0.0
		-390.0	3294.7	0.0	0.0	0.0	0.0
		-378.6	3289.8	0.0	0.0	0.0	0.0
Nodo	119	SX	SY	SZ	RX	RY	RZ
		1327.4	4585.1	0.0	0.0	0.0	0.0
		1356.3	4582.0	0.0	0.0	0.0	0.0
		209.3	4596.3	0.0	0.0	0.0	0.0
		238.2	4593.2	0.0	0.0	0.0	0.0
		1279.9	4623.5	0.0	0.0	0.0	0.0
		1308.8	4620.4	0.0	0.0	0.0	0.0
		161.8	4634.7	0.0	0.0	0.0	0.0
		190.7	4631.6	0.0	0.0	0.0	0.0
		1052.6	4402.0	0.0	0.0	0.0	0.0
		1081.5	4398.9	0.0	0.0	0.0	0.0
		-65.5	4413.2	0.0	0.0	0.0	0.0
		-36.6	4410.1	0.0	0.0	0.0	0.0
		1005.1	4440.4	0.0	0.0	0.0	0.0
		1034.0	4437.3	0.0	0.0	0.0	0.0
		-113.0	4451.6	0.0	0.0	0.0	0.0
		-84.1	4448.5	0.0	0.0	0.0	0.0
Nodo	120	SX	SY	SZ	RX	RY	RZ
		1788.0	3176.5	0.0	0.0	0.0	0.0
		1809.5	3175.9	0.0	0.0	0.0	0.0
		784.7	3204.5	0.0	0.0	0.0	0.0
		806.2	3204.0	0.0	0.0	0.0	0.0
		1780.0	3197.1	0.0	0.0	0.0	0.0
		1801.5	3196.6	0.0	0.0	0.0	0.0
		776.7	3225.2	0.0	0.0	0.0	0.0
		798.2	3224.6	0.0	0.0	0.0	0.0
		1420.8	3083.1	0.0	0.0	0.0	0.0
		1442.3	3082.5	0.0	0.0	0.0	0.0
		417.5	3111.1	0.0	0.0	0.0	0.0
		439.0	3110.6	0.0	0.0	0.0	0.0
		1412.8	3103.7	0.0	0.0	0.0	0.0
		1434.3	3103.2	0.0	0.0	0.0	0.0
		409.5	3131.8	0.0	0.0	0.0	0.0
		431.0	3131.2	0.0	0.0	0.0	0.0
Nodo	121	SX	SY	SZ	RX	RY	RZ
		643.0	6209.3	0.0	0.0	0.0	0.0
		677.1	6154.5	0.0	0.0	0.0	0.0
		-913.5	6292.2	0.0	0.0	0.0	0.0
		-879.5	6237.4	0.0	0.0	0.0	0.0
		526.8	6746.6	0.0	0.0	0.0	0.0
		560.9	6691.8	0.0	0.0	0.0	0.0
		-1029.7	6829.5	0.0	0.0	0.0	0.0
		-995.6	6774.7	0.0	0.0	0.0	0.0
		-441.1	3584.5	0.0	0.0	0.0	0.0
		-407.0	3529.7	0.0	0.0	0.0	0.0
		-1997.6	3667.4	0.0	0.0	0.0	0.0
		-1963.5	3612.6	0.0	0.0	0.0	0.0
		-557.2	4121.8	0.0	0.0	0.0	0.0
		-523.1	4067.0	0.0	0.0	0.0	0.0
		-2113.7	4204.7	0.0	0.0	0.0	0.0
		-2079.7	4149.9	0.0	0.0	0.0	0.0
Nodo	122	SX	SY	SZ	RX	RY	RZ
		-626.6	3661.1	0.0	0.0	0.0	0.0
		-613.7	3659.4	0.0	0.0	0.0	0.0
		-1913.5	3645.0	0.0	0.0	0.0	0.0
		-1900.6	3643.3	0.0	0.0	0.0	0.0
		-557.7	3679.4	0.0	0.0	0.0	0.0
		-544.9	3677.7	0.0	0.0	0.0	0.0
		-1844.6	3663.3	0.0	0.0	0.0	0.0
		-1831.7	3661.5	0.0	0.0	0.0	0.0
		-2327.1	3584.2	0.0	0.0	0.0	0.0
		-2314.2	3582.5	0.0	0.0	0.0	0.0
		-3614.0	3568.1	0.0	0.0	0.0	0.0
		-3601.1	3566.4	0.0	0.0	0.0	0.0
		-2258.3	3602.5	0.0	0.0	0.0	0.0
		-2245.4	3600.7	0.0	0.0	0.0	0.0
		-3545.1	3586.3	0.0	0.0	0.0	0.0
		-3532.3	3584.6	0.0	0.0	0.0	0.0
Nodo	123	SX	SY	SZ	RX	RY	RZ
		1465.8	5130.1	0.0	0.0	0.0	0.0

1506.7	5127.3	0.0	0.0	0.0	0.0
-93.5	5136.3	0.0	0.0	0.0	0.0
-52.7	5133.4	0.0	0.0	0.0	0.0
1285.1	5154.4	0.0	0.0	0.0	0.0
1325.9	5151.5	0.0	0.0	0.0	0.0
-274.3	5160.6	0.0	0.0	0.0	0.0
-233.5	5157.7	0.0	0.0	0.0	0.0
67.8	5003.4	0.0	0.0	0.0	0.0
108.6	5000.6	0.0	0.0	0.0	0.0
-1491.6	5009.6	0.0	0.0	0.0	0.0
-1450.7	5006.7	0.0	0.0	0.0	0.0
-113.0	5027.7	0.0	0.0	0.0	0.0
-72.1	5024.8	0.0	0.0	0.0	0.0
-1672.3	5033.9	0.0	0.0	0.0	0.0
-1631.5	5031.0	0.0	0.0	0.0	0.0

Nodo	124	SX	SY	SZ	RX	RY	RZ
		2991.5	3399.2	0.0	0.0	0.0	0.0
		3034.1	3399.0	0.0	0.0	0.0	0.0
		1639.1	3434.4	0.0	0.0	0.0	0.0
		1681.6	3434.2	0.0	0.0	0.0	0.0
		2750.7	3418.2	0.0	0.0	0.0	0.0
		2793.2	3418.0	0.0	0.0	0.0	0.0
		1398.2	3453.4	0.0	0.0	0.0	0.0
		1440.8	3453.2	0.0	0.0	0.0	0.0
		1857.2	3357.1	0.0	0.0	0.0	0.0
		1899.8	3356.9	0.0	0.0	0.0	0.0
		504.8	3392.3	0.0	0.0	0.0	0.0
		547.3	3392.1	0.0	0.0	0.0	0.0
		1616.4	3376.1	0.0	0.0	0.0	0.0
		1658.9	3375.9	0.0	0.0	0.0	0.0
		263.9	3411.3	0.0	0.0	0.0	0.0
		306.5	3411.1	0.0	0.0	0.0	0.0

Nodo	125	SX	SY	SZ	RX	RY	RZ
		1349.8	5228.2	0.0	0.0	0.0	0.0
		1415.9	5160.4	0.0	0.0	0.0	0.0
		-315.2	5400.8	0.0	0.0	0.0	0.0
		-249.1	5333.0	0.0	0.0	0.0	0.0
		892.4	5921.3	0.0	0.0	0.0	0.0
		958.4	5853.5	0.0	0.0	0.0	0.0
		-772.7	6093.9	0.0	0.0	0.0	0.0
		-706.6	6026.1	0.0	0.0	0.0	0.0
		-236.5	2648.5	0.0	0.0	0.0	0.0
		-170.4	2580.7	0.0	0.0	0.0	0.0
		-1901.5	2821.1	0.0	0.0	0.0	0.0
		-1835.4	2753.3	0.0	0.0	0.0	0.0
		-694.0	3341.6	0.0	0.0	0.0	0.0
		-627.9	3273.8	0.0	0.0	0.0	0.0
		-2359.0	3514.1	0.0	0.0	0.0	0.0
		-2292.9	3446.3	0.0	0.0	0.0	0.0

Nodo	126	SX	SY	SZ	RX	RY	RZ
		-1158.0	3444.7	0.0	0.0	0.0	0.0
		-1098.2	3443.1	0.0	0.0	0.0	0.0
		-2343.8	3436.5	0.0	0.0	0.0	0.0
		-2284.0	3434.9	0.0	0.0	0.0	0.0
		-1557.8	3474.3	0.0	0.0	0.0	0.0
		-1498.1	3472.7	0.0	0.0	0.0	0.0
		-2743.7	3466.1	0.0	0.0	0.0	0.0
		-2683.9	3464.5	0.0	0.0	0.0	0.0
		-2540.0	3410.7	0.0	0.0	0.0	0.0
		-2480.2	3409.1	0.0	0.0	0.0	0.0
		-3725.9	3402.5	0.0	0.0	0.0	0.0
		-3666.1	3401.0	0.0	0.0	0.0	0.0
		-2939.9	3440.4	0.0	0.0	0.0	0.0
		-2880.1	3438.8	0.0	0.0	0.0	0.0
		-4125.8	3432.2	0.0	0.0	0.0	0.0
		-4066.0	3430.6	0.0	0.0	0.0	0.0

Nodo	127	SX	SY	SZ	RX	RY	RZ
		-1325.0	5218.8	0.0	0.0	0.0	0.0
		-1211.2	5211.1	0.0	0.0	0.0	0.0
		-2639.8	5227.2	0.0	0.0	0.0	0.0
		-2526.0	5219.4	0.0	0.0	0.0	0.0
		-2198.1	5287.9	0.0	0.0	0.0	0.0
		-2084.3	5280.1	0.0	0.0	0.0	0.0
		-3513.0	5296.3	0.0	0.0	0.0	0.0
		-3399.2	5288.5	0.0	0.0	0.0	0.0
		1481.5	4952.1	0.0	0.0	0.0	0.0
		1595.4	4944.3	0.0	0.0	0.0	0.0
		166.7	4960.4	0.0	0.0	0.0	0.0
		280.5	4952.7	0.0	0.0	0.0	0.0
		608.4	5021.1	0.0	0.0	0.0	0.0
		722.2	5013.4	0.0	0.0	0.0	0.0
		-706.4	5029.5	0.0	0.0	0.0	0.0
		-592.6	5021.8	0.0	0.0	0.0	0.0

Nodo	128	SX	SY	SZ	RX	RY	RZ
		221.1	3820.4	0.0	0.0	0.0	0.0
		335.5	3806.2	0.0	0.0	0.0	0.0
		-450.5	3839.5	0.0	0.0	0.0	0.0
		-336.1	3825.3	0.0	0.0	0.0	0.0
		-705.5	3963.6	0.0	0.0	0.0	0.0
		-591.1	3949.4	0.0	0.0	0.0	0.0
		-1377.1	3982.7	0.0	0.0	0.0	0.0
		-1262.7	3968.5	0.0	0.0	0.0	0.0
		3421.5	3325.8	0.0	0.0	0.0	0.0
		3535.9	3311.6	0.0	0.0	0.0	0.0
		2749.8	3344.9	0.0	0.0	0.0	0.0
		2864.2	3330.7	0.0	0.0	0.0	0.0
		2494.9	3469.0	0.0	0.0	0.0	0.0
		2609.3	3454.8	0.0	0.0	0.0	0.0
		1823.2	3488.1	0.0	0.0	0.0	0.0
		1937.6	3473.9	0.0	0.0	0.0	0.0
Nodo	129	SX	SY	SZ	RX	RY	RZ
		-447.7	5058.4	0.0	0.0	0.0	0.0
		-352.2	4990.9	0.0	0.0	0.0	0.0
		-735.0	5378.0	0.0	0.0	0.0	0.0
		-639.5	5310.5	0.0	0.0	0.0	0.0
		-1205.3	5750.7	0.0	0.0	0.0	0.0
		-1109.8	5683.2	0.0	0.0	0.0	0.0
		-1492.6	6070.2	0.0	0.0	0.0	0.0
		-1397.1	6002.7	0.0	0.0	0.0	0.0
		2113.2	2833.5	0.0	0.0	0.0	0.0
		2208.7	2766.0	0.0	0.0	0.0	0.0
		1825.9	3153.1	0.0	0.0	0.0	0.0
		1921.4	3085.6	0.0	0.0	0.0	0.0
		1355.6	3525.8	0.0	0.0	0.0	0.0
		1451.1	3458.3	0.0	0.0	0.0	0.0
		1068.2	3845.4	0.0	0.0	0.0	0.0
		1163.7	3777.9	0.0	0.0	0.0	0.0
Nodo	130	SX	SY	SZ	RX	RY	RZ
		-1754.5	3553.9	0.0	0.0	0.0	0.0
		-1709.5	3541.0	0.0	0.0	0.0	0.0
		-441.1	3546.7	0.0	0.0	0.0	0.0
		-396.0	3533.8	0.0	0.0	0.0	0.0
		-2069.3	3682.8	0.0	0.0	0.0	0.0
		-2024.3	3669.9	0.0	0.0	0.0	0.0
		-755.9	3675.6	0.0	0.0	0.0	0.0
		-710.9	3662.7	0.0	0.0	0.0	0.0
		-228.6	3146.1	0.0	0.0	0.0	0.0
		-183.6	3133.2	0.0	0.0	0.0	0.0
		1084.8	3138.9	0.0	0.0	0.0	0.0
		1129.9	3126.0	0.0	0.0	0.0	0.0
		-543.4	3275.0	0.0	0.0	0.0	0.0
		-498.4	3262.1	0.0	0.0	0.0	0.0
		770.0	3267.8	0.0	0.0	0.0	0.0
		815.0	3254.9	0.0	0.0	0.0	0.0
Nodo	131	SX	SY	SZ	RX	RY	RZ
		-1763.0	2806.1	0.0	0.0	0.0	0.0
		-1691.5	2807.5	0.0	0.0	0.0	0.0
		364.1	2944.8	0.0	0.0	0.0	0.0
		435.6	2946.2	0.0	0.0	0.0	0.0
		-2319.7	2783.7	0.0	0.0	0.0	0.0
		-2248.1	2785.1	0.0	0.0	0.0	0.0
		-192.6	2922.4	0.0	0.0	0.0	0.0
		-121.0	2923.8	0.0	0.0	0.0	0.0
		1281.4	2916.6	0.0	0.0	0.0	0.0
		1353.0	2918.1	0.0	0.0	0.0	0.0
		3408.5	3055.3	0.0	0.0	0.0	0.0
		3480.1	3056.7	0.0	0.0	0.0	0.0
		724.8	2894.3	0.0	0.0	0.0	0.0
		796.3	2895.7	0.0	0.0	0.0	0.0
		2851.9	3032.9	0.0	0.0	0.0	0.0
		2923.4	3034.3	0.0	0.0	0.0	0.0
Nodo	132	SX	SY	SZ	RX	RY	RZ
		-2212.0	2769.4	0.0	0.0	0.0	0.0
		-2179.7	2801.4	0.0	0.0	0.0	0.0
		-1244.4	2889.5	0.0	0.0	0.0	0.0
		-1212.2	2921.5	0.0	0.0	0.0	0.0
		-2482.6	2448.9	0.0	0.0	0.0	0.0
		-2450.3	2480.9	0.0	0.0	0.0	0.0
		-1515.0	2569.0	0.0	0.0	0.0	0.0
		-1482.8	2601.0	0.0	0.0	0.0	0.0
		-917.1	4205.3	0.0	0.0	0.0	0.0
		-884.9	4237.3	0.0	0.0	0.0	0.0
		50.4	4325.4	0.0	0.0	0.0	0.0
		82.7	4357.4	0.0	0.0	0.0	0.0
		-1187.7	3884.8	0.0	0.0	0.0	0.0
		-1155.4	3916.8	0.0	0.0	0.0	0.0
		-220.2	4004.9	0.0	0.0	0.0	0.0

	-187.9	4036.9	0.0	0.0	0.0	0.0
Nodo 133	SX	SY	SZ	RX	RY	RZ
	-3315.8	285.1	0.0	0.0	0.0	0.0
	-3339.4	302.1	0.0	0.0	0.0	0.0
	-3179.7	97.7	0.0	0.0	0.0	0.0
	-3203.3	114.7	0.0	0.0	0.0	0.0
	-3145.5	131.3	0.0	0.0	0.0	0.0
	-3169.1	148.4	0.0	0.0	0.0	0.0
	-3009.4	-56.1	0.0	0.0	0.0	0.0
	-3033.0	-39.0	0.0	0.0	0.0	0.0
	-2335.9	-2292.6	0.0	0.0	0.0	0.0
	-2359.5	-2275.5	0.0	0.0	0.0	0.0
	-2199.8	-2480.0	0.0	0.0	0.0	0.0
	-2223.4	-2462.9	0.0	0.0	0.0	0.0
	-2165.6	-2446.3	0.0	0.0	0.0	0.0
	-2189.2	-2429.3	0.0	0.0	0.0	0.0
	-2029.5	-2633.7	0.0	0.0	0.0	0.0
	-2053.1	-2616.7	0.0	0.0	0.0	0.0
Nodo 134	SX	SY	SZ	RX	RY	RZ
	3145.7	1423.9	0.0	0.0	0.0	0.0
	3150.0	1415.1	0.0	0.0	0.0	0.0
	3252.5	1630.9	0.0	0.0	0.0	0.0
	3256.8	1622.1	0.0	0.0	0.0	0.0
	3180.9	1536.7	0.0	0.0	0.0	0.0
	3185.2	1527.9	0.0	0.0	0.0	0.0
	3287.7	1743.7	0.0	0.0	0.0	0.0
	3292.0	1734.9	0.0	0.0	0.0	0.0
	2866.8	-669.2	0.0	0.0	0.0	0.0
	2871.1	-678.0	0.0	0.0	0.0	0.0
	2973.6	-462.2	0.0	0.0	0.0	0.0
	2977.9	-471.0	0.0	0.0	0.0	0.0
	2902.0	-556.4	0.0	0.0	0.0	0.0
	2906.3	-565.2	0.0	0.0	0.0	0.0
	3008.8	-349.4	0.0	0.0	0.0	0.0
	3013.1	-358.2	0.0	0.0	0.0	0.0
Nodo 135	SX	SY	SZ	RX	RY	RZ
	-4499.9	3311.9	0.0	0.0	0.0	0.0
	-4484.2	3379.3	0.0	0.0	0.0	0.0
	-4541.0	3114.3	0.0	0.0	0.0	0.0
	-4525.3	3181.7	0.0	0.0	0.0	0.0
	-4579.5	2729.7	0.0	0.0	0.0	0.0
	-4563.7	2797.1	0.0	0.0	0.0	0.0
	-4620.5	2532.1	0.0	0.0	0.0	0.0
	-4604.8	2599.5	0.0	0.0	0.0	0.0
	-5329.6	-3440.2	0.0	0.0	0.0	0.0
	-5313.9	-3372.8	0.0	0.0	0.0	0.0
	-5370.7	-3637.8	0.0	0.0	0.0	0.0
	-5355.0	-3570.4	0.0	0.0	0.0	0.0
	-5409.2	-4022.4	0.0	0.0	0.0	0.0
	-5393.4	-3955.0	0.0	0.0	0.0	0.0
	-5450.3	-4220.0	0.0	0.0	0.0	0.0
	-5434.5	-4152.6	0.0	0.0	0.0	0.0
Nodo 136	SX	SY	SZ	RX	RY	RZ
	4564.6	259.3	0.0	0.0	0.0	0.0
	4617.9	197.4	0.0	0.0	0.0	0.0
	4206.9	643.8	0.0	0.0	0.0	0.0
	4260.2	581.8	0.0	0.0	0.0	0.0
	4457.1	696.3	0.0	0.0	0.0	0.0
	4510.3	634.4	0.0	0.0	0.0	0.0
	4099.3	1080.8	0.0	0.0	0.0	0.0
	4152.6	1018.8	0.0	0.0	0.0	0.0
	4176.1	-4510.2	0.0	0.0	0.0	0.0
	4229.3	-4572.1	0.0	0.0	0.0	0.0
	3818.4	-4125.7	0.0	0.0	0.0	0.0
	3871.6	-4187.7	0.0	0.0	0.0	0.0
	4068.5	-4073.2	0.0	0.0	0.0	0.0
	4121.8	-4135.1	0.0	0.0	0.0	0.0
	3710.8	-3688.7	0.0	0.0	0.0	0.0
	3764.1	-3750.7	0.0	0.0	0.0	0.0
Nodo 137	SX	SY	SZ	RX	RY	RZ
	-3216.5	3875.9	0.0	0.0	0.0	0.0
	-3186.1	3940.3	0.0	0.0	0.0	0.0
	-3332.7	3506.6	0.0	0.0	0.0	0.0
	-3302.4	3571.0	0.0	0.0	0.0	0.0
	-3359.4	3306.5	0.0	0.0	0.0	0.0
	-3329.0	3371.0	0.0	0.0	0.0	0.0
	-3475.6	2937.2	0.0	0.0	0.0	0.0
	-3445.2	3001.7	0.0	0.0	0.0	0.0
	-4342.6	-1484.2	0.0	0.0	0.0	0.0
	-4312.2	-1419.7	0.0	0.0	0.0	0.0
	-4458.8	-1853.5	0.0	0.0	0.0	0.0
	-4428.4	-1789.0	0.0	0.0	0.0	0.0
	-4485.5	-2053.5	0.0	0.0	0.0	0.0

		-4455.1	-1989.1	0.0	0.0	0.0	0.0
		-4601.7	-2422.8	0.0	0.0	0.0	0.0
		-4571.3	-2358.4	0.0	0.0	0.0	0.0
Nodo	138	SX	SY	SZ	RX	RY	RZ
		3131.9	56.5	0.0	0.0	0.0	0.0
		3144.1	20.6	0.0	0.0	0.0	0.0
		3092.8	357.9	0.0	0.0	0.0	0.0
		3104.9	322.0	0.0	0.0	0.0	0.0
		3118.6	342.2	0.0	0.0	0.0	0.0
		3130.8	306.3	0.0	0.0	0.0	0.0
		3079.5	643.6	0.0	0.0	0.0	0.0
		3091.6	607.7	0.0	0.0	0.0	0.0
		2948.0	-1659.2	0.0	0.0	0.0	0.0
		2960.2	-1695.2	0.0	0.0	0.0	0.0
		2908.9	-1357.9	0.0	0.0	0.0	0.0
		2921.0	-1393.8	0.0	0.0	0.0	0.0
		2934.7	-1373.5	0.0	0.0	0.0	0.0
		2946.9	-1409.5	0.0	0.0	0.0	0.0
		2895.6	-1072.2	0.0	0.0	0.0	0.0
		2907.7	-1108.1	0.0	0.0	0.0	0.0
Nodo	139	SX	SY	SZ	RX	RY	RZ
		-259.6	-714.6	0.0	0.0	0.0	0.0
		-235.4	-706.8	0.0	0.0	0.0	0.0
		-342.7	-769.4	0.0	0.0	0.0	0.0
		-318.6	-761.6	0.0	0.0	0.0	0.0
		-290.1	-762.4	0.0	0.0	0.0	0.0
		-266.0	-754.5	0.0	0.0	0.0	0.0
		-373.3	-817.2	0.0	0.0	0.0	0.0
		-349.2	-809.3	0.0	0.0	0.0	0.0
		-65.7	132.1	0.0	0.0	0.0	0.0
		-41.6	139.9	0.0	0.0	0.0	0.0
		-148.9	77.3	0.0	0.0	0.0	0.0
		-124.7	85.1	0.0	0.0	0.0	0.0
		-96.3	84.4	0.0	0.0	0.0	0.0
		-72.2	92.2	0.0	0.0	0.0	0.0
		-179.4	29.6	0.0	0.0	0.0	0.0
		-155.3	37.4	0.0	0.0	0.0	0.0
Nodo	140	SX	SY	SZ	RX	RY	RZ
		3779.9	891.0	0.0	0.0	0.0	0.0
		3775.6	839.8	0.0	0.0	0.0	0.0
		3809.8	1292.4	0.0	0.0	0.0	0.0
		3805.5	1241.2	0.0	0.0	0.0	0.0
		3835.8	1295.9	0.0	0.0	0.0	0.0
		3831.5	1244.7	0.0	0.0	0.0	0.0
		3865.8	1697.3	0.0	0.0	0.0	0.0
		3861.4	1646.1	0.0	0.0	0.0	0.0
		3430.8	-1467.8	0.0	0.0	0.0	0.0
		3426.5	-1519.0	0.0	0.0	0.0	0.0
		3460.8	-1066.4	0.0	0.0	0.0	0.0
		3456.4	-1117.5	0.0	0.0	0.0	0.0
		3486.8	-1062.9	0.0	0.0	0.0	0.0
		3482.5	-1114.1	0.0	0.0	0.0	0.0
		3516.7	-661.4	0.0	0.0	0.0	0.0
		3512.4	-712.6	0.0	0.0	0.0	0.0
Nodo	141	SX	SY	SZ	RX	RY	RZ
		-3583.7	3800.7	0.0	0.0	0.0	0.0
		-3509.8	3867.8	0.0	0.0	0.0	0.0
		-3980.1	3437.2	0.0	0.0	0.0	0.0
		-3906.2	3504.3	0.0	0.0	0.0	0.0
		-3886.6	3163.8	0.0	0.0	0.0	0.0
		-3812.7	3230.9	0.0	0.0	0.0	0.0
		-4283.0	2800.3	0.0	0.0	0.0	0.0
		-4209.2	2867.4	0.0	0.0	0.0	0.0
		-5269.4	-1795.8	0.0	0.0	0.0	0.0
		-5195.5	-1728.7	0.0	0.0	0.0	0.0
		-5665.8	-2159.3	0.0	0.0	0.0	0.0
		-5591.9	-2092.3	0.0	0.0	0.0	0.0
		-5572.3	-2432.7	0.0	0.0	0.0	0.0
		-5498.4	-2365.6	0.0	0.0	0.0	0.0
		-5968.7	-2796.2	0.0	0.0	0.0	0.0
		-5894.9	-2729.2	0.0	0.0	0.0	0.0
Nodo	142	SX	SY	SZ	RX	RY	RZ
		2400.2	1971.6	0.0	0.0	0.0	0.0
		2384.9	1924.4	0.0	0.0	0.0	0.0
		2484.6	2459.8	0.0	0.0	0.0	0.0
		2469.2	2412.5	0.0	0.0	0.0	0.0
		2502.1	2345.7	0.0	0.0	0.0	0.0
		2486.7	2298.5	0.0	0.0	0.0	0.0
		2586.5	2833.9	0.0	0.0	0.0	0.0
		2571.1	2786.7	0.0	0.0	0.0	0.0
		2115.8	696.7	0.0	0.0	0.0	0.0
		2100.4	649.5	0.0	0.0	0.0	0.0
		2200.1	1184.9	0.0	0.0	0.0	0.0



		2184.7	1137.7	0.0	0.0	0.0	0.0
		2217.6	1070.8	0.0	0.0	0.0	0.0
		2202.2	1023.6	0.0	0.0	0.0	0.0
		2302.0	1559.0	0.0	0.0	0.0	0.0
		2286.6	1511.8	0.0	0.0	0.0	0.0
Nodo	143	SX	SY	SZ	RX	RY	RZ
		-2511.2	1328.3	0.0	0.0	0.0	0.0
		-2494.2	1352.4	0.0	0.0	0.0	0.0
		-2546.3	1257.7	0.0	0.0	0.0	0.0
		-2529.3	1281.7	0.0	0.0	0.0	0.0
		-2597.0	1118.9	0.0	0.0	0.0	0.0
		-2580.0	1143.0	0.0	0.0	0.0	0.0
		-2632.1	1048.3	0.0	0.0	0.0	0.0
		-2615.1	1072.3	0.0	0.0	0.0	0.0
		-2944.1	-77.5	0.0	0.0	0.0	0.0
		-2927.1	-53.5	0.0	0.0	0.0	0.0
		-2979.2	-148.2	0.0	0.0	0.0	0.0
		-2962.2	-124.2	0.0	0.0	0.0	0.0
		-3029.9	-286.9	0.0	0.0	0.0	0.0
		-3012.9	-262.9	0.0	0.0	0.0	0.0
		-3065.0	-357.6	0.0	0.0	0.0	0.0
		-3048.0	-333.6	0.0	0.0	0.0	0.0
Nodo	144	SX	SY	SZ	RX	RY	RZ
		3.4	709.3	0.0	0.0	0.0	0.0
		6.6	673.2	0.0	0.0	0.0	0.0
		35.9	883.0	0.0	0.0	0.0	0.0
		39.0	846.9	0.0	0.0	0.0	0.0
		-20.7	976.4	0.0	0.0	0.0	0.0
		-17.5	940.3	0.0	0.0	0.0	0.0
		11.8	1150.1	0.0	0.0	0.0	0.0
		15.0	1114.0	0.0	0.0	0.0	0.0
		1549.9	-1053.5	0.0	0.0	0.0	0.0
		1553.1	-1089.5	0.0	0.0	0.0	0.0
		1582.4	-879.8	0.0	0.0	0.0	0.0
		1585.6	-915.8	0.0	0.0	0.0	0.0
		1525.9	-786.4	0.0	0.0	0.0	0.0
		1529.0	-822.4	0.0	0.0	0.0	0.0
		1558.3	-612.6	0.0	0.0	0.0	0.0
		1561.5	-648.7	0.0	0.0	0.0	0.0
Nodo	145	SX	SY	SZ	RX	RY	RZ
		-3054.7	2135.4	0.0	0.0	0.0	0.0
		-3043.1	2178.4	0.0	0.0	0.0	0.0
		-3110.6	1911.0	0.0	0.0	0.0	0.0
		-3099.0	1954.0	0.0	0.0	0.0	0.0
		-3133.8	1788.1	0.0	0.0	0.0	0.0
		-3122.1	1831.1	0.0	0.0	0.0	0.0
		-3189.7	1563.7	0.0	0.0	0.0	0.0
		-3178.0	1606.7	0.0	0.0	0.0	0.0
		-3497.0	455.4	0.0	0.0	0.0	0.0
		-3485.4	498.4	0.0	0.0	0.0	0.0
		-3552.9	231.0	0.0	0.0	0.0	0.0
		-3541.2	274.0	0.0	0.0	0.0	0.0
		-3576.0	108.1	0.0	0.0	0.0	0.0
		-3564.4	151.1	0.0	0.0	0.0	0.0
		-3631.9	-116.3	0.0	0.0	0.0	0.0
		-3620.3	-73.3	0.0	0.0	0.0	0.0
Nodo	146	SX	SY	SZ	RX	RY	RZ
		297.2	3678.3	0.0	0.0	0.0	0.0
		308.3	3672.4	0.0	0.0	0.0	0.0
		473.1	3643.9	0.0	0.0	0.0	0.0
		484.2	3638.0	0.0	0.0	0.0	0.0
		355.5	3675.7	0.0	0.0	0.0	0.0
		366.6	3669.7	0.0	0.0	0.0	0.0
		531.4	3641.2	0.0	0.0	0.0	0.0
		542.5	3635.3	0.0	0.0	0.0	0.0
		3235.6	3228.1	0.0	0.0	0.0	0.0
		3246.7	3222.1	0.0	0.0	0.0	0.0
		3411.5	3193.6	0.0	0.0	0.0	0.0
		3422.6	3187.7	0.0	0.0	0.0	0.0
		3293.9	3225.4	0.0	0.0	0.0	0.0
		3305.0	3219.4	0.0	0.0	0.0	0.0
		3469.8	3190.9	0.0	0.0	0.0	0.0
		3480.9	3185.0	0.0	0.0	0.0	0.0
Nodo	147	SX	SY	SZ	RX	RY	RZ
		-505.5	5860.0	0.0	0.0	0.0	0.0
		-405.2	5841.5	0.0	0.0	0.0	0.0
		-1294.7	6017.4	0.0	0.0	0.0	0.0
		-1194.3	5998.9	0.0	0.0	0.0	0.0
		-1148.7	5990.1	0.0	0.0	0.0	0.0
		-1048.3	5971.6	0.0	0.0	0.0	0.0
		-1937.9	6147.5	0.0	0.0	0.0	0.0
		-1837.5	6129.0	0.0	0.0	0.0	0.0
		2608.1	5197.9	0.0	0.0	0.0	0.0

		2708.4	5179.4	0.0	0.0	0.0	0.0
		1818.9	5355.3	0.0	0.0	0.0	0.0
		1919.3	5336.8	0.0	0.0	0.0	0.0
		1964.9	5328.0	0.0	0.0	0.0	0.0
		2065.3	5309.5	0.0	0.0	0.0	0.0
		1175.7	5485.4	0.0	0.0	0.0	0.0
		1276.1	5466.9	0.0	0.0	0.0	0.0
Nodo	148	SX	SY	SZ	RX	RY	RZ
		-1545.0	4764.0	0.0	0.0	0.0	0.0
		-1463.4	4752.4	0.0	0.0	0.0	0.0
		-2198.8	4869.5	0.0	0.0	0.0	0.0
		-2117.2	4857.9	0.0	0.0	0.0	0.0
		-2012.5	4840.3	0.0	0.0	0.0	0.0
		-1930.8	4828.7	0.0	0.0	0.0	0.0
		-2666.3	4945.7	0.0	0.0	0.0	0.0
		-2584.7	4934.2	0.0	0.0	0.0	0.0
		195.6	4273.6	0.0	0.0	0.0	0.0
		277.2	4262.0	0.0	0.0	0.0	0.0
		-458.3	4379.1	0.0	0.0	0.0	0.0
		-376.7	4367.5	0.0	0.0	0.0	0.0
		-271.9	4349.9	0.0	0.0	0.0	0.0
		-190.3	4338.3	0.0	0.0	0.0	0.0
		-925.8	4455.3	0.0	0.0	0.0	0.0
		-844.2	4443.8	0.0	0.0	0.0	0.0
Nodo	149	SX	SY	SZ	RX	RY	RZ
		-1543.5	1808.8	0.0	0.0	0.0	0.0
		-1539.7	1840.2	0.0	0.0	0.0	0.0
		-1595.6	1606.7	0.0	0.0	0.0	0.0
		-1591.8	1638.1	0.0	0.0	0.0	0.0
		-1579.4	1572.9	0.0	0.0	0.0	0.0
		-1575.7	1604.3	0.0	0.0	0.0	0.0
		-1631.5	1370.8	0.0	0.0	0.0	0.0
		-1627.7	1402.2	0.0	0.0	0.0	0.0
		-1766.6	2547.7	0.0	0.0	0.0	0.0
		-1762.8	2579.1	0.0	0.0	0.0	0.0
		-1818.6	2345.6	0.0	0.0	0.0	0.0
		-1814.9	2377.0	0.0	0.0	0.0	0.0
		-1802.5	2311.8	0.0	0.0	0.0	0.0
		-1798.7	2343.1	0.0	0.0	0.0	0.0
		-1854.6	2109.7	0.0	0.0	0.0	0.0
		-1850.8	2141.0	0.0	0.0	0.0	0.0
Nodo	150	SX	SY	SZ	RX	RY	RZ
		-874.9	5182.3	0.0	0.0	0.0	0.0
		-757.3	5175.1	0.0	0.0	0.0	0.0
		-1944.4	5284.3	0.0	0.0	0.0	0.0
		-1826.8	5277.1	0.0	0.0	0.0	0.0
		-1653.2	5237.4	0.0	0.0	0.0	0.0
		-1535.6	5230.2	0.0	0.0	0.0	0.0
		-2722.8	5339.3	0.0	0.0	0.0	0.0
		-2605.1	5332.1	0.0	0.0	0.0	0.0
		1462.8	4533.4	0.0	0.0	0.0	0.0
		1580.5	4526.2	0.0	0.0	0.0	0.0
		393.3	4635.3	0.0	0.0	0.0	0.0
		510.9	4628.1	0.0	0.0	0.0	0.0
		684.5	4588.4	0.0	0.0	0.0	0.0
		802.1	4581.2	0.0	0.0	0.0	0.0
		-385.0	4690.4	0.0	0.0	0.0	0.0
		-267.4	4683.2	0.0	0.0	0.0	0.0
Nodo	151	SX	SY	SZ	RX	RY	RZ
		664.3	3785.8	0.0	0.0	0.0	0.0
		719.3	3778.5	0.0	0.0	0.0	0.0
		255.6	3851.8	0.0	0.0	0.0	0.0
		310.7	3844.6	0.0	0.0	0.0	0.0
		384.4	3809.7	0.0	0.0	0.0	0.0
		439.5	3802.5	0.0	0.0	0.0	0.0
		-24.2	3875.8	0.0	0.0	0.0	0.0
		30.8	3868.5	0.0	0.0	0.0	0.0
		-344.9	3648.2	0.0	0.0	0.0	0.0
		-289.9	3641.0	0.0	0.0	0.0	0.0
		-753.6	3714.3	0.0	0.0	0.0	0.0
		-698.6	3707.1	0.0	0.0	0.0	0.0
		-624.8	3672.2	0.0	0.0	0.0	0.0
		-569.7	3664.9	0.0	0.0	0.0	0.0
		-1033.4	3738.3	0.0	0.0	0.0	0.0
		-978.4	3731.0	0.0	0.0	0.0	0.0
Nodo	152	SX	SY	SZ	RX	RY	RZ
		842.3	4744.8	0.0	0.0	0.0	0.0
		912.1	4733.5	0.0	0.0	0.0	0.0
		330.5	4841.8	0.0	0.0	0.0	0.0
		400.3	4830.5	0.0	0.0	0.0	0.0
		416.5	4821.5	0.0	0.0	0.0	0.0
		486.2	4810.2	0.0	0.0	0.0	0.0
		-95.3	4918.5	0.0	0.0	0.0	0.0

		-25.6	4907.2	0.0	0.0	0.0	0.0
		-1058.9	5096.5	0.0	0.0	0.0	0.0
		-989.1	5085.2	0.0	0.0	0.0	0.0
		-1570.7	5193.5	0.0	0.0	0.0	0.0
		-1500.9	5182.2	0.0	0.0	0.0	0.0
		-1484.8	5173.2	0.0	0.0	0.0	0.0
		-1415.0	5161.9	0.0	0.0	0.0	0.0
		-1996.6	5270.2	0.0	0.0	0.0	0.0
		-1926.8	5258.9	0.0	0.0	0.0	0.0
Nodo	153	SX	SY	SZ	RX	RY	RZ
		-1100.8	3302.3	0.0	0.0	0.0	0.0
		-1109.4	3306.3	0.0	0.0	0.0	0.0
		-778.2	3251.0	0.0	0.0	0.0	0.0
		-786.8	3255.1	0.0	0.0	0.0	0.0
		-922.6	3276.3	0.0	0.0	0.0	0.0
		-931.2	3280.3	0.0	0.0	0.0	0.0
		-600.1	3225.1	0.0	0.0	0.0	0.0
		-608.7	3229.1	0.0	0.0	0.0	0.0
		-4030.0	4117.0	0.0	0.0	0.0	0.0
		-4038.6	4121.0	0.0	0.0	0.0	0.0
		-3707.4	4065.8	0.0	0.0	0.0	0.0
		-3716.0	4069.8	0.0	0.0	0.0	0.0
		-3851.8	4091.1	0.0	0.0	0.0	0.0
		-3860.4	4095.1	0.0	0.0	0.0	0.0
		-3529.3	4039.9	0.0	0.0	0.0	0.0
		-3537.9	4043.9	0.0	0.0	0.0	0.0
Nodo	154	SX	SY	SZ	RX	RY	RZ
		-429.6	855.6	0.0	0.0	0.0	0.0
		-417.2	876.5	0.0	0.0	0.0	0.0
		-465.8	756.9	0.0	0.0	0.0	0.0
		-453.5	777.7	0.0	0.0	0.0	0.0
		-554.0	669.5	0.0	0.0	0.0	0.0
		-541.7	690.3	0.0	0.0	0.0	0.0
		-590.3	570.7	0.0	0.0	0.0	0.0
		-577.9	591.6	0.0	0.0	0.0	0.0
		-2188.1	150.5	0.0	0.0	0.0	0.0
		-2175.8	171.3	0.0	0.0	0.0	0.0
		-2224.4	51.8	0.0	0.0	0.0	0.0
		-2212.1	72.6	0.0	0.0	0.0	0.0
		-2312.6	-35.6	0.0	0.0	0.0	0.0
		-2300.2	-14.8	0.0	0.0	0.0	0.0
		-2348.8	-134.4	0.0	0.0	0.0	0.0
		-2336.5	-113.6	0.0	0.0	0.0	0.0

REAZIONI VINCOLARI

CASO DI CARICO : 15 Rara

COMBINAZIONE

N. 9 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.00
2	Peso_proprio_Fondaz	+	1.00
3	Permanente	+	1.00
4	Variabile	+	1.00
5	Var_cop_praticabile	+	1.00
6	Var_cop_non_pratica	+	1.00
7	Variabile_Scale	+	1.00
10	Neve	+	1.00
11	Spinta_terre	+	1.00

1) +1.00\*c001 +1.00\*c002 +1.00\*c003 +1.00\*c004 +1.00\*c005  
 ) +1.00\*c006 +1.00\*c007 +1.00\*c010 +1.00\*c011

Unità di misura: SX,SY,SZ [daN];RX,RY,RZ [daNcm]

Coefficiente moltiplicativo: 1.000000

Nodo	1	SX	SY	SZ	RX	RY	RZ
		999.8	-1412.0	0.0	0.0	0.0	0.0
Nodo	2	SX	SY	SZ	RX	RY	RZ
		399.2	-4011.4	0.0	0.0	0.0	0.0
Nodo	3	SX	SY	SZ	RX	RY	RZ
		474.0	-5037.8	0.0	0.0	0.0	0.0
Nodo	4	SX	SY	SZ	RX	RY	RZ
		-881.5	-5754.3	0.0	0.0	0.0	0.0
Nodo	5	SX	SY	SZ	RX	RY	RZ
		-1638.7	-4882.8	0.0	0.0	0.0	0.0
Nodo	6	SX	SY	SZ	RX	RY	RZ
		-587.5	-6046.2	0.0	0.0	0.0	0.0
Nodo	7	SX	SY	SZ	RX	RY	RZ
		1282.5	-3688.7	0.0	0.0	0.0	0.0

Nodo	8	SX 263.6	SY -166.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	9	SX -3357.5	SY -3240.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	10	SX 3201.7	SY -2333.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	11	SX -5444.3	SY -1822.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	12	SX 5388.6	SY -1407.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	13	SX -4116.8	SY -980.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	14	SX 4133.0	SY -1021.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	15	SX -4163.5	SY -1750.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	16	SX -640.2	SY -155.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	17	SX 5014.4	SY -837.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	18	SX -4326.8	SY -2559.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	19	SX 4372.7	SY -292.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	20	SX -5782.9	SY -1525.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	21	SX 5746.2	SY 1115.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	22	SX -3255.2	SY 305.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	23	SX 3643.4	SY 1246.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	24	SX -2176.4	SY -70.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	25	SX -4509.0	SY -3377.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	26	SX -1114.2	SY -5643.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	27	SX 535.9	SY -4168.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	28	SX -3804.5	SY -3995.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	29	SX -7530.1	SY -3189.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	30	SX -6626.9	SY -4440.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	31	SX -2154.3	SY -2339.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	32	SX -476.1	SY -1172.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	33	SX 6050.3	SY -3327.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	34	SX 370.1	SY 1624.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	35	SX 6192.5	SY -2374.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	36	SX 4773.9	SY -3500.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0

Nodo	37	SX 5813.0	SY -5587.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	38	SX 6354.2	SY -4103.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	39	SX 2879.1	SY -4045.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	40	SX -811.9	SY -3695.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	41	SX 180.4	SY -5046.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	42	SX 1404.5	SY -3865.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	43	SX -279.2	SY -4826.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	44	SX -2004.6	SY -3476.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	45	SX -965.2	SY -4545.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	46	SX 140.6	SY -3492.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	47	SX -1269.9	SY -5175.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	48	SX -2471.2	SY -3951.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	49	SX -829.4	SY -5076.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	50	SX 772.3	SY -3850.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	51	SX -727.9	SY -5215.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	52	SX -2115.2	SY -3909.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	53	SX -561.3	SY -5149.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	54	SX 1162.8	SY -4134.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	55	SX 179.6	SY -5356.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	56	SX -246.0	SY -4025.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	57	SX 1611.8	SY -3166.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	58	SX 731.9	SY -731.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	59	SX -2387.8	SY -1646.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	60	SX 2777.2	SY -1129.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	61	SX 106.0	SY 2887.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	62	SX -1443.4	SY 366.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	63	SX -1803.3	SY 1979.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	64	SX -4299.3	SY 428.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	65	SX 4410.2	SY 854.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	66	SX	SY	SZ	RX	RY	RZ

		214.1	2866.1	0.0	0.0	0.0	0.0
Nodo	67	SX -247.3	SY 827.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	68	SX -3058.3	SY 741.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	69	SX 3301.3	SY 1309.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	70	SX 2606.8	SY 48.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	71	SX 398.9	SY -518.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	72	SX -2315.2	SY -1371.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	73	SX -4889.9	SY -2739.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	74	SX -991.9	SY -1485.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	75	SX 38.8	SY -570.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	76	SX -316.7	SY 166.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	77	SX 1518.7	SY -586.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	78	SX -35.4	SY 158.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	79	SX 96.8	SY -394.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	80	SX -234.2	SY 726.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	81	SX 407.0	SY 2076.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	82	SX 0.3	SY 1249.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	83	SX 5224.4	SY -1798.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	84	SX -3102.5	SY -5419.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	85	SX 3118.6	SY -3664.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	86	SX -4921.4	SY -4432.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	87	SX 4854.4	SY -3063.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	88	SX -5296.9	SY -475.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	89	SX 5306.3	SY -302.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	90	SX -4786.8	SY 3733.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	91	SX 4897.9	SY 2726.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	92	SX -2249.1	SY 6780.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	93	SX 2663.0	SY 5610.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	94	SX 304.0	SY 3278.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	95	SX -2245.6	SY 3123.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0

Nodo	96	SX 1017.3	SY 5531.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	97	SX 2991.4	SY 4337.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	98	SX 1189.1	SY 5961.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	99	SX -726.1	SY 3440.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	100	SX 167.0	SY 4513.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	101	SX 849.9	SY 3406.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	102	SX -1483.7	SY 7164.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	103	SX -3784.4	SY 3744.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	104	SX -2980.9	SY 5140.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	105	SX -622.7	SY 4255.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	106	SX -80.1	SY 3131.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	107	SX -2160.3	SY -2864.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	108	SX -6306.5	SY 1548.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	109	SX 634.7	SY 472.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	110	SX 2174.5	SY 133.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	111	SX 4180.2	SY 5974.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	112	SX 2768.1	SY -16420.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	113	SX -2240.3	SY 15012.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	114	SX 2014.4	SY 4286.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	115	SX 5069.7	SY 4968.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	116	SX 5825.7	SY 3562.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	117	SX 3314.2	SY 5406.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	118	SX 362.7	SY 3378.4	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	119	SX 914.3	SY 4510.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	120	SX 1469.3	SY 3092.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	121	SX -832.7	SY 5000.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	122	SX -2497.8	SY 3566.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	123	SX -61.2	SY 5085.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	124	SX 2023.1	SY 3299.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0

Nodo	125	SX -797.7	SY 3799.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	126	SX -3624.5	SY 3328.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	127	SX -1743.3	SY 5122.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	128	SX 751.7	SY 3532.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	129	SX -283.5	SY 3935.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	130	SX -1298.6	SY 3287.8	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	131	SX 16.9	SY 2972.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	132	SX -1444.5	SY 3695.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	133	SX -2725.1	SY -1628.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	134	SX 2905.4	SY 61.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	135	SX -5043.7	SY -873.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	136	SX 3918.8	SY -2542.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	137	SX -3900.2	SY 560.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	138	SX 2882.4	SY -971.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	139	SX -271.4	SY -776.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	140	SX 3588.5	SY -202.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	141	SX -4699.0	SY 208.1	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	142	SX 2382.4	SY 1757.7	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	143	SX -2783.6	SY 285.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	144	SX 872.5	SY 51.9	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	145	SX -3361.1	SY 921.2	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	146	SX 1993.5	SY 3449.3	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	147	SX 241.5	SY 5688.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	148	SX -1470.9	SY 4602.5	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	149	SX -1696.8	SY 2142.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	150	SX -658.9	SY 4718.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	151	SX 18.1	SY 3668.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	152	SX -394.5	SY 4967.0	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	153	SX -2329.9	SY 3711.6	SZ 0.0	RX 0.0	RY 0.0	RZ 0.0
Nodo	154	SX	SY	SZ	RX	RY	RZ



-1366.4      482.4      0.0      0.0      0.0      0.0

## DIMENSIONAMENTO PILASTRI

PROGETTO ELEMENTI IN CEMENTO ARMATO - lavoro: BONA01

Unita` di misura:  
 DIM.SEZIONI: cm  
 FORZE: daN  
 LUNGHEZZE: cm  
 COPPIE: daNcm  
 TENSIONI: daN/cm2  
 BARRE: mm  
 AREA BARRE: cm2

PILASTRATA : N. 107 P001 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
186	0.	115.	1	157
228	115.	230.	157	301
448	230.	580.	301	503

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

### CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 186  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.07 P 115. |Ec -0.07 P 115. |etZ .00 P 0. |etY .00 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 228  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.12 P 230. |Ec -0.76 P 230. |etZ .01 P 115. |etY .03 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 448  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.12 P 230. |Ec -0.76 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 108 P002 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
187	0.	115.	4	160
229	115.	230.	160	304
449	230.	580.	304	504

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

### CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 187  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.38 P 0. |Ec -0.23 P 0. |etZ .02 P 0. |etY .01 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 229  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.96 P 230. |Ec -0.72 P 230. |etZ .00 P 115. |etY .04 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |

| 115. 23 5. 20.1 20.1|

----- ASTA 449  
ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 0.96 P 230. |Ec -0.72 P 230. |etZ .01 P 230. |etY .02 P 230. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 109 P003 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
188	0.	115.	8	164
230	115.	230.	164	308
450	230.	580.	308	505

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 188  
ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 0.06 P 115. |Ec -0.05 P 115. |etZ .00 P 0. |etY .00 P 0. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
| Lung. N. Ps Az/m Ay/m |  
| 115. 23 5. 20.1 20.1 |

----- ASTA 230  
ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 1.08 P 230. |Ec -0.75 P 230. |etZ .01 P 115. |etY .03 P 115. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
| Lung. N. Ps Az/m Ay/m |  
| 115. 23 5. 20.1 20.1 |

----- ASTA 450  
ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 1.08 P 230. |Ec -0.75 P 230. |etZ .01 P 230. |etY .02 P 230. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 110 P004 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
189	0.	115.	15	171
231	115.	230.	171	315
451	230.	580.	315	506

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 189  
ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 0.23 P 0. |Ec -0.18 P 0. |etZ .01 P 0. |etY .01 P 0. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
| Lung. N. Ps Az/m Ay/m |  
| 115. 23 5. 20.1 20.1 |

----- ASTA 231  
ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 1.16 P 230. |Ec -0.77 P 230. |etZ .01 P 115. |etY .05 P 115. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
| Lung. N. Ps Az/m Ay/m |  
| 115. 23 5. 20.1 20.1 |

----- ASTA 451  
ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 1.20 P 580. |Ec -0.79 P 580. |etZ .01 P 230. |etY .03 P 230. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 111 P005 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
216	0.	230.	16	316
452	230.	580.	316	507

  

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 216

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.52	P 230.	Ec -0.53	P 230.	etZ .01	P 0.	etY .01
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	26		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m			
	50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1	50. 10 5. 20.1 20.1			

----- ASTA 452

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.52	P 230.	Ec -0.53	P 230.	etZ .01	P 230.	etY .02
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	35		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m			
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1	60. 12 5. 20.1 20.1			

PILASTRATA : N. 112 P006 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
190	0.	115.	17	172
232	115.	230.	172	317
453	230.	580.	317	508

  

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 190

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.23	P 230.	Ec -0.18	P 230.	etZ .01	P 0.	etY .01
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	23		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m			
	115. 23 5. 20.1 20.1	115. 23 5. 20.1 20.1	115. 23 5. 20.1 20.1	115. 23 5. 20.1 20.1			

----- ASTA 232

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.86	P 230.	Ec -0.59	P 230.	etZ .00	P 115.	etY .04
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	23		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m			
	115. 23 5. 20.1 20.1	115. 23 5. 20.1 20.1	115. 23 5. 20.1 20.1	115. 23 5. 20.1 20.1			

----- ASTA 453

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.83	P 230.	Ec -0.59	P 230.	etZ .01	P 230.	etY .02
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	35		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m			
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1	60. 12 5. 20.1 20.1			

PILASTRATA : N. 113 P007 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
191	0.	115.	24	179
233	115.	230.	179	324
454	230.	580.	324	509
587	580.	930.	509	610
705	930.	1280.	610	674

  

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1

2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 191  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.06 P 115. |Ec -0.07 P 115. |etZ .00 P 0. |etY .00 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 233  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.89 P 230. |Ec -0.81 P 230. |etZ .01 P 115. |etY .04 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 454  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.90 P 230. |Ec -0.81 P 230. |etZ .01 P 230. |etY .03 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 587  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.53 P 930. |Ec -0.40 P 930. |etZ .01 P 580. |etY .01 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 705  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.85 P 1280. |Ec -0.54 P 1280. |etZ .01 P 930. |etY .02 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 114 P008 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
192	0.	115.	28	183
234	115.	230.	183	328
455	230.	580.	328	510
588	580.	930.	510	611
706	930.	1280.	611	675

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 192  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.37 P 0. |Ec -0.26 P 0. |etZ .01 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 234  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.51 P 230. |Ec -0.58 P 230. |etZ .02 P 115. |etY .02 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 455  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.52 P 230. |Ec -0.59 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 588  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.66 P 930. |Ec -0.52 P 930. |etZ .01 P 580. |etY .02 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |

| 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|  
 ----- ASTA 706  
 ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.94 P1280.|Ec -0.66 P1280.|etZ .01 P 930.|etY .02 P 930.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

PILASTRATA : N. 115 P009 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
193	0.	115.	32	187
235	115.	230.	187	332
447	230.	501.	332	498
492	501.	580.	498	511
586	580.	851.	511	605
626	851.	930.	605	612
707	930.	1280.	612	676

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 193  
 ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea -0.15 P 0.|Ec -0.16 P 0.|etZ .01 P 0.|etY .01 P 0.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 23|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 115. 23 5. 20.1 20.1|

----- ASTA 235  
 ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.88 P 230.|Ec -0.65 P 230.|etZ .01 P 115.|etY .02 P 115.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 23|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 115. 23 5. 20.1 20.1|

----- ASTA 447  
 ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14.|roy 9.|Lamb 31|L 271.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.88 P 230.|Ec -0.66 P 230.|etZ .01 P 230.|etY .03 P 230.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 28|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 50. 10 5. 20.1 20.1| 171. 8 20. 5.0 5.0| 50. 10 5. 20.1 20.1|

----- ASTA 492  
 ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14.|roy 9.|Lamb 9|L 79.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.75 P 580.|Ec -0.46 P 580.|etZ .04 P 501.|etY .02 P 501.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 15|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 79. 15 5. 20.1 20.1|

----- ASTA 586  
 ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14.|roy 9.|Lamb 31|L 271.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.75 P 580.|Ec -0.46 P 580.|etZ .00 P 580.|etY .02 P 580.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 28|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 50. 10 5. 20.1 20.1| 171. 8 20. 5.0 5.0| 50. 10 5. 20.1 20.1|

----- ASTA 626  
 ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14.|roy 9.|Lamb 9|L 79.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.43 P 851.|Ec -0.38 P 851.|etZ .04 P 851.|etY .02 P 930.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 15|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 79. 15 5. 20.1 20.1|

----- ASTA 707  
 ARMATURE Long. : TOT | N | 10 | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.59 P1280.|Ec -0.45 P1280.|etZ .01 P 930.|etY .01 P 930.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

PILASTRATA : N. 116 P010 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
583	0.	138.	513	573
623	138.	350.	573	613
708	350.	700.	613	677

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	700.	700.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	SoIl.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 583									
ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041		
SNELLEZZA	roz 14.	roy 9.	Lamb 16	L 138.	om 1.00	cz 1.00	cy 1.00		
VALORI Max	Ea 0.62	P 0.	Ec -0.50	P 0.	etZ .01	P 0.	etY .04	P 0.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 21					
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m					
	50. 10 5. 20.1 20.1	38. 1 20. 5.0 5.0	50. 10 5. 20.1 20.1						

----- ASTA 623									
ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041		
SNELLEZZA	roz 14.	roy 9.	Lamb 24	L 212.	om 1.00	cz 1.00	cy 1.00		
VALORI Max	Ea 0.44	P 350.	Ec -0.35	P 350.	etZ .01	P 138.	etY .01	P 138.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 25					
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m					
	50. 10 5. 20.1 20.1	112. 5 20. 5.0 5.0	50. 10 5. 20.1 20.1						

----- ASTA 708									
ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		
VALORI Max	Ea 0.61	P 700.	Ec -0.44	P 700.	etZ .01	P 350.	etY .01	P 350.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35					
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m					
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1						

PILASTRATA : N. 117 P011 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
194	0.	115.	35	190
236	115.	230.	190	335
456	230.	580.	335	514
589	580.	930.	514	614
709	930.	1280.	614	678

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	SoIl.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 194									
ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		
VALORI Max	Ea -0.21	P 0.	Ec -0.23	P 0.	etZ .00	P 0.	etY .01	P 0.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 23					
	Lung. N. Ps Az/m Ay/m								
	115. 23 5. 20.1 20.1								

----- ASTA 236									
ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		
VALORI Max	Ea -0.47	P 230.	Ec -0.54	P 230.	etZ .01	P 115.	etY .01	P 115.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 23					
	Lung. N. Ps Az/m Ay/m								
	115. 23 5. 20.1 20.1								

----- ASTA 456									
ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		
VALORI Max	Ea 0.49	P 580.	Ec -0.54	P 230.	etZ .01	P 230.	etY .02	P 230.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35					
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m					
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1						

----- ASTA 589									
ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		
VALORI Max	Ea 0.88	P 930.	Ec -0.56	P 930.	etZ .01	P 580.	etY .02	P 580.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35					
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m					
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1						

----- ASTA 709									
ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		
VALORI Max	Ea 1.10	P 1280.	Ec -0.65	P 1280.	etZ .01	P 930.	etY .02	P 930.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35					
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m					
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1						

PILASTRATA : N. 118 P012

CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
195	0.	115.	39	194
237	115.	230.	194	339
457	230.	580.	339	515
590	580.	930.	515	615
710	930.	1280.	615	679

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 195

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.13 P	0.	Ec -0.15 P	0.	etZ .01 P	0.	etY .01 P
ARMATURE Tras.	Diam 8	N. braccia z	2	N. braccia y	2	N. tot.	23
	Lung. N. Ps Az/m Ay/m						
	115. 23 5. 20.1 20.1						

----- ASTA 237

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.65 P	230.	Ec -0.45 P	230.	etZ .00 P	115.	etY .04 P
ARMATURE Tras.	Diam 8	N. braccia z	2	N. braccia y	2	N. tot.	23
	Lung. N. Ps Az/m Ay/m						
	115. 23 5. 20.1 20.1						

----- ASTA 457

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea -0.42 P	230.	Ec -0.47 P	230.	etZ .01 P	230.	etY .02 P
ARMATURE Tras.	Diam 8	N. braccia z	2	N. braccia y	2	N. tot.	35
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1				

----- ASTA 590

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.32 P	930.	Ec -0.30 P	930.	etZ .01 P	580.	etY .01 P
ARMATURE Tras.	Diam 8	N. braccia z	2	N. braccia y	2	N. tot.	35
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1				

----- ASTA 710

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.46 P	1280.	Ec -0.38 P	1280.	etZ .01 P	930.	etY .01 P
ARMATURE Tras.	Diam 8	N. braccia z	2	N. braccia y	2	N. tot.	35
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1				

PILASTRATA : N. 119 P013

CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
196	0.	115.	43	198
238	115.	230.	198	343
458	230.	580.	343	516
591	580.	930.	516	616
711	930.	1280.	616	680

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 196

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.21 P	0.	Ec -0.20 P	0.	etZ .01 P	0.	etY .01 P
ARMATURE Tras.	Diam 8	N. braccia z	2	N. braccia y	2	N. tot.	23
	Lung. N. Ps Az/m Ay/m						
	115. 23 5. 20.1 20.1						

----- ASTA 238

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.66 P	230.	Ec -0.45 P	230.	etZ .00 P	115.	etY .03 P

ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 23|  
 | Lung. N. Ps Az/m Ay/m|  
 | 115. 23 5. 20.1 20.1|

----- ASTA 458

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea -0.41 P 230.|Ec -0.46 P 230.|etZ .01 P 230.|etY .02 P 230.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

----- ASTA 591

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.35 P 930.|Ec -0.31 P 930.|etZ .01 P 580.|etY .01 P 580.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

----- ASTA 711

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.52 P1280.|Ec -0.39 P1280.|etZ .01 P 930.|etY .01 P 930.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

PILASTRATA : N. 120 P014 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
197	0.	115.	47	202
239	115.	230.	202	347
459	230.	580.	347	517
592	580.	930.	517	617
712	930.	1280.	617	681

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.27 P 0.|Ec -0.22 P 0.|etZ .02 P 0.|etY .02 P 0.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 23|  
 | Lung. N. Ps Az/m Ay/m|  
 | 115. 23 5. 20.1 20.1|

----- ASTA 239

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.65 P 230.|Ec -0.44 P 230.|etZ .00 P 115.|etY .03 P 115.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 23|  
 | Lung. N. Ps Az/m Ay/m|  
 | 115. 23 5. 20.1 20.1|

----- ASTA 459

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea -0.40 P 230.|Ec -0.45 P 230.|etZ .01 P 230.|etY .02 P 230.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

----- ASTA 592

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.40 P 930.|Ec -0.33 P 930.|etZ .01 P 580.|etY .01 P 580.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

----- ASTA 712

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.55 P1280.|Ec -0.41 P1280.|etZ .01 P 930.|etY .01 P 930.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

PILASTRATA : N. 121 P015 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
198	0.	115.	51	206
240	115.	230.	206	351
460	230.	580.	351	518
593	580.	930.	518	618



713	930.	1280.	618	682										
Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4					
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.					

CASI DI CARICO		solli.
N	Descrizione	
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 198											
ARMATURE Long.	: TOT		N	10	A	20.10619	%	1.34041			
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
VALORI Max	Ea 0.29 P 0.	Ec -0.22 P 0.	etZ .02 P 0.	etY .02 P 0.							
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 23							
	Lung. N. Ps Az/m Ay/m										
	115. 23 5. 20.1 20.1										

----- ASTA 240											
ARMATURE Long.	: TOT		N	10	A	20.10619	%	1.34041			
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
VALORI Max	Ea 0.61 P 230.	Ec -0.45 P 230.	etZ .00 P 115.	etY .03 P 115.							
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 23							
	Lung. N. Ps Az/m Ay/m										
	115. 23 5. 20.1 20.1										

----- ASTA 460											
ARMATURE Long.	: TOT		N	10	A	20.10619	%	1.34041			
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				
VALORI Max	Ea -0.39 P 230.	Ec -0.45 P 230.	etZ .01 P 230.	etY .02 P 230.							
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35							
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m								
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1								

----- ASTA 593											
ARMATURE Long.	: TOT		N	10	A	20.10619	%	1.34041			
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				
VALORI Max	Ea 0.35 P 930.	Ec -0.33 P 930.	etZ .01 P 580.	etY .01 P 580.							
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35							
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m								
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1								

----- ASTA 713											
ARMATURE Long.	: TOT		N	10	A	20.10619	%	1.34041			
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				
VALORI Max	Ea 0.51 P 1280.	Ec -0.41 P 1280.	etZ .01 P 930.	etY .01 P 930.							
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35							
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m								
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1								

PILASTRATA : N. 122 P016 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
199	0.	115.	55	210
241	115.	230.	210	355
461	230.	580.	355	519
594	580.	930.	519	619
714	930.	1280.	619	683

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		solli.
N	Descrizione	
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 199											
ARMATURE Long.	: TOT		N	10	A	20.10619	%	1.34041			
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
VALORI Max	Ea 0.32 P 0.	Ec -0.23 P 0.	etZ .01 P 0.	etY .01 P 0.							
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 23							
	Lung. N. Ps Az/m Ay/m										
	115. 23 5. 20.1 20.1										

----- ASTA 241											
ARMATURE Long.	: TOT		N	10	A	20.10619	%	1.34041			
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
VALORI Max	Ea 0.61 P 230.	Ec -0.48 P 230.	etZ .00 P 115.	etY .03 P 115.							
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 23							
	Lung. N. Ps Az/m Ay/m										
	115. 23 5. 20.1 20.1										

----- ASTA 461											
ARMATURE Long.	: TOT		N	10	A	20.10619	%	1.34041			
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				
VALORI Max	Ea -0.42 P 230.	Ec -0.48 P 230.	etZ .01 P 230.	etY .02 P 230.							
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35							

		Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m						
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	
----- ASTA 594																
ARMATURE Long.	: TOT					N	10	A	20.10619	%	1.34041					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00		
VALORI Max	Ea	0.48	P	930.	Ec	-0.38	P	930.	etZ	.01	P	580.	etY	.01	P	580.
ARMATURE Tras.	Diam					8	N. braccia z	2	N. braccia y	2	N. tot.	35				
		Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m				
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	20.1
----- ASTA 714																
ARMATURE Long.	: TOT					N	10	A	20.10619	%	1.34041					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00		
VALORI Max	Ea	0.64	P	1280.	Ec	-0.44	P	1280.	etZ	.01	P	930.	etY	.02	P	930.
ARMATURE Tras.	Diam					8	N. braccia z	2	N. braccia y	2	N. tot.	35				
		Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m				
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	20.1

PILASTRATA : N. 123 P017 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.	Sez. Rett.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
200	0.	115.	58	213										
242	115.	230.	213	358										
462	230.	580.	358	520										
595	580.	930.	520	620										
715	930.	1280.	620	684										
Sez. Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.					

CASI DI CARICO	N	Descrizione	sol1.
	1	SLU	1
	2	SLU VENTOX	2
	3	SLU VENTOY	2
	6	SLU con SISMAX PRINC	16
	7	SLU con SISMAX PRINC	16

		Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m						
		115.	23	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	
----- ASTA 200																
ARMATURE Long.	: TOT					N	10	A	20.10619	%	1.34041					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00		
VALORI Max	Ea	0.08	P	115.	Ec	-0.07	P	115.	etZ	.00	P	0.	etY	.00	P	0.
ARMATURE Tras.	Diam					8	N. braccia z	2	N. braccia y	2	N. tot.	23				
		Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m				
		115.	23	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	20.1

		Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m						
		115.	23	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	
----- ASTA 242																
ARMATURE Long.	: TOT					N	10	A	20.10619	%	1.34041					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00		
VALORI Max	Ea	1.32	P	230.	Ec	-0.89	P	230.	etZ	.01	P	115.	etY	.04	P	115.
ARMATURE Tras.	Diam					8	N. braccia z	2	N. braccia y	2	N. tot.	23				
		Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m				
		115.	23	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	20.1

		Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m						
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	
----- ASTA 462																
ARMATURE Long.	: TOT					N	10	A	20.10619	%	1.34041					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00		
VALORI Max	Ea	1.32	P	230.	Ec	-0.89	P	230.	etZ	.01	P	230.	etY	.03	P	230.
ARMATURE Tras.	Diam					8	N. braccia z	2	N. braccia y	2	N. tot.	35				
		Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m				
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	20.1

		Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m						
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	
----- ASTA 595																
ARMATURE Long.	: TOT					N	10	A	20.10619	%	1.34041					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00		
VALORI Max	Ea	0.57	P	930.	Ec	-0.37	P	930.	etZ	.01	P	580.	etY	.02	P	580.
ARMATURE Tras.	Diam					8	N. braccia z	2	N. braccia y	2	N. tot.	35				
		Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m				
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	20.1

		Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m				Lung. N. Ps Az/m Ay/m						
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	
----- ASTA 715																
ARMATURE Long.	: TOT					N	10	A	20.10619	%	1.34041					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00		
VALORI Max	Ea	0.81	P	1280.	Ec	-0.48	P	1280.	etZ	.01	P	930.	etY	.02	P	930.
ARMATURE Tras.	Diam					8	N. braccia z	2	N. braccia y	2	N. tot.	35				
		Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m					Lung. N. Ps Az/m Ay/m				
		60.	12	5.	20.1	20.1	230.	11	20.	5.0	5.0	60.	12	5.	20.1	20.1

PILASTRATA : N. 124 P018 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.	Sez. Rett.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
201	0.	115.	73	228										
243	115.	230.	228	374										
463	230.	580.	374	532										
596	580.	930.	532	632										
716	930.	1280.	632	693										
Sez. Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.					

CASI DI CARICO	N	Descrizione	sol1.
	1	SLU	1

2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 201  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.29 P 0. |Ec -0.25 P 0. |etZ .02 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 243  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.05 P 230. |Ec -0.78 P 230. |etZ .01 P 115. |etY .05 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 463  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.68 P 230. |Ec -0.78 P 230. |etZ .01 P 230. |etY .03 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 596  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.73 P 930. |Ec -0.59 P 930. |etZ .01 P 580. |etY .01 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 716  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.99 P 1280. |Ec -0.73 P 1280. |etZ .01 P 930. |etY .02 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 125 P019 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
217	0.	230.	74	375
464	230.	580.	375	533
597	580.	930.	533	633
717	930.	1280.	633	694

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 217  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 27 |L 230. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.77 P 230. |Ec -0.83 P 230. |etZ .02 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 26 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 50. 10 5. 20.1 20.1 | 130. 6 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 464  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.55 P 230. |Ec -0.59 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 597  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.56 P 930. |Ec -0.50 P 930. |etZ .01 P 580. |etY .02 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 717  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.79 P 1280. |Ec -0.61 P 1280. |etZ .01 P 930. |etY .02 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 126 P020

CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
218	0.	230.	75	376
465	230.	580.	376	534
598	580.	930.	534	634
718	930.	1280.	634	695

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 218

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.99 P 230.	Ec -0.57 P 230.	etZ .01 P 0.	etY .01 P 0.			
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 26			
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1				

----- ASTA 465

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 1.41 P 580.	Ec -0.96 P 580.	etZ .01 P 230.	etY .02 P 230.			
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35			
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1				

----- ASTA 598

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 1.52 P 930.	Ec -1.00 P 930.	etZ .01 P 580.	etY .03 P 580.			
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35			
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1				

----- ASTA 718

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.89 P 930.	Ec -0.70 P 930.	etZ .01 P 930.	etY .02 P 930.			
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35			
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1				

PILASTRATA : N. 127 P021

CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
219	0.	230.	76	377
466	230.	580.	377	535
599	580.	930.	535	635
719	930.	1280.	635	696

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 219

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.61 P 230.	Ec -0.52 P 0.	etZ .01 P 0.	etY .02 P 0.			
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 26			
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1				

----- ASTA 466

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 1.02 P 580.	Ec -0.77 P 580.	etZ .01 P 230.	etY .01 P 230.			
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35			
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1				

----- ASTA 599

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.90 P 580.	Ec -0.77 P 580.	etZ .01 P 580.	etY .02 P 580.			
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35			
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				

| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |  
 ----- ASTA 719  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.53 P 930. |Ec -0.48 P 930. |etZ .01 P 930. |etY .01 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 128 P022 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
220	0.	230.	77	378
467	230.	580.	378	536
600	580.	930.	536	636
720	930.	1280.	636	697

Sez. Rett.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 220  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 27 |L 230. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.74 P 230. |Ec -0.80 P 230. |etZ .02 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 26 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 50. 10 5. 20.1 20.1 | 130. 6 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 467  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.56 P 230. |Ec -0.61 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 600  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.50 P 930. |Ec -0.45 P 580. |etZ .01 P 580. |etY .01 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 720  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.63 P 1280. |Ec -0.52 P 1280. |etZ .02 P 930. |etY .01 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 129 P023 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
221	0.	230.	78	379
468	230.	580.	379	537
601	580.	930.	537	637
721	930.	1280.	637	698

Sez. Rett.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 221  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 27 |L 230. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.79 P 0. |Ec -0.84 P 0. |etZ .01 P 0. |etY .01 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 26 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 50. 10 5. 20.1 20.1 | 130. 6 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 468  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.55 P 230. |Ec -0.59 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |

	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1
----- ASTA 601			
ARMATURE Long. :	TOT	N 10	A 20.10619
SNELLEZZA	roz 14.  roy 9.  Lamb 40 L 350.  om 1.00 cz 1.00 cy 1.00		% 1.34041
VALORI Max	Ea -0.33 P 580.  Ec -0.35 P 580.  etZ .01 P 580.  etY .01 P 580.		
ARMATURE Tras.	Diam 8 N. braccia z 2 N. braccia y 2 N. tot. 35		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1
----- ASTA 721			
ARMATURE Long. :	TOT	N 10	A 20.10619
SNELLEZZA	roz 14.  roy 9.  Lamb 40 L 350.  om 1.00 cz 1.00 cy 1.00		% 1.34041
VALORI Max	Ea 0.34 P1280.  Ec -0.35 P1280.  etZ .01 P 930.  etY .01 P 930.		
ARMATURE Tras.	Diam 8 N. braccia z 2 N. braccia y 2 N. tot. 35		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

PILASTRATA : N. 130 P024 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
222	0.	230.	79	380
469	230.	580.	380	538
602	580.	930.	538	638
722	930.	1280.	638	699

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1
----- ASTA 222			
ARMATURE Long. :	TOT	N 10	A 20.10619
SNELLEZZA	roz 14.  roy 9.  Lamb 27 L 230.  om 1.00 cz 1.00 cy 1.00		% 1.34041
VALORI Max	Ea -0.73 P 0.  Ec -0.78 P 0.  etZ .01 P 0.  etY .01 P 0.		
ARMATURE Tras.	Diam 8 N. braccia z 2 N. braccia y 2 N. tot. 26		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1
----- ASTA 469			
ARMATURE Long. :	TOT	N 10	A 20.10619
SNELLEZZA	roz 14.  roy 9.  Lamb 40 L 350.  om 1.00 cz 1.00 cy 1.00		% 1.34041
VALORI Max	Ea -0.51 P 230.  Ec -0.55 P 230.  etZ .01 P 230.  etY .01 P 230.		
ARMATURE Tras.	Diam 8 N. braccia z 2 N. braccia y 2 N. tot. 35		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1
----- ASTA 602			
ARMATURE Long. :	TOT	N 10	A 20.10619
SNELLEZZA	roz 14.  roy 9.  Lamb 40 L 350.  om 1.00 cz 1.00 cy 1.00		% 1.34041
VALORI Max	Ea -0.31 P 580.  Ec -0.33 P 580.  etZ .01 P 580.  etY .01 P 580.		
ARMATURE Tras.	Diam 8 N. braccia z 2 N. braccia y 2 N. tot. 35		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1
----- ASTA 722			
ARMATURE Long. :	TOT	N 10	A 20.10619
SNELLEZZA	roz 14.  roy 9.  Lamb 40 L 350.  om 1.00 cz 1.00 cy 1.00		% 1.34041
VALORI Max	Ea 0.41 P1280.  Ec -0.37 P1280.  etZ .01 P 930.  etY .01 P 930.		
ARMATURE Tras.	Diam 8 N. braccia z 2 N. braccia y 2 N. tot. 35		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

PILASTRATA : N. 131 P025 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
223	0.	230.	80	381
470	230.	580.	381	539
603	580.	930.	539	639
723	930.	1280.	639	700

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1
----- ASTA 223			
ARMATURE Long. :	TOT	N 10	A 20.10619
SNELLEZZA	roz 14.  roy 9.  Lamb 27 L 230.  om 1.00 cz 1.00 cy 1.00		% 1.34041

VALORI Max	Ea -0.76 P 230.	Ec -0.81 P 230.	etZ .01 P 0.	etY .01 P 0.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 26	
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	
	50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1		
----- ASTA 470					
ARMATURE Long.	: TOT	N 10	A 20.10619	% 1.34041	
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
	cz 1.00	cy 1.00			
VALORI Max	Ea -0.64 P 230.	Ec -0.69 P 230.	etZ .01 P 230.	etY .02 P 230.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35	
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1		
----- ASTA 603					
ARMATURE Long.	: TOT	N 10	A 20.10619	% 1.34041	
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
	cz 1.00	cy 1.00			
VALORI Max	Ea 0.63 P 930.	Ec -0.52 P 930.	etZ .01 P 580.	etY .02 P 580.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35	
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1		
----- ASTA 723					
ARMATURE Long.	: TOT	N 10	A 20.10619	% 1.34041	
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
	cz 1.00	cy 1.00			
VALORI Max	Ea 0.91 P1280.	Ec -0.65 P1280.	etZ .01 P 930.	etY .02 P 930.	
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35	
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1		

PILASTRATA : N. 132 P026 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
224	0.	230.	81	382
471	230.	580.	382	540
604	580.	930.	540	640
724	930.	1280.	640	701

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 224				
ARMATURE Long.	: TOT	N 10	A 20.10619	% 1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 27	L 230.
	om 1.00	cz 1.00	cy 1.00	
VALORI Max	Ea -0.96 P 230.	Ec -1.04 P 230.	etZ .01 P 0.	etY .02 P 0.
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 26
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1	
----- ASTA 471				
ARMATURE Long.	: TOT	N 10	A 20.10619	% 1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.
	om 1.00	cz 1.00	cy 1.00	
VALORI Max	Ea -0.83 P 230.	Ec -0.90 P 230.	etZ .01 P 230.	etY .03 P 230.
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1	
----- ASTA 604				
ARMATURE Long.	: TOT	N 10	A 20.10619	% 1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.
	om 1.00	cz 1.00	cy 1.00	
VALORI Max	Ea 0.93 P 930.	Ec -0.71 P 930.	etZ .01 P 580.	etY .03 P 580.
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1	
----- ASTA 724				
ARMATURE Long.	: TOT	N 10	A 20.10619	% 1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.
	om 1.00	cz 1.00	cy 1.00	
VALORI Max	Ea 1.28 P1280.	Ec -0.82 P1280.	etZ .01 P 930.	etY .03 P 930.
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot. 35
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1	

PILASTRATA : N. 133 P027 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
225	0.	230.	82	383
472	230.	580.	383	541
605	580.	930.	541	641
725	930.	1280.	641	702

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1

2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 225  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 27 |L 230. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.73 P 230. |Ec -0.78 P 230. |etZ .01 P 0. |etY .01 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 26 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 50. 10 5. 20.1 20.1 | 130. 6 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 472  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.61 P 230. |Ec -0.67 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 605  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.58 P 930. |Ec -0.47 P 930. |etZ .01 P 580. |etY .02 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 725  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.16 P1280. |Ec -0.76 P1280. |etZ .01 P 930. |etY .02 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 134 P028 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
202	0.	115.	83	229
244	115.	230.	229	385
473	230.	580.	385	544
606	580.	930.	544	643
726	930.	1280.	643	703

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 202  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.28 P 0. |Ec -0.23 P 0. |etZ .02 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 244  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.63 P 230. |Ec -0.88 P 230. |etZ .00 P 115. |etY .07 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 473  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.92 P 230. |Ec -0.78 P 230. |etZ .00 P 230. |etY .03 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 606  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.71 P 930. |Ec -0.50 P 930. |etZ .01 P 580. |etY .02 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 726  
 ARMATURE Long. : TOT | N | A | 20.10619 | % | 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.10 P1280. |Ec -0.65 P1280. |etZ .01 P 930. |etY .02 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |



| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 135 P029 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
203	0.	115.	94	240
245	115.	230.	240	396
474	230.	580.	396	545
607	580.	930.	545	644
727	930.	1280.	644	704

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 203  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.07 P 115. |Ec -0.08 P 115. |etZ .00 P 0. |etY .00 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 245  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.56 P 230. |Ec -0.59 P 230. |etZ .02 P 115. |etY .03 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 474  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.50 P 580. |Ec -0.59 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 607  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.66 P 930. |Ec -0.58 P 580. |etZ .01 P 580. |etY .02 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 727  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.93 P 1280. |Ec -0.69 P 1280. |etZ .01 P 930. |etY .02 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 136 P030 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
204	0.	115.	98	244
246	115.	230.	244	400
475	230.	580.	400	546
608	580.	930.	546	645
728	930.	1280.	645	705

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 204  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.28 P 0. |Ec -0.28 P 0. |etZ .02 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 246  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |

VALORI Max |Ea 0.66 P 230. |Ec -0.46 P 230. |etZ .00 P 115. |etY .04 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 475  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.46 P 230. |Ec -0.52 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 608  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.49 P 930. |Ec -0.44 P 930. |etZ .01 P 580. |etY .01 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 728  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.63 P1280. |Ec -0.49 P1280. |etZ .01 P 930. |etY .02 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 137 P031 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
205	0.	115.	102	248
247	115.	230.	248	404
476	230.	580.	404	547
609	580.	930.	547	646
729	930.	1280.	646	706

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 205  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.37 P 0. |Ec -0.36 P 0. |etZ .02 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 247  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.59 P 230. |Ec -0.48 P 230. |etZ .00 P 115. |etY .03 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 476  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.44 P 230. |Ec -0.48 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 609  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.30 P 580. |Ec -0.32 P 580. |etZ .01 P 580. |etY .01 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 729  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.58 P1280. |Ec -0.46 P1280. |etZ .01 P 930. |etY .01 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 138 P032 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
730	0.	350.	649	707

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4

| Rett. | 0. | 350. | 350. | 30. | 50. | 0. | 0. | 0. | 0. |

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 730  
ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 0.69 P 350. |Ec -0.49 P 0. |etZ .01 P 0. |etY .02 P 0. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 139 P033 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
226	0.	230.	109	411
477	230.	580.	411	551
610	580.	930.	551	650
731	930.	1280.	650	708

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 226  
ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 27 |L 230. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea -0.67 P 0. |Ec -0.72 P 0. |etZ .01 P 0. |etY .01 P 0. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 26 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
| 50. 10 5. 20.1 20.1 | 130. 6 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 477  
ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea -0.49 P 230. |Ec -0.53 P 230. |etZ .01 P 230. |etY .02 P 230. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 610  
ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 0.70 P 930. |Ec -0.44 P 930. |etZ .01 P 580. |etY .02 P 580. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 731  
ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 1.00 P1280. |Ec -0.61 P1280. |etZ .01 P 930. |etY .02 P 930. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 140 P034 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
732	0.	350.	652	709

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	350.	350.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 732  
ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
VALORI Max |Ea 0.39 P 350. |Ec -0.37 P 350. |etZ .01 P 0. |etY .01 P 0. |  
ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
| Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |

| 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 141 P035 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
206	0.	115.	117	262
248	115.	230.	262	419
478	230.	580.	419	556
611	580.	930.	556	655
733	930.	1280.	655	710

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 206  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.23 P 0. |Ec -0.26 P 0. |etZ .02 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 248  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.61 P 230. |Ec -0.55 P 230. |etZ .00 P 115. |etY .04 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 478  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.50 P 230. |Ec -0.55 P 230. |etZ .01 P 230. |etY .02 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 611  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.28 P 930. |Ec -0.30 P 930. |etZ .01 P 580. |etY .01 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 733  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.46 P 1280. |Ec -0.40 P 1280. |etZ .01 P 930. |etY .01 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 142 P036 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
207	0.	115.	121	266
249	115.	230.	266	423
479	230.	580.	423	557
612	580.	930.	557	656
734	930.	1280.	656	711

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 207  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.60 P 0. |Ec -0.40 P 0. |etZ .00 P 0. |etY .03 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 249  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |

VALORI Max |Ea -0.57 P 230. |Ec -0.64 P 230. |etZ .02 P 115. |etY .01 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 479  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.57 P 230. |Ec -0.64 P 230. |etZ .01 P 230. |etY .02 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 612  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.57 P 930. |Ec -0.54 P 930. |etZ .01 P 580. |etY .02 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 734  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.89 P1280. |Ec -0.68 P1280. |etZ .01 P 930. |etY .02 P1280. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 143 P037 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
208	0.	115.	125	270
250	115.	230.	270	427
480	230.	580.	427	558
613	580.	930.	558	657
735	930.	1280.	657	712

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 208  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.60 P 0. |Ec -0.40 P 0. |etZ .00 P 0. |etY .02 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 250  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.75 P 230. |Ec -0.85 P 230. |etZ .02 P 115. |etY .03 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 480  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.80 P 580. |Ec -0.88 P 580. |etZ .01 P 230. |etY .03 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 613  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.09 P 930. |Ec -0.82 P 930. |etZ .01 P 580. |etY .03 P 930. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

----- ASTA 735  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.54 P1280. |Ec -0.94 P1280. |etZ .01 P 930. |etY .04 P1280. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 144 P038 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
209	0.	115.	129	274
251	115.	230.	274	431
445	230.	410.	431	489

490	410.	580.	489	559
584	580.	760.	559	596
624	760.	930.	596	658
736	930.	1280.	658	713

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 209

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.61	P 0.	Ec -0.37	P 0.	etz .01	P 0.	etY .02
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	23		
	Lung. N. Ps Az/m Ay/m						
	115. 23 5. 20.1 20.1						

----- ASTA 251

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea -0.96	P 230.	Ec -1.11	P 230.	etz .03	P 115.	etY .03
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	23		
	Lung. N. Ps Az/m Ay/m						
	115. 23 5. 20.1 20.1						

----- ASTA 445

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 21	L 180.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea -0.96	P 230.	Ec -1.11	P 230.	etz .03	P 230.	etY .06
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	24		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	50. 10 5. 20.1 20.1	80. 4 20. 5.0 5.0	50. 10 5. 20.1 20.1				

----- ASTA 490

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 20	L 170.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.61	P 580.	Ec -0.66	P 580.	etz .03	P 410.	etY .02
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	23		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	50. 10 5. 20.1 20.1	70. 3 20. 5.0 5.0	50. 10 5. 20.1 20.1				

----- ASTA 584

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 21	L 180.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.61	P 580.	Ec -0.66	P 580.	etz .01	P 580.	etY .05
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	24		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	50. 10 5. 20.1 20.1	80. 4 20. 5.0 5.0	50. 10 5. 20.1 20.1				

----- ASTA 624

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 20	L 170.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 0.67	P 930.	Ec -0.58	P 930.	etz .03	P 760.	etY .03
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	23		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	50. 10 5. 20.1 20.1	70. 3 20. 5.0 5.0	50. 10 5. 20.1 20.1				

----- ASTA 736

ARMATURE Long.	: TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
VALORI Max	Ea 1.35	P1280.	Ec -0.86	P1280.	etz .01	P 930.	etY .03
ARMATURE Tras.	Diam 8	N. braccia z 2	N. braccia y 2	N. tot.	35		
	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m				
	60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1				

PILASTRATA : N. 145 P039

CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
210	0.	115.	132	277
252	115.	230.	277	434
446	230.	410.	434	492
491	410.	580.	492	560
585	580.	760.	560	599
625	760.	930.	599	659
737	930.	1280.	659	714

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 210  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea -0.07 P 115. |Ec -0.07 P 115. |etZ .00 P 0. |etY .00 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 252  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.02 P 230. |Ec -1.00 P 230. |etZ .02 P 115. |etY .04 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 446  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 21 |L 180. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.21 P 410. |Ec -1.00 P 230. |etZ .03 P 230. |etY .05 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 24 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 50. 10 5. 20.1 20.1 | 80. 4 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 491  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 20 |L 170. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.21 P 410. |Ec -0.84 P 410. |etZ .01 P 410. |etY .05 P 410. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 50. 10 5. 20.1 20.1 | 70. 3 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 585  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 21 |L 180. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.16 P 760. |Ec -0.81 P 760. |etZ .01 P 580. |etY .03 P 580. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 24 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 50. 10 5. 20.1 20.1 | 80. 4 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 625  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 20 |L 170. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.16 P 760. |Ec -0.81 P 760. |etZ .01 P 760. |etY .04 P 760. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 50. 10 5. 20.1 20.1 | 70. 3 20. 5.0 5.0 | 50. 10 5. 20.1 20.1 |

----- ASTA 737  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.88 P1280. |Ec -0.51 P1280. |etZ .00 P 930. |etY .02 P1280. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |  
 | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m | Lung. N. Ps Az/m Ay/m |  
 | 60. 12 5. 20.1 20.1 | 230. 11 20. 5.0 5.0 | 60. 12 5. 20.1 20.1 |

PILASTRATA : N. 146 P040

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
212	0.	115.	141	285
254	115.	230.	285	443
483	230.	580.	443	563
616	580.	930.	563	662

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 212  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.18 P 0. |Ec -0.17 P 0. |etZ .01 P 0. |etY .01 P 0. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 254  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 13 |L 115. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 1.12 P 230. |Ec -0.78 P 230. |etZ .01 P 115. |etY .05 P 115. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 23 |  
 | Lung. N. Ps Az/m Ay/m |  
 | 115. 23 5. 20.1 20.1 |

----- ASTA 483  
 ARMATURE Long. : TOT | N 10 | A 20.10619 | % 1.34041 |  
 SNELLEZZA |roz 14. |roy 9. |Lamb 40 |L 350. |om 1.00 |cz 1.00 |cy 1.00 |  
 VALORI Max |Ea 0.98 P 230. |Ec -0.78 P 230. |etZ .01 P 230. |etY .03 P 230. |  
 ARMATURE Tras. |Diam 8 |N. braccia z 2 |N. braccia y 2 |N. tot. 35 |

Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1
----- ASTA 616		
ARMATURE Long. : TOT	N 10   A 20.10619   % 1.34041	
SNELLEZZA	roz 14.  roy 9.  Lamb 40  L 350.  om 1.00  cz 1.00  cy 1.00	
VALORI Max	Ea 1.03 P 930.  Ec -0.70 P 930.  etZ .01 P 580.  etY .02 P 580.	
ARMATURE Tras.  Diam	8  N. braccia z 2  N. braccia y 2  N. tot. 35	
Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

PILASTRATA : N. 147 P041 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
227	0.	230.	139	441
482	230.	580.	441	562
615	580.	930.	562	661

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 227		
ARMATURE Long. : TOT	N 10   A 20.10619   % 1.34041	
SNELLEZZA	roz 14.  roy 9.  Lamb 27  L 230.  om 1.00  cz 1.00  cy 1.00	
VALORI Max	Ea 0.69 P 230.  Ec -0.77 P 230.  etZ .00 P 0.  etY .01 P 0.	
ARMATURE Tras.  Diam	8  N. braccia z 2  N. braccia y 2  N. tot. 26	
Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
50. 10 5. 20.1 20.1	130. 6 20. 5.0 5.0	50. 10 5. 20.1 20.1

----- ASTA 482		
ARMATURE Long. : TOT	N 10   A 20.10619   % 1.34041	
SNELLEZZA	roz 14.  roy 9.  Lamb 40  L 350.  om 1.00  cz 1.00  cy 1.00	
VALORI Max	Ea 0.69 P 230.  Ec -0.77 P 230.  etZ .01 P 230.  etY .02 P 230.	
ARMATURE Tras.  Diam	8  N. braccia z 2  N. braccia y 2  N. tot. 35	
Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

----- ASTA 615		
ARMATURE Long. : TOT	N 10   A 20.10619   % 1.34041	
SNELLEZZA	roz 14.  roy 9.  Lamb 40  L 350.  om 1.00  cz 1.00  cy 1.00	
VALORI Max	Ea 0.92 P 930.  Ec -0.71 P 930.  etZ .01 P 580.  etY .02 P 580.	
ARMATURE Tras.  Diam	8  N. braccia z 2  N. braccia y 2  N. tot. 35	
Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

PILASTRATA : N. 148 P042 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
211	0.	115.	136	281
253	115.	230.	281	438
481	230.	580.	438	561
614	580.	930.	561	660

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 211		
ARMATURE Long. : TOT	N 10   A 20.10619   % 1.34041	
SNELLEZZA	roz 14.  roy 9.  Lamb 13  L 115.  om 1.00  cz 1.00  cy 1.00	
VALORI Max	Ea 0.14 P 0.  Ec -0.14 P 0.  etZ .01 P 0.  etY .01 P 0.	
ARMATURE Tras.  Diam	8  N. braccia z 2  N. braccia y 2  N. tot. 23	
Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	
115. 23 5. 20.1 20.1		

----- ASTA 253		
ARMATURE Long. : TOT	N 10   A 20.10619   % 1.34041	
SNELLEZZA	roz 14.  roy 9.  Lamb 13  L 115.  om 1.00  cz 1.00  cy 1.00	
VALORI Max	Ea 0.99 P 230.  Ec -0.64 P 230.  etZ .01 P 115.  etY .04 P 115.	
ARMATURE Tras.  Diam	8  N. braccia z 2  N. braccia y 2  N. tot. 23	
Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	
115. 23 5. 20.1 20.1		

----- ASTA 481		
ARMATURE Long. : TOT	N 10   A 20.10619   % 1.34041	
SNELLEZZA	roz 14.  roy 9.  Lamb 40  L 350.  om 1.00  cz 1.00  cy 1.00	
VALORI Max	Ea 0.76 P 230.  Ec -0.64 P 230.  etZ .01 P 230.  etY .02 P 230.	
ARMATURE Tras.  Diam	8  N. braccia z 2  N. braccia y 2  N. tot. 35	



Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

----- ASTA 614

ARMATURE Long. : TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.   roy 9.   Lamb 40   L 350.   om 1.00   cz 1.00   cy 1.00					
VALORI Max	Ea 0.81 P 930.   Ec -0.52 P 930.   etZ .01 P 580.   etY .02 P 580.					
ARMATURE Tras. Diam	8	N. braccia z 2	N. braccia y 2	N. tot.		35

Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

PILASTRATA : N. 149 P043 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
215	0.	115.	154	298
257	115.	230.	298	456
486	230.	580.	456	566
619	580.	930.	566	

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 215

ARMATURE Long. : TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.   roy 9.   Lamb 13   L 115.   om 1.00   cz 1.00   cy 1.00					
VALORI Max	Ea -0.05 P 115.   Ec -0.06 P 115.   etZ .00 P 0.   etY .00 P 0.					
ARMATURE Tras. Diam	8	N. braccia z 2	N. braccia y 2	N. tot.		23

Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
115. 23 5. 20.1 20.1		

----- ASTA 257

ARMATURE Long. : TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.   roy 9.   Lamb 13   L 115.   om 1.00   cz 1.00   cy 1.00					
VALORI Max	Ea 0.90 P 230.   Ec -0.76 P 230.   etZ .01 P 115.   etY .03 P 115.					
ARMATURE Tras. Diam	8	N. braccia z 2	N. braccia y 2	N. tot.		23

Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
115. 23 5. 20.1 20.1		

----- ASTA 486

ARMATURE Long. : TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.   roy 9.   Lamb 40   L 350.   om 1.00   cz 1.00   cy 1.00					
VALORI Max	Ea 0.90 P 230.   Ec -0.76 P 230.   etZ .01 P 230.   etY .02 P 230.					
ARMATURE Tras. Diam	8	N. braccia z 2	N. braccia y 2	N. tot.		35

Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

----- ASTA 619

ARMATURE Long. : TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.   roy 9.   Lamb 40   L 350.   om 1.00   cz 1.00   cy 1.00					
VALORI Max	Ea 0.85 P 930.   Ec -0.57 P 930.   etZ .01 P 580.   etY .01 P 580.					
ARMATURE Tras. Diam	8	N. braccia z 2	N. braccia y 2	N. tot.		35

Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
60. 12 5. 20.1 20.1	230. 11 20. 5.0 5.0	60. 12 5. 20.1 20.1

PILASTRATA : N. 150 P044 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
214	0.	115.	150	294
256	115.	230.	294	452
485	230.	580.	452	565
618	580.	930.	565	

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAY PRINC	16

----- ASTA 214

ARMATURE Long. : TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.   roy 9.   Lamb 13   L 115.   om 1.00   cz 1.00   cy 1.00					
VALORI Max	Ea 0.14 P 0.   Ec -0.15 P 0.   etZ .01 P 0.   etY .01 P 0.					
ARMATURE Tras. Diam	8	N. braccia z 2	N. braccia y 2	N. tot.		23

Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m	Lung. N. Ps Az/m Ay/m
115. 23 5. 20.1 20.1		

----- ASTA 256

ARMATURE Long. : TOT	N	10	A	20.10619	%	1.34041
SNELLEZZA	roz 14.   roy 9.   Lamb 13   L 115.   om 1.00   cz 1.00   cy 1.00					
VALORI Max	Ea 0.95 P 230.   Ec -0.74 P 230.   etZ .00 P 115.   etY .04 P 115.					

ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 23|  
 | Lung. N. Ps Az/m Ay/m|  
 | 115. 23 5. 20.1 20.1|

----- ASTA 485

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.75 P 230.|Ec -0.74 P 230.|etZ .01 P 230.|etY .02 P 230.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

----- ASTA 618

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.88 P 930.|Ec -0.62 P 930.|etZ .01 P 580.|etY .02 P 580.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

PILASTRATA : N. 151 P045 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
213	0.	115.	144	288
255	115.	230.	288	446
484	230.	580.	446	564
617	580.	930.	564	663

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

----- ASTA 213

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea -0.06 P 115.|Ec -0.07 P 115.|etZ .00 P 0.|etY .00 P 0.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 23|  
 | Lung. N. Ps Az/m Ay/m|  
 | 115. 23 5. 20.1 20.1|

----- ASTA 255

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.91 P 230.|Ec -0.77 P 230.|etZ .01 P 115.|etY .03 P 115.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 23|  
 | Lung. N. Ps Az/m Ay/m|  
 | 115. 23 5. 20.1 20.1|

----- ASTA 484

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.91 P 230.|Ec -0.77 P 230.|etZ .01 P 230.|etY .02 P 230.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

----- ASTA 617

ARMATURE Long. : TOT | N 10| A 20.10619| % 1.34041|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 VALORI Max |Ea 0.78 P 930.|Ec -0.47 P 930.|etZ .01 P 580.|etY .02 P 580.|  
 ARMATURE Tras. |Diam 8|N. braccia z 2|N. braccia y 2|N. tot. 35|  
 | Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m| Lung. N. Ps Az/m Ay/m|  
 | 60. 12 5. 20.1 20.1| 230. 11 20. 5.0 5.0| 60. 12 5. 20.1 20.1|

**VERIFICA PILASTRI SLE**

Unita` di misura:

DIM. SEZIONI: cm  
 FORZE: daN  
 LUNGHEZZE: cm  
 COPPIE: daNcm  
 TENSIONI: daN/cm2  
 BARRE: mm  
 AREA BARRE: cm2

PILASTRATA : N. 107 P001 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
186	0.	115.	1	157
228	115.	230.	157	301
448	230.	580.	301	503

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4



N	Descrizione	Soil.
15	Rara	1
16	Rara Ventox	2
17	Rara Ventoy	2
18	Frequente	1
19	Frequente Ventox	2
20	Frequente Ventoy	2
21	Quasi Perm	1

-----										PROGR.	0.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-4406.5	129503.0	0.0	-4084.7	1360.0	94.4			
20- 1	-3108.6	125904.2	0.0	-3437.4	1368.5	54.6			
21- 1	-2949.2	124161.1	0.0	-3366.1	1369.3	53.1			

TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sc Ty	364.5	0.0	-19.5	1.1	0.1		
20- 1	si	Sa	374.4	0.0	-18.7	1.1	0.0		
21- 1	si	St Tz	370.0	0.0	-18.4	1.1	0.0		

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	6448.7	-26902.5	0.0	-3653.5	1360.0	94.4			
17- 2	2993.8	-35880.7	0.0	-3781.3	1264.3	55.8			
21- 1	3159.7	-33313.9	0.0	-2934.8	1369.3	53.1			

TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sc Ty	-69.4	0.0	-5.2	1.1	0.1		
17- 2	si	Sa Sc	-79.9	0.0	-6.2	1.0	0.0		
21- 1	si	St Tz	-71.5	0.0	-5.6	1.1	0.0		

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
16- 1	4647.5	-25934.6	0.0	-4925.6	-436.2	-240.0			
17- 1	6448.7	-22102.0	0.0	-4856.6	-431.9	-366.8			
17- 2	2993.8	-28980.4	0.0	-4977.2	-435.5	-124.1			

TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
16- 1	si	St Tz	-76.1	0.0	-5.6	0.3	0.2		
17- 1	si	Sa Sc Ty	-72.6	0.0	-5.3	0.3	0.3		
17- 2	si	Sa Sc	-78.7	0.0	-5.8	0.3	0.1		

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
16- 1	-22951.6	24233.7	0.0	-4494.4	-436.2	-240.0			
17- 1	-35731.2	27567.0	0.0	-4425.4	-431.9	-366.8			

TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
16- 1	si	St Tz	-88.1	0.0	-6.6	0.3	0.2		
17- 1	si	Sa Sc Ty	-107.4	0.0	-8.1	0.3	0.3		

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-63212.4	-135450.7	0.0	-11395.1	-733.7	539.9			
17- 2	-38460.6	-179944.6	0.0	-11434.2	-1282.6	405.2			

TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sa Sc Ty	-353.3	0.0	-27.8	0.6	0.4		
17- 2	si	Sa St Sc Tz	-393.9	0.0	-32.0	1.0	0.3		

-----										PROGR.	580.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	125764.8	190300.2	0.0	-10082.6	-1127.8	539.9			

TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sa St Sc Tz Ty	599.9	0.0	-43.8	0.9	0.4		

PILASTRATA : N. 109 P003

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
188	0.	115.	8	164
230	115.	230.	164	308
450	230.	580.	308	505

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soil.
15	Rara	1
16	Rara Ventox	2
17	Rara Ventoy	2
18	Frequente	1
19	Frequente Ventox	2
20	Frequente Ventoy	2
21	Quasi Perm	1

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-5880.0	2127.2	0.0	-2220.7	16.7	89.6			
17- 2	-6753.4	3013.0	0.0	-2436.0	33.6	38.9			

TENSIONI										PROGR.	115.
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	St Ty	-26.4	0.0	-1.9	0.0	0.1				
17- 2	si	Sa Sctz	-30.1	0.0	-2.1	0.0	0.0				

-----										PROGR.	115.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	4428.1	201.2	0.0	-1789.5	16.7	89.6			
17- 2	-2276.2	-855.8	0.0	-2004.8	33.6	38.9			

TENSIONI										PROGR.	115.
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	St Ty	-19.2	0.0	-1.3	0.0	0.1				
17- 2	si	Sa Sctz	-19.9	0.0	-1.4	0.0	0.0				

-----										PROGR.	115.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-7645.1	10160.1	0.0	-2742.9	444.7	603.6			
17- 2	-16177.5	7267.9	0.0	-3018.9	349.1	1553.6			

TENSIONI										PROGR.	230.
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	St Ty	-41.8	0.0	-3.1	0.4	0.5				
17- 2	si	Sa St Sc Ty	-48.4	0.0	-3.5	0.3	1.2				

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	61764.4	-40984.4	0.0	-2311.6	444.7	603.6			
17- 2	162491.1	-32878.0	0.0	-2587.7	349.1	1553.6			

TENSIONI										PROGR.	230.
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	St Ty	216.6	0.0	-13.8	0.4	0.5				
17- 2	si	Sa St Sc Ty	550.8	0.0	-24.9	0.3	1.2				

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 2	187684.8	-6172.9	0.0	-7345.6	-112.6	-1648.3			
20- 1	61848.8	-18550.0	0.0	-5534.8	-186.4	-672.4			

TENSIONI										PROGR.	580.
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 2	si	Sa St Sc Ty	328.1	0.0	-22.7	0.1	1.3				
20- 1	si	Tz	-130.1	0.0	-9.6	0.1	0.5				

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 2	-328883.2	33250.1	0.0	-6033.1	-112.6	-1303.5			
20- 1	-185543.2	46697.4	0.0	-4222.3	-186.4	-741.3			

TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		

17- 2 si SaStSc Ty	988.1	0.0	-44.4	0.1	1.0
20- 1 si  Tz	577.8	0.0	-29.7	0.1	0.6

PILASTRATA : N. 110 P004 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
189	0.	115.	15	171
231	115.	230.	171	315
451	230.	580.	315	506

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara Ventox	2
17	Rara Ventoy	2
18	Frequente	1
19	Frequente Ventox	2
20	Frequente Ventoy	2
21	Quasi Perm	1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 0.

Trasv. Z  N. 12 A 6.0	SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-13180.8	-77684.1	0.0	-4102.0	-1063.6	202.5
20- 1	-9263.9	-83602.2	0.0	-3546.2	-1121.9	124.7
21- 1	-8093.2	-84648.5	0.0	-3466.1	-1137.4	97.3

TENSIONI

Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	Ty	172.3	0.0	-13.3	0.8	0.2
20- 1 si	Sc	210.1	0.0	-13.7	0.9	0.1
21- 1 si	SaSt Tz	215.3	0.0	-13.6	0.9	0.1

PROGR. 115.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 115.

Trasv. Z  N. 12 A 6.0	SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	10112.1	44634.1	0.0	-3670.7	-1063.6	202.5
21- 1	3099.2	46148.8	0.0	-3034.8	-1137.4	97.3

TENSIONI

Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	Sa Sc Ty	-102.0	0.0	-8.1	0.8	0.2
21- 1 si	St Tz	-91.8	0.0	-7.5	0.9	0.1

PROGR. 115.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 230.

Trasv. Z  N. 12 A 6.0	SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	10112.1	39263.4	0.0	-5124.0	590.3	-450.1
17- 2	-6847.3	39090.9	0.0	-5125.1	577.5	598.5

TENSIONI

Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTz	-100.8	0.0	-7.6	0.5	0.3
17- 2 si	Ty	-97.1	0.0	-7.3	0.5	0.5

PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 230.

Trasv. Z  N. 12 A 6.0	SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-41643.7	-28624.1	0.0	-4692.8	590.3	-450.1
17- 2	61976.1	-27326.7	0.0	-4693.8	577.5	598.5

TENSIONI

Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	St Tz	-117.5	0.0	-8.9	0.5	0.3
17- 2 si	Sa Sc Ty	-142.8	0.0	-10.8	0.5	0.5

PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 580.

Trasv. Z  N. 12 A 6.0	SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 2	94569.1	102111.9	0.0	-11293.8	736.3	-827.4

TENSIONI

Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2 si	SaStScTzTy	-334.0	0.0	-25.7	0.6	0.6

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 580.

Trasv. Z  N. 12 A 6.0	SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY	
17- 2	-195036.3	-155585.2	0.0	-9981.3	736.3	-827.4	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	SaStScTzTy	642.8	0.0	-46.7	0.6	0.6

PILASTRATA : N. 111 P005 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.					
216	0.	230.	16	316					
452	230.	580.	316	507					
Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	sol1.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	0.			
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	-55371.5	73915.7	0.0	-40699.5	311.8	605.7								
17- 2	-53085.9	30993.9	0.0	-40844.5	-5.9	607.9								

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sa	St	Tz	Ty	-478.8	0.0	-33.8	0.2	0.5
17- 2	si	Sa	St	Tz	Ty	-427.6	0.0	-29.5	0.0	0.5

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	230.			
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI												
Caso	MZ	MY	MT	N	TZ	TY						
17- 1	83934.4	2201.8	0.0	-39837.0	311.8	605.7						
17- 2	86740.2	32343.3	0.0	-39982.0	-5.9	607.9						
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	St	Tz	Ty	-412.7	0.0	-28.2	0.2	0.5		
17- 2	si	Sa	St	Tz	Ty	-451.8	0.0	-31.5	0.0	0.5		

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	230.			
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI												
Caso	MZ	MY	MT	N	TZ	TY						
17- 1	-77874.2	-122922.4	0.0	-20705.7	-708.6	583.0						
17- 2	-66894.4	-161436.4	0.0	-20806.6	-935.5	522.0						
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	St	Tz	Ty	-393.3	0.0	-29.3	0.6	0.4		
17- 2	si	Sa	St	Tz	Ty	-439.9	0.0	-33.3	0.7	0.4		

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	580.			
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI												
Caso	MZ	MY	MT	N	TZ	TY						
17- 1	126165.0	125075.9	0.0	-19393.2	-708.6	583.0						
17- 2	115810.6	165972.3	0.0	-19494.1	-935.5	522.0						
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	St	Tz	Ty	-441.3	0.0	-33.2	0.6	0.4		
17- 2	si	Sa	St	Tz	Ty	-498.0	0.0	-38.1	0.7	0.4		

PILASTRATA : N. 112 P006 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.					
190	0.	115.	17	172					
232	115.	230.	172	317					
453	230.	580.	317	508					
Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	sol1.
15	Rara	1
16	Rara VentoX	2

17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	-8912.9	102827.2	0.0	-4921.0	1320.7	156.1								
17- 2	-962.1	106854.8	0.0	-4986.7	1347.0	-81.4								
21- 1	-5335.8	104410.5	0.0	-4025.9	1337.1	47.9								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 1	si	Sc Ty	232.6	0.0	-16.6	1.0	0.1							
17- 2	si	St Tz	232.8	0.0	-16.2	1.1	0.1							
21- 1	si	Sa	267.4	0.0	-16.2	1.1	0.0							

-----										PROGR.	115.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	9041.0	-49057.2	0.0	-4489.8	1320.7	156.1								
17- 2	-10328.6	-48053.1	0.0	-4555.5	1347.0	-81.4								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 1	si	Sc Ty	-111.6	0.0	-8.7	1.0	0.1							
17- 2	si	SaSt Tz	-111.8	0.0	-8.7	1.1	0.1							

-----										PROGR.	115.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	9041.0	-34819.7	0.0	-5256.4	-197.4	-492.0								
17- 2	-10328.6	-33684.2	0.0	-5260.8	-189.5	797.7								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 1	si	Sa Sctz	-94.2	0.0	-7.0	0.2	0.4							
17- 2	si	St Ty	-93.9	0.0	-7.0	0.2	0.6							

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	-47533.9	-12120.4	0.0	-4825.1	-197.4	-492.0								
17- 2	81407.8	-11891.2	0.0	-4829.5	-189.5	797.7								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 1	si	Tz	-99.6	0.0	-7.3	0.2	0.4							
17- 2	si	SaStSc Ty	-145.5	0.0	-10.9	0.2	0.6							

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 2	93180.0	-2588.7	0.0	-13366.8	-57.5	-536.2								
21- 1	20683.7	-9166.5	0.0	-9275.0	-95.9	-133.9								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 2	si	SaStSc Ty	-198.5	0.0	-14.0	0.0	0.4							
21- 1	si	Tz	-107.3	0.0	-7.5	0.1	0.1							

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 2	-94479.8	17531.7	0.0	-12054.3	-57.5	-536.2								
21- 1	-26177.7	24414.4	0.0	-7962.5	-95.9	-133.9								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 2	si	SaStSc Ty	-206.5	0.0	-14.9	0.0	0.4							
21- 1	si	Tz	-119.0	0.0	-8.6	0.1	0.1							

PILASTRATA : N. 113 P007 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
191	0.	115.	24	179
233	115.	230.	179	324
454	230.	580.	324	509
587	580.	930.	509	610



705	930.	1280.	610	674								
Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4			
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.			

CASI DI CARICO

N	Descrizione	Soll.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 0.**

SNELLEZZA | roz 14. | roy 9. | Lamb 13 | L 115. | om 1.00 | cz 1.00 | cy 1.00 | **PROGR. 0.**

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
16- 1	-8304.5	-10346.0	0.0	-4645.1	-155.6	155.1
17- 1	-7335.8	-10361.6	0.0	-4502.4	-155.3	160.4
17- 2	-9111.5	-10305.9	0.0	-4753.5	-155.3	152.6

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
16- 1	si	St Tz	-58.7	0.0	-4.2	0.1	0.1
17- 1	si	Ty	-56.6	0.0	-4.0	0.1	0.1
17- 2	si	Sa Sc	-60.2	0.0	-4.3	0.1	0.1

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 115.**

SNELLEZZA | roz 14. | roy 9. | Lamb 13 | L 115. | om 1.00 | cz 1.00 | cy 1.00 | **PROGR. 115.**

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
16- 1	9531.8	7548.3	0.0	-4213.9	-155.6	155.1
17- 1	11107.0	7493.9	0.0	-4071.1	-155.3	160.4

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
16- 1	si	St Tz	-52.8	0.0	-3.7	0.1	0.1
17- 1	si	Sa Sc Ty	-53.0	0.0	-3.8	0.1	0.1

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 115.**

SNELLEZZA | roz 14. | roy 9. | Lamb 13 | L 115. | om 1.00 | cz 1.00 | cy 1.00 | **PROGR. 115.**

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 2	-2065.0	4211.3	0.0	-7381.0	-27.0	735.2
21- 1	-49.5	2929.7	0.0	-6407.0	-54.9	436.5

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	SaStSc Ty	-68.9	0.0	-4.7	0.0	0.6
21- 1	si	Tz	-57.4	0.0	-3.9	0.0	0.3

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 230.**

SNELLEZZA | roz 14. | roy 9. | Lamb 13 | L 115. | om 1.00 | cz 1.00 | cy 1.00 | **PROGR. 230.**

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 2	82477.3	7318.9	0.0	-6949.7	-27.0	735.2
21- 1	50152.4	9243.6	0.0	-5975.8	-54.9	436.5

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	SaStSc Ty	-145.6	0.0	-10.6	0.0	0.6
21- 1	si	Tz	-106.2	0.0	-7.7	0.0	0.3

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 230.**

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 | **PROGR. 230.**

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-16517.7	-45023.3	0.0	-21956.5	-117.0	-118.1
17- 2	67998.3	-43739.3	0.0	-22566.8	-110.5	-766.3

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Tz	-252.5	0.0	-17.8	0.1	0.1
17- 2	si	SaStSc Ty	-301.9	0.0	-21.5	0.1	0.6

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 580.**

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 | **PROGR. 580.**

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-122088.4	-4084.9	0.0	-20644.0	-117.0	-485.2
17- 2	-135942.3	-5071.5	0.0	-21254.3	-110.5	-399.1

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St TzTy	-287.2	0.0	-20.2	0.1	0.4



SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	42173.4	15503.8	0.0	-6979.6	-244.1	1676.2				
17- 2	56793.3	14927.9	0.0	-7146.4	-233.0	1657.0				
21- 1	56347.8	14259.5	0.0	-6091.5	-224.2	1847.4				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Tz	-114.5	0.0	-8.3	0.2	1.3			
17- 2	si	Sa Sc	-128.9	0.0	-9.4	0.2	1.3			
21- 1	si	St Ty	-120.1	0.0	-8.8	0.2	1.4			
							PROGR.	115.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 13	L	115.	om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	48016.6	15503.8	0.0	-12049.3	600.7	-1514.0				
17- 2	60356.2	14927.9	0.0	-12268.4	585.3	-1400.9				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	St TzTy	-162.4	0.0	-11.5	0.5	1.2			
17- 2	si	Sa Sc	-174.5	0.0	-12.4	0.5	1.1			
							PROGR.	230.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 13	L	115.	om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-126090.2	-53576.2	0.0	-11618.0	600.7	-1514.0				
17- 2										
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Sa StScTzTy	-291.6	0.0	-21.8	0.5	1.2			
17- 2	si									
							PROGR.	230.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	206638.2	-58289.0	0.0	-33961.9	-362.4	-1205.8				
17- 2	276563.5	-56972.6	0.0	-34601.2	-354.8	-1788.4				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Tz	-538.3	0.0	-38.7	0.3	0.9			
17- 2	si	SaStSc Ty	-606.1	0.0	-43.8	0.3	1.4			
							PROGR.	580.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-279635.3	68558.3	0.0	-32649.4	-362.4	-1572.9				
17- 2	-285136.5	67224.1	0.0	-33288.7	-354.8	-1421.3				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	St TzTy	-609.6	0.0	-44.3	0.3	1.2			
17- 2	si	Sa Sc	-618.0	0.0	-44.9	0.3	1.1			
							PROGR.	580.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	215918.0	-46420.3	0.0	-21224.6	-271.8	-1170.7				
17- 2	258914.9	-44834.2	0.0	-21621.0	-260.2	-1633.3				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Tz	-436.0	0.0	-31.9	0.2	0.9			
17- 2	si	SaStSc Ty	-488.2	0.0	-35.9	0.2	1.3			
							PROGR.	930.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-258079.9	48703.0	0.0	-19912.1	-271.8	-1537.9				
17- 2										
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	SaStScTzTy	-487.0	0.0	-36.1	0.2	1.2			
17- 2	si									
							PROGR.	930.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 2	296666.7	-43621.5	0.0	-8806.5	-254.7	-1989.3				
17- 1										
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 2	si	SaStScTzTy	733.8	0.0	-41.8	0.2	1.5			
17- 1	si									

-----										PROGR.	1280.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-304036.0	43956.9	0.0	-7382.1	-250.5	-1724.1					
17- 2	-335351.9	45515.6	0.0	-7494.0	-254.7	-1622.2					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 1 si	SaStTy	841.0	0.0	-43.1	0.2	1.3					
17- 2 si	Sa SctZ	957.4	0.0	-47.1	0.2	1.3					

PILASTRATA : N. 115 P009 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.							
193	0.	115.	32	187							
235	115.	230.	187	332							
447	230.	501.	332	498							
492	501.	580.	498	511							
586	580.	851.	511	605							
626	851.	930.	605	612							
707	930.	1280.	612	676							
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Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4		
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.		

CASI DI CARICO		
N	Descrizione	Solli.
15	Rara	1
16	Rara Ventox	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente Ventox	2
20	Frequente VentoY	2
21	Quasi Perm	1

-----										PROGR.	0.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 2	-4286.8	18955.7	0.0	-12714.6	303.5	45.0					
21- 1	-9605.8	11438.0	0.0	-11604.6	224.6	60.6					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 2 si	SaStSctZ	-133.2	0.0	-9.3	0.2	0.0					
21- 1 si	Ty	-119.7	0.0	-8.3	0.2	0.0					

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-8523.2	-18212.1	0.0	-13546.3	230.5	-26.0					
17- 2	883.6	-15945.4	0.0	-12283.3	303.5	45.0					
21- 1	-2636.2	-14388.1	0.0	-11173.3	224.6	60.6					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 1 si	Sa Sc	-143.1	0.0	-10.0	0.2	0.0					
17- 2 si	St Tz	-123.0	0.0	-8.5	0.2	0.0					
21- 1 si	Ty	-113.3	0.0	-7.9	0.2	0.0					

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-6084.4	-25416.0	0.0	-13840.4	-286.5	-1394.3					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 1 si	SaStSctZ	-151.8	0.0	-10.7	0.2	1.1					

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-166428.1	7525.7	0.0	-13409.2	-286.5	-1394.3					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 1 si	SaStSctZ	-280.7	0.0	-20.4	0.2	1.1					

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 31 L	271.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											

Caso	MZ	MY	MT	N	TZ	TY															
17- 1	-32975.9	7523.9	0.0	-27036.9	156.6	522.1															
17- 2	74551.7	12902.3	0.0	-28782.8	194.0	-88.5															
TENSIONI																					
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty														
17- 1	si	St	Ty	0.0	-18.1	0.1	0.4														
17- 2	si	Sa	SCTz	0.0	-22.4	0.2	0.1														
-----																					
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1												
					Trasv. Z	N.	12	A	6.0												
SNELLEZZA							roz	14.	roy	9.	Lamb	31	L	271.	om	1.00	cz	1.00	cy	1.00	
SOLLECITAZIONI																					
Caso	MZ	MY	MT	N	TZ	TY															
17- 1	108511.3	-34924.1	0.0	-26020.6	156.6	522.1															
17- 2	50563.7	-39659.3	0.0	-27766.5	194.0	-88.5															
TENSIONI																					
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty														
17- 1	si	Sa	St	Ty	0.0	-25.3	0.1	0.4													
17- 2	si	Tz	0.0	0.0	-22.9	0.2	0.1														
-----																					
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1												
					Trasv. Z	N.	12	A	6.0												
SNELLEZZA							roz	14.	roy	9.	Lamb	9	L	79.	om	1.00	cz	1.00	cy	1.00	
SOLLECITAZIONI																					
Caso	MZ	MY	MT	N	TZ	TY															
17- 1	98576.8	-58957.9	0.0	-25498.7	-2057.0	-662.3															
19- 1	60487.6	-40128.4	0.0	-23115.3	-1586.6	-960.3															
TENSIONI																					
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty														
17- 1	si	Sa	St	Ty	0.0	-26.7	1.6	0.5													
19- 1	si	Ty	-295.6	0.0	-21.0	1.3	0.7														
-----																					
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	18	A	9.0												
					Trasv. Z	N.	10	A	5.0												
SNELLEZZA							roz	14.	roy	9.	Lamb	9	L	79.	om	1.00	cz	1.00	cy	1.00	
SOLLECITAZIONI																					
Caso	MZ	MY	MT	N	TZ	TY															
17- 1	46253.0	103544.7	0.0	-25202.5	-2057.0	-662.3															
19- 1	-15379.5	85210.3	0.0	-22819.0	-1586.6	-960.3															
TENSIONI																					
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty														
17- 1	si	Sa	St	Ty	0.0	-27.4	1.6	0.5													
19- 1	si	Ty	-306.0	0.0	-22.2	1.3	0.7														
-----																					
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	18	A	9.0												
					Trasv. Z	N.	10	A	5.0												
SNELLEZZA							roz	14.	roy	9.	Lamb	31	L	271.	om	1.00	cz	1.00	cy	1.00	
SOLLECITAZIONI																					
Caso	MZ	MY	MT	N	TZ	TY															
17- 1	-231221.4	38003.8	0.0	-14180.0	254.5	1471.8															
TENSIONI																					
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty														
17- 1	si	Sa	St	Ty	0.0	-31.6	0.2	1.1													
-----																					
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1												
					Trasv. Z	N.	12	A	6.0												
SNELLEZZA							roz	14.	roy	9.	Lamb	31	L	271.	om	1.00	cz	1.00	cy	1.00	
SOLLECITAZIONI																					
Caso	MZ	MY	MT	N	TZ	TY															
17- 1	129111.4	-30971.6	0.0	-13163.8	254.5	1187.5															
TENSIONI																					
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty														
17- 1	si	Sa	St	Ty	0.0	-19.6	0.2	0.9													
-----																					
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1												
					Trasv. Z	N.	12	A	6.0												
SNELLEZZA							roz	14.	roy	9.	Lamb	9	L	79.	om	1.00	cz	1.00	cy	1.00	
SOLLECITAZIONI																					
Caso	MZ	MY	MT	N	TZ	TY															
17- 1	97672.6	-66128.4	0.0	-13070.4	-1296.9	-2018.6															
TENSIONI																					
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty														
17- 1	si	Sa	St	Ty	0.0	-21.1	1.0	1.6													
-----																					
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	18	A	9.0												
					Trasv. Z	N.	10	A	5.0												
SNELLEZZA							roz	14.	roy	9.	Lamb	9	L	79.	om	1.00	cz	1.00	cy	1.00	
SOLLECITAZIONI																					
Caso	MZ	MY	MT	N	TZ	TY															
17- 1	-65073.1	36327.9	0.0	-12774.1	-1296.9	-2101.5															
TENSIONI																					
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty														
17- 1	si	Sa	St	Ty	0.0	-15.1	1.0	1.6													
-----																					
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	18	A	9.0												
					Trasv. Z	N.	10	A	5.0												
SNELLEZZA							roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00	
SOLLECITAZIONI																					

Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-22139.7	6481.2	0.0	-6739.0	-50.3	21.9	
17- 2	44329.3	7315.1	0.0	-7283.2	-17.6	-660.1	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Tz	-84.1	0.0	-5.9	0.0	0.0
17- 2	si	SaStSc Ty	-109.3	0.0	-7.8	0.0	0.5

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-78737.0	24103.1	0.0	-5426.5	-50.3	-345.3	
17- 2	-122463.2	13463.3	0.0	-5970.7	-17.6	-293.0	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St TzTy	-162.5	0.0	-12.3	0.0	0.3
17- 2	si	Sa Sc	-211.0	0.0	-16.0	0.0	0.2

PILASTRATA : N. 116 P010 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
583	0.	138.	513	573
623	138.	350.	573	613
708	350.	700.	613	677

  

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	700.	700.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		sol1.
N	Descrizione	
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	16	L	138.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	172636.5	-69391.4	0.0	-16098.1	-594.0	-1891.2								
17- 2	163609.2	-85137.9	0.0	-16973.7	-958.0	-1660.7								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 1	si	St Ty	-393.5	0.0	-29.4	0.5	1.5							
17- 2	si	Sa ScTz	-410.9	0.0	-30.8	0.8	1.3							

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	16	L	138.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	-88346.5	29455.9	0.0	-15580.6	-838.6	-1891.2								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 1	si	SaStScTzTy	-244.4	0.0	-17.6	0.7	1.5							

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	24	L	212.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	-77001.8	32746.2	0.0	-14953.9	78.8	615.1								
17- 2	-76598.8	8863.9	0.0	-15335.4	-384.2	577.8								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 1	si	Sa Sc Ty	-232.9	0.0	-16.8	0.1	0.5							
17- 2	si	St Tz	-207.7	0.0	-14.6	0.3	0.4							

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	24	L	212.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
17- 1	53400.1	55854.7	0.0	-14158.9	-296.8	615.1								
TENSIONI														
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty							
17- 1	si	SaStScTzTy	-232.5	0.0	-17.0	0.2	0.5							

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	51658.2	-63436.0	0.0	-6852.0	-114.3	-362.6
17- 2	43208.4	-117015.5	0.0	-7117.3	-892.2	-290.5

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Ty	-197.9	0.0	-15.3	0.1	0.3
17- 2	si	SaStScTz	-281.4	0.0	-22.8	0.7	0.2

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-75252.6	85112.8	0.0	-5539.5	-734.5	-362.6

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStScTzTy	-270.4	0.0	-21.6	0.6	0.3

PILASTRATA : N. 117 P011

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
194	0.	115.	35	190
236	115.	230.	190	335
456	230.	580.	335	514
589	580.	930.	514	614
709	930.	1280.	614	678

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	147565.0	28747.7	0.0	-15241.7	364.7	-1208.3
17- 2	129466.5	29777.0	0.0	-14794.1	367.9	-1043.4

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-298.1	0.0	-21.7	0.3	0.9
17- 2	si	Tz	-277.3	0.0	-20.2	0.3	0.8

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	8616.1	-13196.1	0.0	-14810.4	364.7	-1208.3
17- 2	9476.7	-12531.0	0.0	-14362.9	367.9	-1043.4

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-147.9	0.0	-10.2	0.3	0.9
17- 2	si	Tz	-144.1	0.0	-9.9	0.3	0.8

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	19168.8	-14641.9	0.0	-14252.3	-722.3	-429.1

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStScTzTy	-154.3	0.0	-10.7	0.6	0.3

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-30173.0	68420.9	0.0	-13821.0	-722.3	-429.1

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStScTzTy	-223.8	0.0	-16.5	0.6	0.3

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 2	116361.3	-52194.7	0.0	-35698.0	-176.5	-857.1			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 2	si	SaStScTzTy	-465.4	0.0	-33.0	0.1	0.7		
							PROGR.	580.	
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-178201.2	-41931.8	0.0	-33689.0	144.9	-811.6			
17- 2	-183624.5	9573.8	0.0	-34385.5	-176.5	-857.1			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sa Sc	-491.4	0.0	-35.0	0.1	0.6		
17- 2	si	St TzTy	-464.1	0.0	-32.6	0.1	0.7		
							PROGR.	580.	
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	222717.3	34669.2	0.0	-18201.0	160.1	-1236.0			
17- 2	218391.7	-17980.6	0.0	-18722.2	-435.4	-1219.0			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sa Sc	-412.5	0.0	-30.3	0.1	1.0		
17- 2	si	St TzTy	-385.2	0.0	-28.0	0.3	0.9		
							PROGR.	930.	
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
16- 1	-208794.0	58120.1	0.0	-17182.1	-147.3	-1225.4			
17- 1	-209884.3	57506.7	0.0	-16888.5	-290.6	-1236.0			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
16- 1	si	Sa	-426.7	0.0	-31.8	0.1	0.9		
17- 1	si	StScTzTy	-426.3	0.0	-31.8	0.2	1.0		
							PROGR.	930.	
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	241625.7	-95351.8	0.0	-7405.3	-374.4	-1452.8			
17- 2	238508.9	-151910.6	0.0	-7561.2	-1037.2	-1437.3			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sa Ty	736.7	0.0	-43.9	0.3	1.1		
17- 2	si	SaStScTzTy	888.7	0.0	-52.8	0.8	1.1		
							PROGR.	1280.	
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-266864.1	114552.7	0.0	-6092.8	-825.1	-1452.8			
17- 2	-264556.6	132238.8	0.0	-6248.7	-586.5	-1437.3			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	St TzTy	958.2	0.0	-50.8	0.7	1.1		
17- 2	si	Sa Sc	992.8	0.0	-53.4	0.5	1.1		

PILASTRATA : N. 118 P012 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.					
195	0.	115.	39	194					
237	115.	230.	194	339					
457	230.	580.	339	515					
590	580.	930.	515	615					
710	930.	1280.	615	679					
Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	sol1
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2



21 Quasi Perm										1									
ARMATURE Long. tot.										PROGR. 0.									
N. 10 A 20.1										Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0										Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00										SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI										SOLLECITAZIONI									
Caso   MZ   MY   MT   N   TZ   TY										Caso   MZ   MY   MT   N   TZ   TY									
17- 2   13324.7   72185.0   0.0   -7516.2   1108.8   -220.4										17- 2   13324.7   72185.0   0.0   -7516.2   1108.8   -220.4									
21- 1   11260.6   87349.2   0.0   -6477.9   1204.6   -180.1										21- 1   11260.6   87349.2   0.0   -6477.9   1204.6   -180.1									
TENSIONI										TENSIONI									
Caso Ver  massimi   Sa   St   Sc   Tz   Ty										Caso Ver  massimi   Sa   St   Sc   Tz   Ty									
17- 2   si   Sa Sc Ty   -168.7   0.0   -13.0   0.9   0.2										17- 2   si   Sa Sc Ty   -168.7   0.0   -13.0   0.9   0.2									
21- 1   si   SaStScTz   -185.2   0.0   -14.8   1.0   0.1										21- 1   si   SaStScTz   -185.2   0.0   -14.8   1.0   0.1									
ARMATURE Long. tot.										PROGR. 115.									
N. 10 A 20.1										Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0										Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00										SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI										SOLLECITAZIONI									
Caso   MZ   MY   MT   N   TZ   TY										Caso   MZ   MY   MT   N   TZ   TY									
17- 2   -12018.9   -55324.3   0.0   -7085.0   1108.8   -220.4										17- 2   -12018.9   -55324.3   0.0   -7085.0   1108.8   -220.4									
21- 1   -9450.9   -51184.5   0.0   -6046.7   1204.6   -180.1										21- 1   -9450.9   -51184.5   0.0   -6046.7   1204.6   -180.1									
TENSIONI										TENSIONI									
Caso Ver  massimi   Sa   St   Sc   Tz   Ty										Caso Ver  massimi   Sa   St   Sc   Tz   Ty									
17- 2   si   Sa Sc Ty   -138.8   0.0   -10.5   0.9   0.2										17- 2   si   Sa Sc Ty   -138.8   0.0   -10.5   0.9   0.2									
21- 1   si   St Tz   -123.6   0.0   -9.4   1.0   0.1										21- 1   si   St Tz   -123.6   0.0   -9.4   1.0   0.1									
ARMATURE Long. tot.										PROGR. 115.									
N. 10 A 20.1										Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0										Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00										SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI										SOLLECITAZIONI									
Caso   MZ   MY   MT   N   TZ   TY										Caso   MZ   MY   MT   N   TZ   TY									
17- 1   -10133.7   -41105.7   0.0   -10660.9   -425.5   412.6										17- 1   -10133.7   -41105.7   0.0   -10660.9   -425.5   412.6									
17- 2   -12018.9   -44165.5   0.0   -10929.4   -335.1   533.6										17- 2   -12018.9   -44165.5   0.0   -10929.4   -335.1   533.6									
TENSIONI										TENSIONI									
Caso Ver  massimi   Sa   St   Sc   Tz   Ty										Caso Ver  massimi   Sa   St   Sc   Tz   Ty									
17- 1   si   St Tz   -147.1   0.0   -10.7   0.3   0.3										17- 1   si   St Tz   -147.1   0.0   -10.7   0.3   0.3									
17- 2   si   Sa Sc Ty   -154.6   0.0   -11.3   0.3   0.4										17- 2   si   Sa Sc Ty   -154.6   0.0   -11.3   0.3   0.4									
ARMATURE Long. tot.										PROGR. 230.									
N. 10 A 20.1										Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0										Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00										SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI										SOLLECITAZIONI									
Caso   MZ   MY   MT   N   TZ   TY										Caso   MZ   MY   MT   N   TZ   TY									
17- 1   37316.9   7821.2   0.0   -10229.6   -425.5   412.6										17- 1   37316.9   7821.2   0.0   -10229.6   -425.5   412.6									
17- 2   49348.8   -5632.8   0.0   -10498.1   -335.1   533.6										17- 2   49348.8   -5632.8   0.0   -10498.1   -335.1   533.6									
TENSIONI										TENSIONI									
Caso Ver  massimi   Sa   St   Sc   Tz   Ty										Caso Ver  massimi   Sa   St   Sc   Tz   Ty									
17- 1   si   St Tz   -128.5   0.0   -9.0   0.3   0.3										17- 1   si   St Tz   -128.5   0.0   -9.0   0.3   0.3									
17- 2   si   Sa Sc Ty   -138.9   0.0   -9.8   0.3   0.4										17- 2   si   Sa Sc Ty   -138.9   0.0   -9.8   0.3   0.4									
ARMATURE Long. tot.										PROGR. 230.									
N. 10 A 20.1										Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0										Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00										SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI										SOLLECITAZIONI									
Caso   MZ   MY   MT   N   TZ   TY										Caso   MZ   MY   MT   N   TZ   TY									
17- 2   41992.5   -34426.1   0.0   -36104.7   -411.6   -168.0										17- 2   41992.5   -34426.1   0.0   -36104.7   -411.6   -168.0									
TENSIONI										TENSIONI									
Caso Ver  massimi   Sa   St   Sc   Tz   Ty										Caso Ver  massimi   Sa   St   Sc   Tz   Ty									
17- 2   si   SaStScTzTy   -381.8   0.0   -26.5   0.3   0.1										17- 2   si   SaStScTzTy   -381.8   0.0   -26.5   0.3   0.1									
ARMATURE Long. tot.										PROGR. 580.									
N. 10 A 20.1										Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0										Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00										SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI										SOLLECITAZIONI									
Caso   MZ   MY   MT   N   TZ   TY										Caso   MZ   MY   MT   N   TZ   TY									
17- 1   -6414.7   15620.8   0.0   -34014.3   -152.2   -103.3										17- 1   -6414.7   15620.8   0.0   -34014.3   -152.2   -103.3									
17- 2   -16815.2   30766.1   0.0   -34792.2   39.1   -168.0										17- 2   -16815.2   30766.1   0.0   -34792.2   39.1   -168.0									
TENSIONI										TENSIONI									
Caso Ver  massimi   Sa   St   Sc   Tz   Ty										Caso Ver  massimi   Sa   St   Sc   Tz   Ty									
17- 1   si   St Tz   -310.5   0.0   -21.1   0.1   0.1										17- 1   si   St Tz   -310.5   0.0   -21.1   0.1   0.1									
17- 2   si   Sa Sc Ty   -344.1   0.0   -23.7   0.0   0.1										17- 2   si   Sa Sc Ty   -344.1   0.0   -23.7   0.0   0.1									
ARMATURE Long. tot.										PROGR. 580.									
N. 10 A 20.1										Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0										Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00										SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI										SOLLECITAZIONI									
Caso   MZ   MY   MT   N   TZ   TY										Caso   MZ   MY   MT   N   TZ   TY									
17- 1   -30634.4   -12111.5   0.0   -22249.8   81.2   157.1										17- 1   -30634.4   -12111.5   0.0   -22249.8   81.2   157.1									
17- 2   -28301.9   -64793.6   0.0   -22679.3   -522.6   137.7										17- 2   -28301.9   -64793.6   0.0   -22679.3   -522.6   137.7									
TENSIONI										TENSIONI									
Caso Ver  massimi   Sa   St   Sc   Tz   Ty										Caso Ver  massimi   Sa   St   Sc   Tz   Ty									
17- 1   si   St Tz   -228.8   0.0   -15.7   0.1   0.1										17- 1   si   St Tz   -228.8   0.0   -15.7   0.1   0.1									
17- 2   si   SaStScTz   -292.3   0.0   -21.0   0.4   0.1										17- 2   si   SaStScTz   -292.3   0.0   -21.0   0.4   0.1									
ARMATURE Long. tot.										PROGR. 930.									
N. 10 A 20.1										Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0										Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00										SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
16-1	21982.4	40355.8	0.0	-21176.4	-229.0	146.9
17-1	24354.4	38357.0	0.0	-20937.3	-369.6	157.1

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
16-1	si	Sa Sc	-245.3	0.0	-17.3	0.2	0.1
17-1	si	St TzTy	-243.1	0.0	-17.2	0.3	0.1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17-1	-2687.7	-34283.1	0.0	-9080.4	-59.6	29.5
17-2	111.3	-93047.6	0.0	-9206.1	-734.6	9.8

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17-1	si	St TzTy	-119.2	0.0	-8.6	0.0	0.0
17-2	si	SaStScTz	-194.8	0.0	-15.1	0.6	0.0

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17-1	7644.5	65448.5	0.0	-7767.9	-510.3	29.5
17-2	3535.4	85183.5	0.0	-7893.6	-283.9	9.8

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17-1	si	St TzTy	-153.4	0.0	-11.7	0.4	0.0
17-2	si	Sa Sc	-179.3	0.0	-14.0	0.2	0.0

PILASTRATA : N. 119 P013

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
196	0.	115.	43	198
238	115.	230.	198	343
458	230.	580.	343	516
591	580.	930.	516	616
711	930.	1280.	616	680

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17-1	-1290.7	109512.4	0.0	-7404.1	1324.8	-0.1
17-2	-1424.4	94578.1	0.0	-7552.8	1251.3	-12.3

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17-1	si	SaStScTz	-210.5	0.0	-17.1	1.1	0.0
17-2	si	Ty	-189.0	0.0	-15.1	1.0	0.0

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17-1	-1303.3	-42839.3	0.0	-6972.9	1324.8	-0.1
17-2	-2837.5	-49323.1	0.0	-7121.5	1251.3	-12.3

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17-1	si	St Tz	-110.4	0.0	-8.2	1.1	0.0
17-2	si	Sa Sc Ty	-121.3	0.0	-9.1	1.0	0.0

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17-1	-1303.3	-32515.8	0.0	-10097.6	-249.7	124.8
17-2	-2837.5	-38579.4	0.0	-10388.0	-230.8	245.6

TENSIONI







Caso	MZ	MY	MT	N	TZ	TY	
17- 1	3163.3	-27547.7	0.0	-10176.2	-36.1	-148.5	
17- 2	1004.1	-35142.9	0.0	-10557.8	-53.2	23.3	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St Ty	-120.9	0.0	-8.6	0.0	0.1
17- 2	si	Sa ScTz	-131.1	0.0	-9.4	0.0	0.0
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ARMATURE Long. tot.	N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
				Trasv. Z	N.	12	A 6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-13912.0	-23394.0	0.0	-9745.0	-36.1	-148.5	
17- 2	3689.1	-29028.7	0.0	-10126.6	-53.2	23.3	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St Ty	-121.9	0.0	-8.7	0.0	0.1
17- 2	si	Sa ScTz	-122.7	0.0	-8.8	0.0	0.0
-----							
ARMATURE Long. tot.	N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
				Trasv. Z	N.	12	A 6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-13480.3	40589.7	0.0	-32781.6	336.3	63.4	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStScTzTy	-335.7	0.0	-23.3	0.3	0.0
-----							
ARMATURE Long. tot.	N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
				Trasv. Z	N.	12	A 6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	8724.8	1780.4	0.0	-31469.1	-114.5	63.4	
17- 2	-6429.9	10682.1	0.0	-32309.3	125.7	-31.0	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St Ty	-274.8	0.0	-18.4	0.1	0.0
17- 2	si	SaStScTz	-290.3	0.0	-19.6	0.1	0.0
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ARMATURE Long. tot.	N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
				Trasv. Z	N.	12	A 6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 2	9028.9	-36402.2	0.0	-21124.9	-354.8	-36.0	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	SaStScTzTy	-228.7	0.0	-16.0	0.3	0.0
-----							
ARMATURE Long. tot.	N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
				Trasv. Z	N.	12	A 6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	2099.0	1433.7	0.0	-19341.1	-162.3	-11.9	
17- 2	-3587.9	8903.3	0.0	-19812.4	95.9	-36.0	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St Ty	-166.4	0.0	-11.1	0.1	0.0
17- 2	si	Sa Sc Ty	-180.5	0.0	-12.2	0.1	0.0
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ARMATURE Long. tot.	N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
				Trasv. Z	N.	12	A 6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 2	17370.9	-69509.1	0.0	-8491.2	-567.3	-108.5	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	SaStScTzTy	-174.3	0.0	-13.3	0.5	0.1
-----							
ARMATURE Long. tot.	N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
				Trasv. Z	N.	12	A 6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-13887.7	30703.1	0.0	-7044.4	-348.3	-74.9	
17- 2	-20610.1	50158.4	0.0	-7178.7	-116.5	-108.5	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St Ty	-107.8	0.0	-7.9	0.3	0.1
17- 2	si	Sa Sc Ty	-140.7	0.0	-10.6	0.1	0.1

PILASTRATA : N. 122 P016

CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
199	0.	115.	55	210
241	115.	230.	210	355
461	230.	580.	355	519
594	580.	930.	519	619
714	930.	1280.	619	683

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1		-461.0	121276.7	0.0	-7250.8	1316.6	46.7

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa	Sc	Tz	Ty			
				-225.8	0.0	-18.7	1.0	0.0

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1		4913.9	-30137.9	0.0	-6819.5	1316.6	46.7
17- 2		865.4	-38313.7	0.0	-7128.8	1212.9	-7.5

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa	Sc	Tz	Ty			
				-97.2	0.0	-7.1	1.0	0.0
17- 2	si	Sa	Sc	Tz	Ty			
				-105.8	0.0	-7.8	1.0	0.0

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1		4913.9	-24762.2	0.0	-9672.5	-376.9	-335.4
17- 2		865.4	-32391.6	0.0	-10103.6	-387.4	-89.4

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa	Sc	Tz	Ty			
				-114.9	0.0	-8.2	0.3	0.3
17- 2	si	Sa	Sc	Tz	Ty			
				-123.9	0.0	-8.9	0.3	0.1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1		-33651.5	18577.5	0.0	-9241.2	-376.9	-335.4
17- 2		-9414.8	12158.1	0.0	-9672.3	-387.4	-89.4

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa	Sc	Tz	Ty			
				-129.6	0.0	-9.3	0.3	0.3
17- 2	si	Sa	Sc	Tz	Ty			
				-104.1	0.0	-7.3	0.3	0.1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1		-60499.0	-7765.2	0.0	-29220.0	31.6	494.7
17- 2		-36461.6	-72003.1	0.0	-30183.8	-627.1	366.1

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa	Sc	Tz	Ty			
				-309.0	0.0	-21.2	0.0	0.4
17- 2	si	Sa	Sc	Tz	Ty			
				-371.2	0.0	-26.5	0.5	0.3

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
16- 1		101168.7	66468.8	0.0	-28437.4	-310.8	424.4
17- 1		112630.4	60052.7	0.0	-27907.5	-419.1	494.7

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
16- 1	si	Sa	Sc	Tz	Ty			

16- 1 si Sa Sc	-407.6	0.0	-29.3	0.2	0.3
17- 1 si St TzTy	-405.8	0.0	-29.1	0.3	0.4

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
17- 1	-137125.9	-42405.6	0.0	-18366.4	-78.4	778.4
17- 2	-132478.0	-103783.2	0.0	-18900.5	-731.9	741.9

TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	St TzTy	-327.8	0.0	-23.8	0.1	0.6
17- 2 si	SaStScTz	-412.6	0.0	-30.8	0.6	0.6

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
17- 1	135299.9	63900.5	0.0	-17053.9	-529.1	778.4
17- 2	127194.0	73502.9	0.0	-17588.0	-281.2	741.9

TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	St TzTy	-345.6	0.0	-25.5	0.4	0.6
17- 2 si	Sa Sc	-353.9	0.0	-26.2	0.2	0.6

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
17- 1	-125203.1	-73840.0	0.0	-7346.6	-227.3	753.6
17- 2	-117019.8	-130694.8	0.0	-7500.9	-894.5	701.5

TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	St TzTy	-323.9	0.0	-25.3	0.2	0.6
17- 2 si	SaStScTz	457.5	0.0	-33.7	0.7	0.5

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
17- 1	138549.8	84601.5	0.0	-6034.1	-678.1	753.6
17- 2	128518.8	103503.7	0.0	-6188.4	-443.8	701.5

TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	St TzTy	418.9	0.0	-29.4	0.5	0.6
17- 2 si	Sa Sc	445.1	0.0	-31.1	0.4	0.5

PILASTRATA : N. 123 P017 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
200	0.	115.	58	213
242	115.	230.	213	358
462	230.	580.	358	520
595	580.	930.	520	620
715	930.	1280.	620	684

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		So11.
N	Descrizione	
15	Rara	1
16	Rara Ventox	2
17	Rara Ventoy	2
18	Frequente	1
19	Frequente Ventox	2
20	Frequente Ventoy	2
21	Quasi Perm	1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
17- 1	-13648.7	4337.4	0.0	-3625.6	38.4	259.4
17- 2	-12121.3	5992.6	0.0	-4083.2	67.5	182.2

TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	St TzTy	-47.8	0.0	-3.4	0.0	0.2
17- 2 si	Sa ScTz	-52.2	0.0	-3.7	0.1	0.1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|



SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	Trasv. Z	N. 12 A	6.0
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1	16180.5	-78.9	0.0	-3194.4	38.4	259.4	
17- 2	8826.2	-1768.3	0.0	-3651.9	67.5	182.2	
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStSc	TzTy	-41.4	0.0	-2.9	0.0	0.2
17- 2 si	Tz		-40.7	0.0	-2.8	0.1	0.1
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	PROGR.	115.
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	Trasv. Z	N. 12 A	6.0
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1	15129.8	3417.2	0.0	-5520.9	295.0	-829.4	
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTzTy		-64.0	0.0	-4.5	0.2	0.6
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	PROGR.	230.
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	Trasv. Z	N. 12 A	6.0
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1	-80248.5	-30511.3	0.0	-5089.6	295.0	-829.4	
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTzTy		-176.1	0.0	-13.5	0.2	0.6
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	PROGR.	230.
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	Trasv. Z	N. 12 A	6.0
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1	-152428.2	-8233.7	0.0	-17479.0	-92.8	606.4	
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTzTy		-292.8	0.0	-20.9	0.1	0.5
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	PROGR.	580.
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	Trasv. Z	N. 12 A	6.0
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1	-9202.9	24237.4	0.0	-16166.5	-92.8	212.0	
17- 2	-68758.5	13607.4	0.0	-17050.3	-27.5	-27.9	
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTzTy		-172.8	0.0	-12.1	0.1	0.2
17- 2 si	Sa Sc		-220.7	0.0	-15.5	0.0	0.0
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	PROGR.	580.
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	Trasv. Z	N. 12 A	6.0
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1	132378.4	-33940.2	0.0	-11205.7	-202.7	-454.3	
17- 2	181243.5	-30784.7	0.0	-11669.5	-181.7	-1038.7	
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTzTy		-267.0	0.0	-19.8	0.2	0.4
17- 2 si	Sa Sc		-331.9	0.0	-24.8	0.1	0.8
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	PROGR.	930.
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	Trasv. Z	N. 12 A	6.0
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1	-95641.7	36994.0	0.0	-9893.2	-202.7	-848.7	
17- 2	-113296.1	32797.1	0.0	-10357.0	-181.7	-644.3	
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTzTy		-220.0	0.0	-16.3	0.2	0.7
17- 2 si	Sa Sc		-237.3	0.0	-17.6	0.1	0.5
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	PROGR.	930.
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	Trasv. Z	N. 12 A	6.0
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
17- 1	147193.9	-31604.9	0.0	-4406.7	-178.8	-611.4	
17- 2	206977.9	-27307.0	0.0	-4560.5	-151.6	-1291.9	
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTzTy		385.5	0.0	-22.4	0.1	0.5
17- 2 si	Sa Sc		592.8	0.0	-29.0	0.1	1.0

-----										PROGR.	1280.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-135804.3	30963.3	0.0	-3094.2	-178.8	-1005.8					
17- 2	-176159.5	25759.4	0.0	-3248.0	-151.6	-897.5					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 1 si	Sa Sc Ty	414.6	0.0	-21.2	0.1	0.8					
17- 2 si	Sa Sc	547.0	0.0	-25.2	0.1	0.7					

PILASTRATA : N. 124 P018 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.								
201	0.	115.	73	228								
243	115.	230.	228	374								
463	230.	580.	374	532								
596	580.	930.	532	632								
716	930.	1280.	632	693								
Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4			
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.			

CASI DI CARICO			
N	Descrizione	Sol1.	
15	Rara	1	
16	Rara VentoX	2	
17	Rara VentoY	2	
18	Frequente	1	
19	Frequente VentoX	2	
20	Frequente VentoY	2	
21	Quasi Perm	1	

-----										PROGR.	0.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
16- 2	-14038.6	-131558.5	0.0	-9639.2	-1389.6	191.4					
17- 1	-15499.7	-130268.4	0.0	-9644.2	-1380.2	240.1					
21- 1	-11293.6	-135387.6	0.0	-8349.2	-1461.2	143.0					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
16- 2 si	Sa	-274.4	0.0	-22.0	1.1	0.1					
17- 1 si	Sa Sc Ty	-274.3	0.0	-22.0	1.1	0.2					
21- 1 si	StScTz	-269.5	0.0	-22.1	1.2	0.1					

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	12112.0	28450.4	0.0	-9213.0	-1380.2	240.1					
21- 1	5155.4	32651.9	0.0	-7918.0	-1461.2	143.0					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 1 si	Sa Sc Ty	-121.8	0.0	-8.8	1.1	0.2					
21- 1 si	St Tz	-109.6	0.0	-8.0	1.2	0.1					

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	12112.0	26193.4	0.0	-14418.6	809.5	-512.5					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 1 si	SaStScTzTy	-163.0	0.0	-11.5	0.6	0.4					

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-46827.7	-66900.6	0.0	-13987.4	809.5	-512.5					
TENSIONI											
Caso Ver	massimi	Sa	St	Sc	Tz	Ty					
17- 1 si	SaStScTzTy	-238.6	0.0	-17.6	0.6	0.4					

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-66108.5	155614.6	0.0	-41601.0	983.2	370.2					

17- 2	3076.9	157411.6	0.0	-41286.2	990.6	23.7
TENSIONI						
Caso	Ver	massimi	Sa	St	Sc	Tz
17- 1	si	Sa Sc Ty	-592.0	0.0	-43.1	0.8
17- 2	si	St Tz	-535.5	0.0	-38.8	0.8

PROGR. 580.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	63447.2	-188519.4	0.0	-40288.5	983.2	370.2
17- 2	11383.5	-189315.4	0.0	-39973.7	990.6	23.7

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa Sc Ty	-617.3	0.0	-45.4	0.8	0.3
17- 2	si	St Tz	-569.3	0.0	-41.8	0.8	0.0

PROGR. 580.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-66495.0	189828.2	0.0	-26004.5	1077.1	317.1

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSCTzTy	-513.2	0.0	-38.7	0.9	0.2

PROGR. 930.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	44502.8	-187153.5	0.0	-24692.0	1077.1	317.1

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSCTzTy	-478.1	0.0	-36.1	0.9	0.2

PROGR. 930.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-116402.3	198055.2	0.0	-10492.8	1176.3	690.7

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSCTzTy	593.5	0.0	-43.8	0.9	0.5

PROGR. 1280.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	125350.2	-213645.2	0.0	-9180.3	1176.3	690.7

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSCTzTy	731.0	0.0	-47.6	0.9	0.5

PILASTRATA : N. 125 P019

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
217	0.	230.	74	375
464	230.	580.	375	533
597	580.	930.	533	633
717	930.	1280.	633	694

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

PROGR. 0.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	27 L	230.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-161194.2	-107043.2	0.0	-77728.8	-951.1	1533.2
17- 2	-133607.0	-116008.4	0.0	-77329.6	-1023.8	1452.4

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa Sc Ty	-923.7	0.0	-65.0	0.8	1.2
17- 2	si	St Tz	-906.3	0.0	-63.8	0.8	1.1
-----							PROGR. 230.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	191451.5	111719.9	0.0	-76866.3	-951.1	1533.2	
17- 2	200439.3	119464.2	0.0	-76467.1	-1023.8	1452.4	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-948.8	0.0	-67.0	0.8	1.2
17- 2	si	SaStScTz	-962.6	0.0	-68.1	0.8	1.1
-----							PROGR. 230.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-140203.8	-48207.0	0.0	-57285.3	-302.6	791.4	
17- 2	-80869.8	-49056.7	0.0	-56987.3	-306.8	491.2	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-663.7	0.0	-46.3	0.2	0.6
17- 2	si	Tz	-609.4	0.0	-42.2	0.2	0.4
-----							PROGR. 580.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	136782.7	57706.5	0.0	-55972.8	-302.6	791.4	
17- 2	91033.7	58308.0	0.0	-55674.8	-306.8	491.2	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-660.8	0.0	-46.3	0.2	0.6
17- 2	si	Tz	-618.3	0.0	-43.1	0.2	0.4
-----							PROGR. 580.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-177377.0	-76631.4	0.0	-36103.5	-426.7	946.5	
17- 2	-141509.9	-79212.7	0.0	-35902.3	-441.6	746.7	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-551.8	0.0	-39.7	0.3	0.7
17- 2	si	Tz	-521.3	0.0	-37.4	0.4	0.6
-----							PROGR. 930.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	153880.9	72722.8	0.0	-34791.0	-426.7	946.5	
17- 2	119827.1	75352.7	0.0	-34589.8	-441.6	746.7	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-515.3	0.0	-37.0	0.3	0.7
17- 2	si	Tz	-486.4	0.0	-34.9	0.4	0.6
-----							PROGR. 930.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-192566.7	-81003.3	0.0	-15085.8	-493.5	1111.6	
17- 2	-142130.4	-84035.3	0.0	-15010.7	-514.7	793.8	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-437.4	0.0	-33.1	0.4	0.9
17- 2	si	Tz	-374.5	0.0	-28.2	0.4	0.6
-----							PROGR. 1280.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	196489.7	91731.3	0.0	-13773.3	-493.5	1111.6	
17- 2	135713.3	96123.1	0.0	-13698.2	-514.7	793.8	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-461.2	0.0	-35.3	0.4	0.9
17- 2	si	Tz	-382.9	0.0	-29.1	0.4	0.6



ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | 158708.0| -84669.2| 0.0| -12933.9| -439.6| -558.9|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si |SaStSctZ|Ty| -392.7| 0.0| -29.9| 0.3| 0.4|  
 -----  
 PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | -36902.4| 69188.3| 0.0| -11621.4| -439.6| -558.9|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si |SaStSctZ|Ty| -214.2| 0.0| -16.0| 0.3| 0.4|

PILASTRATA : N. 127 P021 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
219	0.	230.	76	377
466	230.	580.	377	535
599	580.	930.	535	635
719	930.	1280.	635	696

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	so11.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY	
17- 1		-21967.5	-19466.9	0.0	-44047.7	-336.5	127.4
17- 2		62412.0	-7463.2	0.0	-39619.5	-240.3	-453.7
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSctZ	Ty	-413.3	0.0	-28.1	0.3
17- 2	si	SaStSctZ	Ty	-397.9	0.0	-27.2	0.2
 -----  
 PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY	
17- 1		7331.1	57938.8	0.0	-43185.2	-336.5	127.4
17- 2		-41938.6	47810.7	0.0	-38757.0	-240.3	-453.7
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSctZ	Ty	-438.3	0.0	-30.4	0.3
17- 2	si	SaStSctZ	Ty	-419.8	0.0	-29.3	0.2
 -----  
 PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY	
17- 1		-50090.3	-6279.3	0.0	-27599.8	101.1	5.3
17- 2		13390.4	1318.7	0.0	-24847.3	158.3	-348.5
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa Sc	Ty	-284.3	0.0	-19.5	0.1
17- 2	si	St Tz	Ty	-222.7	0.0	-15.0	0.1
 -----  
 PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | -108598.7| -54076.8| 0.0| -23534.8| 158.3| -348.5|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si |SaStSctZ|Ty| -358.3| 0.0| -25.8| 0.1| 0.3|  
 -----  
 PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | 171058.4| 125323.0| 0.0| -20804.9| 780.4| -809.6|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si| SaStSctzTy| -501.5| 0.0| -37.8| 0.6| 0.6|  
 -----  
 PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | -112295.1| -147823.8| 0.0| -19492.4| 780.4| -809.6|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si| SaStSctzTy| -462.8| 0.0| -35.1| 0.6| 0.6|  
 -----  
 PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | 37562.7| 119739.9| 0.0| -11391.4| 538.2| -177.4|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si| SaStSctzTy| -293.3| 0.0| -22.8| 0.4| 0.1|  
 -----  
 PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | -24532.5| -68622.8| 0.0| -10078.9| 538.2| -177.4|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si| SaStSctzTy| -190.4| 0.0| -14.3| 0.4| 0.1|  
 -----  
 PROGR. 1280.

PILASTRATA : N. 128 P022 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
220	0.	230.	77	378
467	230.	580.	378	536
600	580.	930.	536	636
720	930.	1280.	636	697

  

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO	N	Descrizione	So11.
	15	Rara	1
	16	Rara VentoX	2
	17	Rara VentoY	2
	18	Frequente	1
	19	Frequente VentoX	2
	20	Frequente VentoY	2
	21	Quasi Perm	1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | -81017.7| 144172.4| 0.0| -71462.2| 1555.5| 735.8|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si| SaStSctzTy| -843.3| 0.0| -59.7| 1.2| 0.6|  
 -----  
 PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 2| | 88205.9| -213596.1| 0.0| -70599.7| 1555.5| 735.8|  
 TENSIONI  
 | Caso|Ver| massimi | Sa | St | Sc | Tz | Ty |  
 |17- 2|si| SaStSctzTy| -924.0| 0.0| -66.5| 1.2| 0.6|  
 -----  
 PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
 | Caso | MZ | MY | MT | N | TZ | TY |  
 |17- 1| | -101203.9| 187045.6| 0.0| -53126.6| 1073.6| 477.9|

17- 2	9698.4	190437.8	0.0	-52693.9	1093.9	-72.7						
TENSIONI												
Caso	Ver	massimi		Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	Sc	Ty	0.0	-55.0	0.9	0.4				
17- 2	si	St	Tz		0.0	-48.9	0.9	0.1				
-----												
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
					Trasv. Z	N.	12	A	6.0			
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00
SOLLECITAZIONI												
Caso	MZ	MY	MT	N	TZ	TY						
17- 1	66054.2	-188717.9	0.0	-51814.1	1073.6	477.9						
17- 2	-15746.0	-192419.2	0.0	-51381.4	1093.9	-72.7						
TENSIONI												
Caso	Ver	massimi		Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	Sc	Ty	0.0	-52.0	0.9	0.4				
17- 2	si	St	Tz		0.0	-48.8	0.9	0.1				
-----												
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
					Trasv. Z	N.	12	A	6.0			
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00
SOLLECITAZIONI												
Caso	MZ	MY	MT	N	TZ	TY						
17- 1	-55009.4	189949.2	0.0	-33821.3	1080.6	371.9						
17- 2	-19174.6	193293.6	0.0	-33580.8	1098.5	138.6						
TENSIONI												
Caso	Ver	massimi		Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	Sc	Ty	0.0	-41.4	0.9	0.3				
17- 2	si	St	Tz		0.0	-39.1	0.9	0.1				
-----												
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
					Trasv. Z	N.	12	A	6.0			
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00
SOLLECITAZIONI												
Caso	MZ	MY	MT	N	TZ	TY						
17- 1	75171.2	-188267.3	0.0	-32508.8	1080.6	371.9						
17- 2	29321.7	-191181.1	0.0	-32268.3	1098.5	138.6						
TENSIONI												
Caso	Ver	massimi		Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	Sc	Ty	0.0	-42.0	0.9	0.3				
17- 2	si	St	Tz		0.0	-38.9	0.9	0.1				
-----												
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
					Trasv. Z	N.	12	A	6.0			
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00
SOLLECITAZIONI												
Caso	MZ	MY	MT	N	TZ	TY						
17- 1	-67615.7	198966.7	0.0	-13883.1	1177.2	364.7						
17- 2	-14638.3	203804.5	0.0	-13827.1	1208.8	23.7						
TENSIONI												
Caso	Ver	massimi		Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	Sc	Ty	0.0	-38.1	0.9	0.3				
17- 2	si	St	Tz		0.0	-33.2	1.0	0.0				
-----												
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
					Trasv. Z	N.	12	A	6.0			
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00
SOLLECITAZIONI												
Caso	MZ	MY	MT	N	TZ	TY						
17- 1	60046.8	-213051.4	0.0	-12570.6	1177.2	364.7						
17- 2	-6335.1	-219284.7	0.0	-12514.6	1208.8	23.7						
TENSIONI												
Caso	Ver	massimi		Sa	St	Sc	Tz	Ty				
17- 1	si	Sa	Sc	Ty	0.0	-39.4	0.9	0.3				
17- 2	si	St	Tz		0.0	-34.2	1.0	0.0				

PILASTRATA : N. 129 P023 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
221	0.	230.	78	379
468	230.	580.	379	537
601	580.	930.	537	637
721	930.	1280.	637	698

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	so11
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

----- PROGR. 0.



ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 27 L	230. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-24321.2	9038.6	0.0	-81241.3	-38.7	-243.8
	17- 2	-16801.0	8415.7	0.0	-80778.9	-43.1	-77.8
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStSc Ty	-716.3	0.0	-48.1	0.0	0.2
	17- 2 si	Tz	-705.0	0.0	-47.3	0.0	0.1
						PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 27 L	230. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-80383.9	17942.5	0.0	-80378.8	-38.7	-243.8
	17- 2	-34688.5	18333.5	0.0	-79916.4	-43.1	-77.8
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStSc Ty	-769.4	0.0	-52.3	0.0	0.2
	17- 2 si	Tz	-725.3	0.0	-49.0	0.0	0.1
						PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-58654.1	-38863.9	0.0	-59692.7	-217.6	268.2
	17- 2	54457.0	-39042.1	0.0	-59338.3	-218.6	-295.5
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	Sa Sc	-600.5	0.0	-41.3	0.2	0.2
	17- 2 si	St TzTy	-594.0	0.0	-40.8	0.2	0.2
						PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 2	-48951.4	37470.0	0.0	-58025.8	-218.6	-295.5
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 2 si	SaStSCTzTy	-576.2	0.0	-39.5	0.2	0.2
						PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 2	41638.5	-29359.5	0.0	-37495.3	-165.6	-230.1
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 2 si	SaStSCTzTy	-387.3	0.0	-26.7	0.1	0.2
						PROGR.	930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 2	-38883.5	28589.8	0.0	-36182.8	-165.6	-230.1
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 2 si	SaStSCTzTy	-372.9	0.0	-25.7	0.1	0.2
						PROGR.	930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 2	75474.1	-31449.9	0.0	-15764.9	-189.3	-478.5
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 2 si	SaStSCTzTy	-236.8	0.0	-17.0	0.2	0.4
						PROGR.	1280.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 2	-91986.3	34810.6	0.0	-14452.4	-189.3	-478.5
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 2 si	SaStSCTzTy	-244.7	0.0	-17.7	0.2	0.4

PILASTRATA : N. 130 P024

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
222	0.	230.	79	380
469	230.	580.	380	538
602	580.	930.	538	638
722	930.	1280.	638	699

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara Ventox	2
17	Rara Ventoy	2
18	Frequente	1
19	Frequente Ventox	2
20	Frequente Ventoy	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
									PROGR. 0.
SNELLEZZA	roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-116669.7	16878.5	0.0	-76617.2	108.8	462.9
21- 1	-86103.1	17951.4	0.0	-61491.5	125.3	362.3

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-768.7	0.0	-52.5	0.1	0.4
21- 1	si	Tz	-615.4	0.0	-42.1	0.1	0.3

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
									PROGR. 230.
SNELLEZZA	roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-10193.9	-8144.9	0.0	-75754.7	108.8	462.9
21- 1	-2762.6	-10871.3	0.0	-60629.0	125.3	362.3

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-656.5	0.0	-44.0	0.1	0.4
21- 1	si	Tz	-525.7	0.0	-35.3	0.1	0.3

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
									PROGR. 230.
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-20792.3	-24097.2	0.0	-56327.4	-135.2	84.8
17- 2	75365.7	-23865.0	0.0	-56029.6	-133.9	-400.3

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Tz	-521.1	0.0	-35.4	0.1	0.1
17- 2	si	SaStSc Ty	-566.8	0.0	-38.9	0.1	0.3

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
									PROGR. 580.
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	8881.7	23215.1	0.0	-55014.9	-135.2	84.8
17- 2	-64746.5	23004.6	0.0	-54717.1	-133.9	-400.3

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Tz	-498.4	0.0	-33.8	0.1	0.1
17- 2	si	SaStSc Ty	-545.3	0.0	-37.3	0.1	0.3

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
									PROGR. 580.
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 2	39514.0	-13017.7	0.0	-35389.9	-79.1	-214.8

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	SaStSc Ty	-348.4	0.0	-23.8	0.1	0.2

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
									PROGR. 930.
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 2	-35674.9	14661.4	0.0	-34077.4	-79.1	-214.8

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	SaStSc Ty	-335.9	0.0	-23.0	0.1	0.2

PROGR. 930.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY		
17- 2	90019.4	-13889.6	0.0	-14853.9	-71.4	-563.8			
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 2	si	Sa	St	Tz	Ty				
									PROGR.
									1280.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY		
17- 2	-107296.8	11088.7	0.0	-13541.4	-71.4	-563.8			
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 2	si	Sa	St	Tz	Ty				
									PROGR.
									1280.

PILASTRATA : N. 131 P025 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
223	0.	230.	80	381
470	230.	580.	381	539
603	580.	930.	539	639
723	930.	1280.	639	700

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO	N	Descrizione	So11.
15	Rara	1	
16	Rara VentoX	2	
17	Rara VentoY	2	
18	Frequente	1	
19	Frequente VentoX	2	
20	Frequente VentoY	2	
21	Quasi Perm	1	

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY		
17- 1	-55465.0	-5471.1	0.0	-76517.7	-224.0	-602.9			
17- 2	5274.7	-8091.1	0.0	-76138.0	-245.6	-850.5			
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1	si	Sa	Sc	St	Sc	Tz	Ty		
17- 2	si	St	Tz	Ty					PROGR.
									230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY		
17- 1	-194120.8	46051.1	0.0	-75655.2	-224.0	-602.9			
17- 2	-190342.5	48406.6	0.0	-75275.5	-245.6	-850.5			
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1	si	Sa	Sc	St	Sc	Tz	Ty		
17- 2	si	St	Tz	Ty					PROGR.
									230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY		
17- 1	196679.0	-93024.2	0.0	-56202.0	-523.6	-1145.4			
17- 2	290326.0	-92100.0	0.0	-55947.7	-518.8	-1621.4			
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1	si	Sa	Sc	St	Sc	Tz	Ty		
17- 2	si	Sa	St	Tz	Ty				PROGR.
									580.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY		
17- 1	-204221.7	90242.8	0.0	-54889.5	-523.6	-1145.4			
17- 2	-277180.0	89467.8	0.0	-54635.2	-518.8	-1621.4			
TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1	si	Sa	Sc	St	Sc	Tz	Ty		
									PROGR.
									580.





16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1		Trasv. Y	N.	20	A	10.1				
						Trasv. Z	N.	12	A	6.0				
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														

Caso		MZ		MY		MT		N		TZ		TY	
17- 2		36397.5		25162.5		0.0		-67115.4		-21.0		-1395.0	
21- 1		-24091.0		47525.3		0.0		-56426.8		220.4		-783.3	

TENSIONI														
Caso	Ver		massimi		Sa		St		Sc		Tz		Ty	
17- 2	si		SaStSc		Ty		0.0		-42.6		0.0		1.1	
21- 1	si		Tz		-552.4		0.0		-38.0		0.2		0.6	

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1		Trasv. Y	N.	20	A	10.1				
						Trasv. Z	N.	12	A	6.0				
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														

Caso		MZ		MY		MT		N		TZ		TY	
17- 2		-284449.3		29985.1		0.0		-66252.9		-21.0		-1395.0	
21- 1		-204260.0		-3155.7		0.0		-55564.3		220.4		-783.3	

TENSIONI														
Caso	Ver		massimi		Sa		St		Sc		Tz		Ty	
17- 2	si		SaStSc		Ty		0.0		-59.3		0.0		1.1	
21- 1	si		Tz		-653.2		0.0		-45.3		0.2		0.6	

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1		Trasv. Y	N.	20	A	10.1				
						Trasv. Z	N.	12	A	6.0				
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														

Caso		MZ		MY		MT		N		TZ		TY	
17- 1		224405.9		-117037.7		0.0		-47010.2		-645.4		-1098.7	
17- 2		313778.0		-114658.5		0.0		-47910.0		-624.6		-1536.7	

TENSIONI														
Caso	Ver		massimi		Sa		St		Sc		Tz		Ty	
17- 1	si		Tz		-733.0		0.0		-53.0		0.5		0.8	
17- 2	si		SaStSc		Ty		0.0		-59.4		0.5		1.2	

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1		Trasv. Y	N.	20	A	10.1				
						Trasv. Z	N.	12	A	6.0				
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														

Caso		MZ		MY		MT		N		TZ		TY	
17- 1		-160130.0		108862.7		0.0		-45697.7		-645.4		-1098.7	
17- 2		-224068.9		103943.1		0.0		-46597.5		-624.6		-1536.7	

TENSIONI														
Caso	Ver		massimi		Sa		St		Sc		Tz		Ty	
17- 1	si		Tz		-655.2		0.0		-47.1		0.5		0.8	
17- 2	si		SaStSc		Ty		0.0		-51.4		0.5		1.2	

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1		Trasv. Y	N.	20	A	10.1				
						Trasv. Z	N.	12	A	6.0				
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														

Caso		MZ		MY		MT		N		TZ		TY	
17- 1		69366.1		-63875.5		0.0		-30973.9		-350.7		-314.2	
17- 2		125155.6		-59035.9		0.0		-31352.6		-321.5		-658.2	

TENSIONI														
Caso	Ver		massimi		Sa		St		Sc		Tz		Ty	
17- 1	si		Tz		-397.6		0.0		-28.3		0.3		0.2	
17- 2	si		SaStSc		Ty		0.0		-31.8		0.3		0.5	

-----										PROGR.	930.			
ARMATURE Long. tot.	N.	10	A	20.1		Trasv. Y	N.	20	A	10.1				
						Trasv. Z	N.	12	A	6.0				
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														

Caso		MZ		MY		MT		N		TZ		TY	
17- 1		-40591.1		58867.1		0.0		-29661.4		-350.7		-314.2	
17- 2		-105199.5		53491.4		0.0		-30040.1		-321.5		-658.2	

TENSIONI														
Caso	Ver		massimi		Sa		St		Sc		Tz		Ty	
17- 1	si		Tz		-355.1		0.0		-25.2		0.3		0.2	
17- 2	si		SaStSc		Ty		0.0		-29.2		0.3		0.5	

-----										PROGR.	930.			
ARMATURE Long. tot.	N.	10	A	20.1		Trasv. Y	N.	20	A	10.1				
						Trasv. Z	N.	12	A	6.0				
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														

Caso		MZ		MY		MT		N		TZ		TY	
17- 1		251952.6		-77170.1		0.0		-14280.2		-505.3		-1712.1	
17- 2		292961.0		-72400.9		0.0		-14244.6		-484.2		-2017.1	

TENSIONI



SNELLEZZA	roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	Trasv. Z	N. 12	A 6.0		
SOLLECITAZIONI							cz 1.00	cy 1.00			
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-145554.3	-52776.5	0.0	-33974.3	-320.1	735.2					
TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	SaStScTzTy	-477.6	0.0	-34.0	0.3	0.6				
-----										PROGR.	580.
ARMATURE Long. tot.	N.	10	A 20.1		Trasv. Y	N. 20	A 10.1				
					Trasv. Z	N. 12	A 6.0				
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	Trasv. Z	N. 12	A 6.0		
SOLLECITAZIONI							cz 1.00	cy 1.00			
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	111769.5	59257.9	0.0	-32661.8	-320.1	735.2					
TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	SaStScTzTy	-444.1	0.0	-31.7	0.3	0.6				
-----										PROGR.	580.
ARMATURE Long. tot.	N.	10	A 20.1		Trasv. Y	N. 20	A 10.1				
					Trasv. Z	N. 12	A 6.0				
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	Trasv. Z	N. 12	A 6.0		
SOLLECITAZIONI							cz 1.00	cy 1.00			
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-68532.1	-45524.7	0.0	-19021.6	-308.7	579.5					
17- 2	-20849.7	-50288.5	0.0	-18889.8	-336.5	249.2					
TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	SaStSc Ty	-274.6	0.0	-19.8	0.2	0.4				
17- 2	si	Tz	-236.7	0.0	-16.9	0.3	0.2				
-----										PROGR.	930.
ARMATURE Long. tot.	N.	10	A 20.1		Trasv. Y	N. 20	A 10.1				
					Trasv. Z	N. 12	A 6.0				
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	Trasv. Z	N. 12	A 6.0		
SOLLECITAZIONI							cz 1.00	cy 1.00			
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	134305.4	62522.5	0.0	-17709.1	-308.7	579.5					
17- 2	66354.4	67478.5	0.0	-17577.3	-336.5	249.2					
TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	SaStSc Ty	-346.9	0.0	-25.5	0.2	0.4				
17- 2	si	Tz	-286.5	0.0	-21.0	0.3	0.2				
-----										PROGR.	930.
ARMATURE Long. tot.	N.	10	A 20.1		Trasv. Y	N. 20	A 10.1				
					Trasv. Z	N. 12	A 6.0				
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	Trasv. Z	N. 12	A 6.0		
SOLLECITAZIONI							cz 1.00	cy 1.00			
Caso	MZ	MY	MT	N	TZ	TY					
17- 2	104543.8	-68064.5	0.0	-8784.3	-341.0	-887.1					
TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 2	si	SaStScTzTy	-281.2	0.0	-21.6	0.3	0.7				
-----										PROGR.	1280.
ARMATURE Long. tot.	N.	10	A 20.1		Trasv. Y	N. 20	A 10.1				
					Trasv. Z	N. 12	A 6.0				
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	Trasv. Z	N. 12	A 6.0		
SOLLECITAZIONI							cz 1.00	cy 1.00			
Caso	MZ	MY	MT	N	TZ	TY					
17- 2	-205950.2	51281.2	0.0	-7471.8	-341.0	-887.1					
TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 2	si	SaStScTzTy	487.3	0.0	-32.1	0.3	0.7				
-----										PROGR.	1280.
PILASTRATA :	N. 135	P029			CRITERI :	1					
Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.							
203	0.	115.	94	240							
245	115.	230.	240	396							
474	230.	580.	396	545							
607	580.	930.	545	644							
727	930.	1280.	644	704							
Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4		
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.		
CASI DI CARICO											
N	Descrizione			Soll.							
15	Rara			1							
16	Rara VentoX			2							
17	Rara VentoY			2							
18	Frequente			1							
19	Frequente VentoX			2							
20	Frequente VentoY			2							
21	Quasi Perm			1							
-----										PROGR.	0.
ARMATURE Long. tot.	N.	10	A 20.1		Trasv. Y	N. 20	A 10.1				
					Trasv. Z	N. 12	A 6.0				



SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	om 1.00 cz 1.00 cy 1.00				
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-3650.3	-16572.9	0.0	-5980.3	-229.6	86.9			
17- 2	-3021.5	-17178.8	0.0	-5865.2	-247.2	82.0			
TENSIONI									
Caso Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1 si	Sa Sc Ty	-73.1	0.0	-5.2	0.2	0.1			
17- 2 si	St Tz	-72.3	0.0	-5.2	0.2	0.1			
						PROGR.	115.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	om 1.00 cz 1.00 cy 1.00				
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	6340.0	9836.2	0.0	-5549.0	-229.6	86.9			
17- 2	6412.9	11247.9	0.0	-5434.0	-247.2	82.0			
TENSIONI									
Caso Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1 si	Sa Sc Ty	-63.9	0.0	-4.5	0.2	0.1			
17- 2 si	SaStScTz	-64.7	0.0	-4.6	0.2	0.1			
						PROGR.	115.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	om 1.00 cz 1.00 cy 1.00				
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	181.5	-3876.0	0.0	-9699.5	-428.5	734.2			
TENSIONI									
Caso Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1 si	SaStScTzTy	-86.4	0.0	-5.8	0.3	0.6			
						PROGR.	230.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115.	om 1.00 cz 1.00 cy 1.00				
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	84614.9	45403.3	0.0	-9268.3	-428.5	734.2			
TENSIONI									
Caso Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1 si	SaStScTzTy	-216.8	0.0	-16.2	0.3	0.6			
						PROGR.	230.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	om 1.00 cz 1.00 cy 1.00				
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	74024.2	23622.9	0.0	-29689.1	178.2	-823.5			
17- 2	65355.8	4180.9	0.0	-29344.8	273.4	-786.0			
TENSIONI									
Caso Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1 si	SaStSc Ty	-343.6	0.0	-24.0	0.1	0.6			
17- 2 si	Tz	-310.1	0.0	-21.3	0.2	0.6			
						PROGR.	580.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	om 1.00 cz 1.00 cy 1.00				
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-214217.5	-84389.9	0.0	-28376.6	439.1	-823.5			
TENSIONI									
Caso Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1 si	SaStScTzTy	-533.4	0.0	-39.0	0.3	0.6			
						PROGR.	580.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	om 1.00 cz 1.00 cy 1.00				
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	314884.9	115006.3	0.0	-18593.9	531.3	-1721.6			
17- 2	312227.7	121063.0	0.0	-18384.1	733.8	-1697.7			
TENSIONI									
Caso Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1 si	Sa St Ty	-683.4	0.0	-52.5	0.4	1.3			
17- 2 si	Sa ScTz	-690.4	0.0	-53.1	0.6	1.3			
						PROGR.	930.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	om 1.00 cz 1.00 cy 1.00				
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-287683.8	-116589.8	0.0	-17281.4	792.2	-1721.6			
TENSIONI									
Caso Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1 si	SaStScTzTy	-645.0	0.0	-49.6	0.6	1.3			
						PROGR.	930.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
16- 2	265634.7	120186.8	0.0	-7292.6	701.9	-1645.1				
17- 2	266962.6	116600.6	0.0	-7241.2	757.5	-1648.5				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
16- 2	si	Sa Sc	901.1	0.0	-51.1	0.6	1.3			
17- 2	si	St TzTy	898.5	0.0	-50.7	0.6	1.3			
										PROGR.
										1280.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-310596.2	-133154.1	0.0	-6026.1	850.1	-1644.3				
17- 2	-310019.2	-102859.7	0.0	-5928.7	496.6	-1648.5				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Sa SctZ	1177.4	0.0	-59.4	0.7	1.3			
17- 2	si	St Ty	1096.4	0.0	-54.2	0.4	1.3			

PILASTRATA : N. 136 P030 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
204	0.	115.	98	244
246	115.	230.	244	400
475	230.	580.	400	546
608	580.	930.	546	645
728	930.	1280.	645	705

  

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	sol1.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	4566.4	-143857.3	0.0	-10369.5	-1569.8	-49.7				
17- 2	3299.5	-154674.2	0.0	-10286.9	-1631.1	-24.7				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Sa Sc Ty	-284.4	0.0	-22.9	1.2	0.0			
17- 2	si	SaStScTz	-298.4	0.0	-24.3	1.3	0.0			
										PROGR.
										115.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-1152.0	36674.7	0.0	-9938.3	-1569.8	-49.7				
17- 2	461.6	32902.5	0.0	-9855.7	-1631.1	-24.7				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Sa Sc Ty	-127.8	0.0	-9.2	1.2	0.0			
17- 2	si	St Tz	-122.1	0.0	-8.8	1.3	0.0			
										PROGR.
										115.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-1152.0	21594.3	0.0	-13768.0	124.4	-53.0				
17- 2	461.6	17569.1	0.0	-13643.5	88.1	-149.4				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	SaStScTz	-142.3	0.0	-9.9	0.1	0.0			
17- 2	si	Ty	-135.9	0.0	-9.4	0.1	0.1			
										PROGR.
										230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-7247.4	7288.0	0.0	-13336.8	124.4	-53.0				
17- 2	-16717.6	7432.8	0.0	-13212.3	88.1	-149.4				

TENSIONI										
Caso	Ver	massimi			Sa	St	Sc	Tz	Ty	
17-1	si	Sa	Sc	Tz	-127.3	0.0	-8.7	0.1	0.0	
17-2	si	Sa	Sc	Tz	-134.9	0.0	-9.3	0.1	0.1	

ARMATURE Long. tot.										N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	230.
														Trasv. Z	N.	12	A	6.0		

SNELLEZZA																				
rozz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00							
SOLLECITAZIONI																				
Caso		MZ		MY		MT		N		TZ		TY								
17-1		-17775.7		27513.9		0.0		-43649.0		89.6		210.2								
17-2		-27747.5		14493.5		0.0		-43294.4		210.9		259.7								

TENSIONI										
Caso	Ver	massimi			Sa	St	Sc	Tz	Ty	
17-1	si	Sa	Sc	Tz	-415.7	0.0	-28.4	0.1	0.2	
17-2	si	Sa	Sc	Tz	-406.3	0.0	-27.6	0.2	0.2	

ARMATURE Long. tot.										N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	580.
														Trasv. Z	N.	12	A	6.0		

SNELLEZZA																			
rozz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00						
SOLLECITAZIONI																			
Caso		MZ		MY		MT		N		TZ		TY							
17-1		55779.1		-49500.9		0.0		-42336.5		350.5		210.2							
17-2		63158.7		-13672.6		0.0		-41981.9		-50.0		259.7							

TENSIONI										
Caso	Ver	massimi			Sa	St	Sc	Tz	Ty	
17-1	si	Sa	Sc	Tz	-464.3	0.0	-32.4	0.3	0.2	
17-2	si	Sa	Sc	Tz	-425.7	0.0	-29.2	0.0	0.2	

ARMATURE Long. tot.										N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	580.
														Trasv. Z	N.	12	A	6.0		

SNELLEZZA																			
rozz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00						
SOLLECITAZIONI																			
Caso		MZ		MY		MT		N		TZ		TY							
17-2		-78775.6		43218.1		0.0		-27132.9		313.7		398.2							

TENSIONI										
Caso	Ver	massimi			Sa	St	Sc	Tz	Ty	
17-2	si	Sa	Sc	Tz	-349.3	0.0	-24.8	0.2	0.3	

ARMATURE Long. tot.										N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	930.
														Trasv. Z	N.	12	A	6.0		

SNELLEZZA																			
rozz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00						
SOLLECITAZIONI																			
Caso		MZ		MY		MT		N		TZ		TY							
17-1		52606.1		-51665.4		0.0		-26049.5		399.2		359.0							
17-2		60588.1		-20904.5		0.0		-25820.4		52.8		398.2							

TENSIONI										
Caso	Ver	massimi			Sa	St	Sc	Tz	Ty	
17-1	si	Sa	Sc	Tz	-326.9	0.0	-23.2	0.3	0.3	
17-2	si	Sa	Sc	Tz	-295.9	0.0	-20.6	0.0	0.3	

ARMATURE Long. tot.										N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	930.
														Trasv. Z	N.	12	A	6.0		

SNELLEZZA																			
rozz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00						
SOLLECITAZIONI																			
Caso		MZ		MY		MT		N		TZ		TY							
16-2		-83433.5		62460.7		0.0		-11016.1		392.0		511.1							
17-1		-83539.8		62996.3		0.0		-11064.7		305.8		508.6							
17-2		-82668.9		59293.3		0.0		-10956.8		461.3		510.4							

TENSIONI										
Caso	Ver	massimi			Sa	St	Sc	Tz	Ty	
16-2	si	Sa	Sc	Tz	-250.7	0.0	-18.8	0.3	0.4	
17-1	si	Sa	Sc	Tz	-251.9	0.0	-18.9	0.2	0.4	
17-2	si	Sa	Sc	Tz	-244.6	0.0	-18.3	0.4	0.4	

ARMATURE Long. tot.										N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	1280.
														Trasv. Z	N.	12	A	6.0		

SNELLEZZA																			
rozz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00						
SOLLECITAZIONI																			
Caso		MZ		MY		MT		N		TZ		TY							
16-2		95467.2		-74735.4		0.0		-9703.6		392.0		511.1							
17-1		94457.6		-89705.6		0.0		-9752.2		566.7		508.6							

TENSIONI										
Caso	Ver	massimi			Sa	St	Sc	Tz	Ty	
16-2	si	Sa	Sc	Tz	-282.2	0.0	-21.6	0.3	0.4	
17-1	si	Sa	Sc	Tz	-308.4	0.0	-23.8	0.4	0.4	

PILASTRATA :										N.	137	P031	CRITERI :										1
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Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
205	0.	115.	102	248
247	115.	230.	248	404
476	230.	580.	404	547
609	580.	930.	547	646
729	930.	1280.	646	706

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 2	-6859.8	-205922.9	0.0	-10627.1	-2053.9	78.6					

TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 2	si	SaStScTzTy	419.6	0.0	-32.0	1.6	0.1				

-----										PROGR.	115.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	795.5	34005.4	0.0	-10205.9	-1967.9	57.8					
17- 2	2176.0	30277.5	0.0	-10195.9	-2053.9	78.6					

TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	Sa Sc Ty	-126.6	0.0	-9.1	1.6	0.0				
17- 2	si	St TzTy	-123.4	0.0	-8.8	1.6	0.1				

-----										PROGR.	115.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	795.5	10723.3	0.0	-14541.6	-149.4	124.6					
17- 2	2176.0	6166.0	0.0	-14440.0	-175.4	37.2					

TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	Sa Sc Ty	-135.8	0.0	-9.3	0.1	0.1				
17- 2	si	St TzTy	-130.8	0.0	-8.9	0.1	0.0				

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	15125.0	27904.1	0.0	-14110.3	-149.4	124.6					
17- 2	6456.7	26335.1	0.0	-14008.8	-175.4	37.2					

TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	Sa Sc Ty	-165.1	0.0	-11.7	0.1	0.1				
17- 2	si	St TzTy	-154.7	0.0	-10.9	0.1	0.0				

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	21009.9	48354.0	0.0	-46132.1	163.4	-277.5					
17- 2	11525.4	24189.2	0.0	-45747.4	229.3	-231.1					

TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	Sa Sc Ty	-464.0	0.0	-32.0	0.1	0.2				
17- 2	si	St TzTy	-423.9	0.0	-28.8	0.2	0.2				

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	-76109.6	-54491.2	0.0	-44819.6	424.3	-277.5					

TENSIONI											
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty				
17- 1	si	SaStScTzTy	-509.1	0.0	-35.6	0.3	0.2				

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00

SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
17- 1	124619.3	24098.3	0.0	-28927.2	57.3	-674.8					
17- 2	119104.9	23153.0	0.0	-28670.7	217.5	-636.2					

TENSIONI									
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Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17-1	si	SaStSc Ty	-382.7	0.0	-27.0	0.0	0.5
17-2	si	Tz	-374.5	0.0	-26.4	0.2	0.5

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

Caso	MZ	MY	MT	N	TZ	TY
17-1	-111573.9	-41616.2	0.0	-27614.7	318.2	-674.8

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17-1	si	SaStScTy	-380.7	0.0	-27.1	0.3	0.5

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

Caso	MZ	MY	MT	N	TZ	TY
16-1	91187.9	35152.6	0.0	-11635.9	197.8	-612.3
17-1	90383.1	40725.7	0.0	-11706.5	145.0	-610.8
17-2	91416.0	32655.4	0.0	-11579.4	270.4	-610.8

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
16-1	si	St Ty	-222.9	0.0	-16.3	0.2	0.5
17-1	si	Sa Sc	-230.2	0.0	-16.9	0.1	0.5
17-2	si	Tz	-219.4	0.0	-16.0	0.2	0.5

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

Caso	MZ	MY	MT	N	TZ	TY
16-1	-123100.9	-34074.2	0.0	-10323.4	197.8	-612.3
17-1	-123380.0	-55668.9	0.0	-10394.0	405.9	-610.8

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
16-1	si	St Ty	-251.9	0.0	-18.7	0.2	0.5
17-1	si	SaStScTy	-288.1	0.0	-21.7	0.3	0.5

PILASTRATA : N. 138 P032 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
730	0.	350.	649	707

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	350.	350.	30.	50.	0.	0.	0.	0.

CASI DI CARICO	N	Descrizione	sol.
	15	Rara	1
	16	Rara VentoX	2
	17	Rara VentoY	2
	18	Frequente	1
	19	Frequente VentoX	2
	20	Frequente VentoY	2
	21	Quasi Perm	1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

Caso	MZ	MY	MT	N	TZ	TY
16-2	179293.0	36440.5	0.0	-11752.3	244.5	-234.1
17-1	181452.0	44633.1	0.0	-11833.8	227.2	-245.2

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
16-2	si	St Ty	-338.5	0.0	-25.4	0.2	0.2
17-1	si	Sa Sc Ty	-355.5	0.0	-26.8	0.2	0.2

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

Caso	MZ	MY	MT	N	TZ	TY
17-1	95635.1	-68150.9	0.0	-10521.3	417.3	-245.2

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17-1	si	SaStScTy	-273.0	0.0	-20.7	0.3	0.2

PILASTRATA : N. 139 P033 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
226	0.	230.	109	411
477	230.	580.	411	551
610	580.	930.	551	650
731	930.	1280.	650	708

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soil.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	0.
					Trasv. Z	N.	12	A	6.0		

SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 2	16975.9	-58264.6	0.0	-71041.4	-588.4	-646.0

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 2	si	SaStSCTzTy	-681.8	0.0	-46.7	0.5	0.5

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	230.
					Trasv. Z	N.	12	A	6.0		

SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 2	-131614.7	77059.2	0.0	-70178.9	-588.4	-646.0

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 2	si	SaStSCTzTy	-798.6	0.0	-55.8	0.5	0.5

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	230.
					Trasv. Z	N.	12	A	6.0		

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	153115.7	9894.7	0.0	-50145.8	42.0	-845.9
	17- 2	143578.0	-45503.1	0.0	-50384.1	-260.6	-805.1

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1	si	St Ty	-570.0	0.0	-39.4	0.0	0.7
	17- 2	si	Sa SCTz	-605.4	0.0	-42.4	0.2	0.6

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	580.
					Trasv. Z	N.	12	A	6.0		

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-142936.3	-4794.3	0.0	-48833.3	42.0	-845.9
	17- 2	-138213.4	45723.2	0.0	-49071.6	-260.6	-805.1

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1	si	St Ty	-543.9	0.0	-37.5	0.0	0.7
	17- 2	si	Sa SCTz	-589.9	0.0	-41.3	0.2	0.6

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	580.
					Trasv. Z	N.	12	A	6.0		

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	160430.8	-620.8	0.0	-29590.1	36.5	-1007.7
	17- 2	159498.6	-41147.1	0.0	-29613.4	-203.2	-990.4

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1	si	St Ty	-392.5	0.0	-27.5	0.0	0.8
	17- 2	si	Sa SCTz	-439.6	0.0	-31.4	0.2	0.8

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	930.
					Trasv. Z	N.	12	A	6.0		

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-192277.8	-13397.5	0.0	-28277.6	36.5	-1007.7
	17- 2	-187149.9	29972.7	0.0	-28300.9	-203.2	-990.4

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1	si	St Ty	-424.8	0.0	-30.1	0.0	0.8
	17- 2	si	Sa SCTz	-440.0	0.0	-31.4	0.2	0.8

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	930.
					Trasv. Z	N.	12	A	6.0		

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-192277.8	-13397.5	0.0	-28277.6	36.5	-1007.7
	17- 2	-187149.9	29972.7	0.0	-28300.9	-203.2	-990.4

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1	si	St Ty	-424.8	0.0	-30.1	0.0	0.8
	17- 2	si	Sa SCTz	-440.0	0.0	-31.4	0.2	0.8

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	930.
					Trasv. Z	N.	12	A	6.0		

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-192277.8	-13397.5	0.0	-28277.6	36.5	-1007.7
	17- 2	-187149.9	29972.7	0.0	-28300.9	-203.2	-990.4

TENSIONI	Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1	si	St Ty	-424.8	0.0	-30.1	0.0	0.8
	17- 2	si	Sa SCTz	-440.0	0.0	-31.4	0.2	0.8

16- 2	188890.1	30712.7	0.0	-9173.0	262.1	-1094.4
17- 1	188841.0	40868.5	0.0	-9220.1	248.5	-1099.6
TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
16- 2 si	Tz	-343.1	0.0	-26.2	0.2	0.8
17- 1 si	SaStSc Ty	-361.3	0.0	-27.7	0.2	0.8
						PROGR. 1280.

ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1
		Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00		

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
17- 1	-196023.3	-79359.6	0.0	-7907.6	438.5	-1099.6

TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTzTy	503.1	0.0	-35.2	0.3	0.8

PILASTRATA : N. 140 P034 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
732	0.	350.	652	709

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	350.	350.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1
		Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00		

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
16- 2	-3871.4	78848.0	0.0	-11783.1	502.5	156.4
17- 1	-3681.6	88693.9	0.0	-11851.8	487.8	148.9
17- 2	-4063.4	65529.5	0.0	-11700.0	497.1	164.4

TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
16- 2 si	St Tz	-196.3	0.0	-14.7	0.4	0.1
17- 1 si	Sa Sc	-209.7	0.0	-15.8	0.4	0.1
17- 2 si	Ty	-179.2	0.0	-13.3	0.4	0.1
						PROGR. 350.

ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1
		Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00		

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
17- 1	48429.9	-115298.0	0.0	-10539.3	677.8	148.9
17- 2	53464.0	-75216.1	0.0	-10387.5	307.1	164.4

TENSIONI						
Caso Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1 si	SaStScTz	-296.2	0.0	-23.1	0.5	0.1
17- 2 si	Ty	-233.4	0.0	-17.7	0.2	0.1

PILASTRATA : N. 141 P035 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
206	0.	115.	117	262
248	115.	230.	262	419
478	230.	580.	419	556
611	580.	930.	556	655
733	930.	1280.	655	710

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1
		Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00		

SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	16193.8	-123539.7	0.0	-10357.3	-1441.0	-238.0				
17- 2	14708.0	-142198.9	0.0	-10317.0	-1552.4	-195.3				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Ty	-268.1	0.0	-21.2	1.1	0.2			
17- 2	si	SaStScTz	-295.4	0.0	-23.7	1.2	0.2			
						PROGR.	115.			
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy	1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-11177.9	42171.4	0.0	-9926.1	-1441.0	-238.0				
17- 2	-7755.2	36329.9	0.0	-9885.7	-1552.4	-195.3				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Sa Sc Ty	-143.1	0.0	-10.5	1.1	0.2			
17- 2	si	St Tz	-132.9	0.0	-9.6	1.2	0.2			
						PROGR.	115.			
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy	1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-11177.9	29218.6	0.0	-14510.9	207.1	382.4				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	SaStScTzTy	-166.5	0.0	-11.8	0.2	0.3			
						PROGR.	230.			
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy	1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	32794.4	5406.4	0.0	-14079.7	207.1	382.4				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	SaStScTzTy	-154.1	0.0	-10.6	0.2	0.3			
						PROGR.	230.			
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy	1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
16- 2	19729.9	53734.1	0.0	-45789.2	333.0	28.0				
17- 1	29998.6	66180.9	0.0	-46025.0	310.9	-23.2				
17- 2	7592.6	36136.8	0.0	-45501.0	328.6	88.6				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
16- 2	si	St Tz	-466.3	0.0	-32.3	0.3	0.0			
17- 1	si	Sa Sc	-492.0	0.0	-34.3	0.2	0.0			
17- 2	si	Ty	-432.4	0.0	-29.6	0.3	0.1			
						PROGR.	580.			
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy	1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	21885.0	-84380.3	0.0	-44712.5	549.4	-23.2				
17- 2	38601.0	-37142.7	0.0	-44188.5	90.1	88.6				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	SaStScTz	-495.2	0.0	-34.8	0.4	0.0			
17- 2	si	Ty	-450.1	0.0	-31.0	0.1	0.1			
						PROGR.	580.			
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy	1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	-93655.9	61961.8	0.0	-28410.8	284.4	500.4				
17- 2	-98579.3	52932.3	0.0	-28109.1	380.6	541.7				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			
17- 1	si	Sa Sc	-395.4	0.0	-28.3	0.2	0.4			
17- 2	si	St TzTy	-386.6	0.0	-27.6	0.3	0.4			
						PROGR.	930.			
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
						Trasv. Z	N.	12	A	6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy	1.00	
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
17- 1	81489.9	-79316.4	0.0	-27098.3	522.9	500.4				
17- 2	91016.6	-38545.4	0.0	-26796.6	142.1	541.7				
TENSIONI										
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty			



17- 1 si	SaStSctZ		-393.9	0.0	-28.5	0.4	0.4
17- 2 si	Ty		-351.9	0.0	-25.0	0.1	0.4

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	
				Trasv. Z	N.	12 A	6.0	
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-61573.2	66011.8	0.0	-10893.0	370.0	202.6	
17- 2	-65443.5	58714.2	0.0	-10773.9	480.9	235.8	

TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	Sa Sc	-230.7	0.0	-17.3	0.3	0.2	
17- 2 si	St TzTy	-223.3	0.0	-16.7	0.4	0.2	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	
				Trasv. Z	N.	12 A	6.0	
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	9328.0	-105231.1	0.0	-9580.5	608.5	202.6	
17- 2	17100.4	-67872.4	0.0	-9461.4	242.4	235.8	

TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSctZ	-226.6	0.0	-17.7	0.5	0.2	
17- 2 si	Ty	-177.6	0.0	-13.4	0.2	0.2	

PILASTRATA : N. 142 P036 CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
207	0.	115.	121	266
249	115.	230.	266	423
479	230.	580.	423	557
612	580.	930.	557	656
734	930.	1280.	656	711

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	soll.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	
				Trasv. Z	N.	12 A	6.0	
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 2	274725.5	-1658.1	0.0	-10370.0	-26.2	-2323.3	

TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 2 si	SaStSctZTy	484.3	0.0	-32.1	0.0	1.8	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	
				Trasv. Z	N.	12 A	6.0	
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-17386.3	-879.2	0.0	-10017.2	-1.6	-2118.7	
17- 2	7542.3	1356.6	0.0	-9938.8	-26.2	-2323.3	

TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	Sa Sc	-100.8	0.0	-6.9	0.0	1.6	
17- 2 si	St TzTy	-92.0	0.0	-6.2	0.0	1.8	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	
				Trasv. Z	N.	12 A	6.0	
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-21864.1	-879.2	0.0	-14405.3	-79.8	1313.0	

TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSctZTy	-141.8	0.0	-9.6	0.1	1.0	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	
				Trasv. Z	N.	12 A	6.0	
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	129131.3	8302.1	0.0	-13974.0	-79.8	1313.0	



613	580.	930.	558	657
735	930.	1280.	657	712

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 0.

Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 2	244703.3	-2176.7	0.0	-10721.2	-40.6	-1817.3
21- 1	225655.2	-657.2	0.0	-9255.6	-3.1	-1953.4

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	Sa SctZ	-376.6	0.0	-28.5	0.0	1.4
21- 1	si	St Ty	361.7	0.0	-26.1	0.0	1.5

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 115.

Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 2	35718.0	2497.0	0.0	-10289.9	-40.6	-1817.3
21- 1	1019.4	-296.0	0.0	-8824.3	-3.1	-1953.4

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 2	si	Sa SctZ	-121.3	0.0	-8.4	0.0	1.4
21- 1	si	St Ty	-75.6	0.0	-5.1	0.0	1.5

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 115.

Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	2319.9	-264.1	0.0	-15622.4	-41.2	2491.1
17- 2	25260.6	2497.0	0.0	-15339.3	92.8	2461.7

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St Ty	-133.9	0.0	-9.0	0.0	1.9
17- 2	si	Sa SctZ	-154.6	0.0	-10.6	0.1	1.9

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 230.

Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	288798.3	4478.7	0.0	-15191.1	-41.2	2491.1
17- 2	308353.7	-8179.9	0.0	-14908.0	92.8	2461.7

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	St Ty	-451.0	0.0	-33.7	0.0	1.9
17- 2	si	Sa SctZ	-485.9	0.0	-36.6	0.1	1.9

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 230.

Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-524279.3	5440.9	0.0	-43362.6	50.7	3025.7

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSctZTy	-864.1	0.0	-62.4	0.0	2.3

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 580.

Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	571241.4	-12305.0	0.0	-42050.1	50.7	3234.4

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSctZTy	-927.0	0.0	-67.5	0.0	2.5

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1| PROGR. 580.

Trasv. Z	N. 12 A 6.0
SNELLEZZA	roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00





ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 21 L	180. om	1.00 cz	1.00 cy	1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	126027.6	-74829.5	0.0	-21852.6	294.6	2726.1	
21- 1	69946.3	-79811.3	0.0	-18859.6	418.5	1819.2	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSc Ty	-385.4	0.0	-28.2	0.2	2.1	
21- 1 si	Tz	-315.2	0.0	-23.2	0.3	1.4	
							PROGR.
							760.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170. om	1.00 cz	1.00 cy	1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-17711.4	2364.7	0.0	-18785.9	-408.9	1748.9	
17- 2	12303.8	-39194.4	0.0	-18568.3	-789.8	1342.7	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	Sa StSc Ty	-176.7	0.0	-12.0	0.3	1.3	
17- 2 si	Sa ScTz	-213.4	0.0	-15.1	0.6	1.0	
							PROGR.
							930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170. om	1.00 cz	1.00 cy	1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	288222.1	71877.2	0.0	-18148.4	-408.9	1850.3	
17- 2	231951.3	95072.9	0.0	-17930.8	-789.8	1241.4	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSc Ty	-566.1	0.0	-42.8	0.3	1.4	
17- 2 si	Tz	-522.2	0.0	-39.5	0.6	1.0	
							PROGR.
							930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om	1.00 cz	1.00 cy	1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-356764.9	-54428.2	0.0	-10063.9	-298.4	2616.4	
17- 2	-359065.4	-51111.7	0.0	-9948.5	-300.1	2721.3	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	Sc Ty	915.7	0.0	-50.7	0.2	2.0	
17- 2 si	SaSt TzTy	923.0	0.0	-50.5	0.2	2.1	
							PROGR.
							1280.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om	1.00 cz	1.00 cy	1.00
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	595498.3	49997.5	0.0	-8751.4	-298.4	2825.1	
17- 2	556861.6	53909.9	0.0	-8636.0	-300.1	2512.6	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSc Ty	1892.3	0.0	-78.7	0.2	2.2	
17- 2 si	Tz	1759.6	0.0	-74.9	0.2	1.9	

PILASTRATA : N. 145 P039

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.					
210	0.	115.	132	277					
252	115.	230.	277	434					
446	230.	410.	434	492					
491	410.	580.	492	560					
585	580.	760.	560	599					
625	760.	930.	599	659					
737	930.	1280.	659	714					
Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soli.
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om	1.00 cz	1.00 cy	1.00
PROGR.							
0.							

SOLLECITAZIONI																
Caso	MZ	MY	MT	N	TZ	TY										
17- 1	39518.4	-3383.6	0.0	-4860.9	-61.0	-433.1										
17- 2	37967.6	-4091.1	0.0	-4317.7	-74.1	-461.0										
TENSIONI																
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty									
17- 1	si	Sa Sc	-80.1	0.0	-5.7	0.0	0.3									
17- 2	si	St TzTy	-75.2	0.0	-5.4	0.1	0.4									
ARMATURE Long. tot.						N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	115.
SNELLEZZA						roz 14.	roy 9.	Lamb 13	L	115.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI																
Caso	MZ	MY	MT	N	TZ	TY										
17- 2	-15049.5	4435.1	0.0	-3886.5	-74.1	-461.0										
TENSIONI																
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty									
17- 2	si	SaStScTzTy	-51.3	0.0	-3.6	0.1	0.4									
ARMATURE Long. tot.						N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	115.
SNELLEZZA						roz 14.	roy 9.	Lamb 13	L	115.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI																
Caso	MZ	MY	MT	N	TZ	TY										
17- 1	904.5	8487.5	0.0	-7475.3	487.7	-1810.1										
17- 2	-6136.9	9801.4	0.0	-6692.2	509.6	-948.8										
TENSIONI																
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty									
17- 1	si	SaSt Ty	-73.7	0.0	-5.1	0.4	1.4									
17- 2	si	StTz	-73.3	0.0	-5.1	0.4	0.7									
ARMATURE Long. tot.						N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	230.
SNELLEZZA						roz 14.	roy 9.	Lamb 13	L	115.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI																
Caso	MZ	MY	MT	N	TZ	TY										
17- 1	-207257.7	-47594.4	0.0	-7044.0	487.7	-1810.1										
17- 2	-115247.1	-48803.0	0.0	-6260.9	509.6	-948.8										
TENSIONI																
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty									
17- 1	si	SaStSc Ty	505.3	0.0	-31.8	0.4	1.4									
17- 2	si	Tz	-263.1	0.0	-20.4	0.4	0.7									
ARMATURE Long. tot.						N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	230.
SNELLEZZA						roz 14.	roy 9.	Lamb 21	L	180.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI																
Caso	MZ	MY	MT	N	TZ	TY										
17- 1	-255777.9	-32201.1	0.0	-21582.9	-679.3	2478.0										
TENSIONI																
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty									
17- 1	si	SaStScTzTy	-465.4	0.0	-34.0	0.5	1.9									
ARMATURE Long. tot.						N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	410.
SNELLEZZA						roz 14.	roy 9.	Lamb 21	L	180.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI																
Caso	MZ	MY	MT	N	TZ	TY										
17- 1	199922.1	90076.6	0.0	-20907.9	-679.3	2585.3										
TENSIONI																
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty									
17- 1	si	SaStScTzTy	-480.6	0.0	-35.8	0.5	2.0									
ARMATURE Long. tot.						N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	410.
SNELLEZZA						roz 14.	roy 9.	Lamb 20	L	170.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI																
Caso	MZ	MY	MT	N	TZ	TY										
17- 2	144917.5	-79200.2	0.0	-15935.6	-692.4	-1062.4										
TENSIONI																
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty									
17- 2	si	SaStScTzTy	-373.9	0.0	-28.0	0.5	0.8									
ARMATURE Long. tot.						N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	580.
SNELLEZZA						roz 14.	roy 9.	Lamb 20	L	170.	om 1.00	cz 1.00	cy 1.00			
SOLLECITAZIONI																
Caso	MZ	MY	MT	N	TZ	TY										
17- 1	70440.5	13803.2	0.0	-16464.6	-460.6	209.2										
17- 2	-44308.5	38510.6	0.0	-15298.1	-692.4	-1163.8										
TENSIONI																
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty									
17- 1	si	Sa	-217.5	0.0	-15.3	0.4	0.2									
17- 2	si	StScTzTy	-213.5	0.0	-15.3	0.5	0.9									
ARMATURE Long. tot.						N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	PROGR.	580.
SNELLEZZA						roz 14.	roy 9.	Lamb 21	L	180.	om 1.00	cz 1.00	cy 1.00			

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-237597.1	11139.3	0.0	-13744.7	-208.2	2201.7
17- 2	-277859.5	34649.1	0.0	-12818.2	57.0	2469.9

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Tz	-385.2	0.0	-28.7	0.2	1.7
17- 2	si	SaStSc Ty	-486.1	0.0	-37.1	0.0	1.9

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	21 L	180.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	168374.0	48608.9	0.0	-13069.7	-208.2	2309.1
17- 2	157056.4	24397.8	0.0	-12143.2	57.0	2362.5

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa SctZ Ty	-344.8	0.0	-25.8	0.2	1.8
17- 2	si	St Ty	-288.3	0.0	-21.3	0.0	1.8

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	20 L	170.	om	1.00	cz	1.00	cy	1.00
-----	-----	-----	----	------	------	------	----	------	----	------	----	------

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	22872.9	-114644.9	0.0	-9324.8	-771.8	467.3
17- 2	101313.2	-121512.6	0.0	-9046.6	-847.8	-342.3

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa SctZ Ty	-257.6	0.0	-20.4	0.6	0.4
17- 2	si	SaStScTz Ty	-377.2	0.0	-29.9	0.7	0.3

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	20 L	170.	om	1.00	cz	1.00	cy	1.00
-----	-----	-----	----	------	------	------	----	------	----	------	----	------

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	110931.5	16569.5	0.0	-8687.3	-771.8	568.7
17- 2	34514.1	22616.2	0.0	-8409.1	-847.8	-443.6

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa Sc Ty	-203.0	0.0	-15.0	0.6	0.4
17- 2	si	St Tz Ty	-128.1	0.0	-9.3	0.7	0.3

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-166639.6	6438.8	0.0	-6089.9	-81.1	1400.5
17- 2	-185944.4	11078.3	0.0	-5992.5	-74.1	1563.7

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Tz Ty	314.2	0.0	-20.3	0.1	1.1
17- 2	si	SaStSc Ty	399.3	0.0	-23.4	0.1	1.2

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA

roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
-----	-----	-----	----	------	------	------	----	------	----	------	----	------

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	360037.0	34823.7	0.0	-4777.4	-81.1	1609.1

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStScTzTy	1185.1	0.0	-48.5	0.1	1.2

PILASTRATA : N. 146 P040 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
212	0.	115.	141	285
254	115.	230.	285	443
483	230.	580.	443	563
616	580.	930.	563	662

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara Ventox	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente Ventox	2
20	Frequente VentoY	2
21	Quasi Perm	1



-----										PROGR.	0.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY				
	17- 1	-8342.3	-97329.9	0.0	-6349.5	-1153.8	365.0				
	21- 1	-3208.8	-98645.5	0.0	-5520.8	-1179.9	211.1				
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty				
	17- 1 si	Sa Sc Ty	-196.0	0.0	-16.0	0.9	0.3				
	21- 1 si	St Tz	185.7	0.0	-15.4	0.9	0.2				
-----										PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY				
	17- 1	33634.3	35355.3	0.0	-5918.3	-1153.8	365.0				
	21- 1	21070.5	37037.9	0.0	-5089.6	-1179.9	211.1				
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty				
	17- 1 si	Sa Sc Ty	-124.8	0.0	-9.3	0.9	0.3				
	21- 1 si	St Tz	-108.9	0.0	-8.2	0.9	0.2				
-----										PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY				
	17- 1	33634.3	32765.1	0.0	-8015.9	511.1	-2306.8				
	17- 2	19296.0	32362.3	0.0	-8006.2	530.5	-1347.0				
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty				
	17- 1 si	SaStSc Ty	-136.2	0.0	-10.0	0.4	1.8				
	17- 2 si	Tz	-122.6	0.0	-9.0	0.4	1.0				
-----										PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY				
	17- 1	-231649.9	-26006.1	0.0	-7584.7	511.1	-2306.8				
	17- 2	-135606.0	-28649.6	0.0	-7575.0	530.5	-1347.0				
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty				
	17- 1 si	SaStSc Ty	517.4	0.0	-31.2	0.4	1.8				
	17- 2 si	Tz	-257.6	0.0	-19.6	0.4	1.0				
-----										PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY				
	17- 1	-254949.1	108810.7	0.0	-20597.1	674.5	1518.2				
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty				
	17- 1 si	SaStScTzTy	-582.8	0.0	-44.0	0.5	1.2				
-----										PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY				
	17- 1	276420.2	-127246.9	0.0	-19284.6	674.5	1518.2				
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty				
	17- 1 si	SaStScTzTy	-645.6	0.0	-49.4	0.5	1.2				
-----										PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY				
	17- 1	-236585.0	127049.1	0.0	-8328.9	762.1	1485.7				
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty				
	17- 1 si	SaStScTzTy	761.6	0.0	-48.1	0.6	1.1				
-----										PROGR.	930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY				
	17- 1	283398.1	-139680.8	0.0	-7016.4	762.1	1485.7				
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty				
	17- 1 si	SaStScTzTy	1038.9	0.0	-56.8	0.6	1.1				



Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
211	0.	115.	136	281
253	115.	230.	281	438
481	230.	580.	438	561
614	580.	930.	561	660

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
15	Rara	1
16	Rara Ventox	2
17	Rara Ventoy	2
18	Frequente	1
19	Frequente Ventox	2
20	Frequente Ventoy	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		PROGR. 0.

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-9259.2	77180.7	0.0	-5718.7	865.6	355.2
21- 1	-2370.0	74046.4	0.0	-4928.9	876.0	170.5

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa Sc Ty	-162.7	0.0	-13.0	0.7	0.3
21- 1	si	St Tz	-144.0	0.0	-11.7	0.7	0.1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N. <td>12 <td>A <td>6.0</td> </td></td>	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		PROGR. 115.

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	31589.7	-22366.7	0.0	-5287.5	865.6	355.2
21- 1	17243.2	-26695.9	0.0	-4497.7	876.0	170.5

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa Sc Ty	-99.9	0.0	-7.4	0.7	0.3
21- 1	si	St Tz	-85.8	0.0	-6.4	0.7	0.1

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N. <td>12 <td>A <td>6.0</td> </td></td>	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		PROGR. 115.

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	31589.7	-27936.9	0.0	-7055.1	-857.2	-2024.0

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStScTzTy	-120.6	0.0	-8.8	0.7	1.6

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N. <td>12 <td>A <td>6.0</td> </td></td>	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00		PROGR. 230.

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-201174.6	70644.8	0.0	-6623.9	-857.2	-2024.0

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStScTzTy	564.4	0.0	-34.9	0.7	1.6

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N. <td>12 <td>A <td>6.0</td> </td></td>	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		PROGR. 230.

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	-232118.6	-48184.5	0.0	-18827.7	-384.3	1270.8
17- 2	-111651.6	-62944.8	0.0	-18761.1	-452.1	650.2

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-447.7	0.0	-33.1	0.3	1.0
17- 2	si	Tz	-332.5	0.0	-24.3	0.4	0.5

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N. <td>12 <td>A <td>6.0</td> </td></td>	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00		PROGR. 580.

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
17- 1	212675.6	86314.0	0.0	-17515.2	-384.3	1270.8
17- 2	115932.8	95284.0	0.0	-17448.6	-452.1	650.2

TENSIONI

Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	SaStSc Ty	-479.2	0.0	-36.1	0.3	1.0
17- 2	si	Tz	-372.9	0.0	-27.9	0.4	0.5

PROGR. 580.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-156962.1	-132336.7	0.0	-7891.3	-759.1	1087.4
	17- 2	-95029.9	-136250.7	0.0	-7872.9	-792.2	660.9
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	Sa Sc Ty	549.4	0.0	-38.8	0.6	0.8
	17- 2 si	St Tz	413.3	0.0	-31.8	0.6	0.5

PROGR. 930.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	223635.9	133351.6	0.0	-6578.8	-759.1	1087.4
	17- 2	136281.2	141013.3	0.0	-6560.4	-792.2	660.9
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	Sa Sc Ty	832.1	0.0	-48.2	0.6	0.8
	17- 2 si	St Tz	588.5	0.0	-38.1	0.6	0.5

PILASTRATA : N. 149 P043 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
215	0.	115.	154	298
257	115.	230.	298	456
486	230.	580.	456	566
619	580.	930.	566	665

  

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO	N	Descrizione	sol1.
15	Rara		1
16	Rara VentoX		2
17	Rara VentoY		2
18	Frequente		1
19	Frequente VentoX		2
20	Frequente VentoY		2
21	Quasi Perm		1

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-16959.4	-2371.0	0.0	-3256.3	18.8	172.8
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStSCTzTy	-45.3	0.0	-3.2	0.0	0.1

PROGR. 115.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	2909.6	-4534.2	0.0	-2825.1	18.8	172.8
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStSCTzTy	-31.7	0.0	-2.2	0.0	0.1

PROGR. 115.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	1547.1	-11965.5	0.0	-4930.2	-695.7	858.4
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStSCTzTy	-57.0	0.0	-4.0	0.6	0.7

PROGR. 230.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	100260.2	68040.8	0.0	-4498.9	-695.7	858.4
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStSCTzTy	319.0	0.0	-22.3	0.6	0.7

PROGR. 230.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
16- 2	92668.2	78029.5	0.0	-12902.1	467.8	-708.3			
17- 1	113070.4	91602.1	0.0	-13263.3	453.5	-785.8			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
16- 2	si	Tz	-295.5	0.0	-22.2	0.4	0.5		
17- 1	si	SaStSc Ty	-344.4	0.0	-26.1	0.4	0.6		
							PROGR.	580.	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-168071.1	-102060.3	0.0	-11950.8	653.1	-820.7			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	SaStSc Ty	-438.0	0.0	-33.9	0.5	0.6		
							PROGR.	580.	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	178487.3	61629.4	0.0	-5224.2	314.1	-1065.4			
17- 2	174729.6	50703.8	0.0	-4924.9	374.1	-1033.3			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	SaStSc Ty	533.6	0.0	-31.1	0.2	0.8		
17- 2	si	Tz	507.5	0.0	-28.9	0.3	0.8		
							PROGR.	930.	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-200509.7	-83248.3	0.0	-3911.7	513.7	-1100.3			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	SaStSc Ty	751.0	0.0	-37.9	0.4	0.8		

PILASTRATA : N. 150 P044 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
214	0.	115.	150	294
256	115.	230.	294	452
485	230.	580.	452	565
618	580.	930.	565	664

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		sol1.
N	Descrizione	
15	Rara	1
16	Rara VentoX	2
17	Rara VentoY	2
18	Frequente	1
19	Frequente VentoX	2
20	Frequente VentoY	2
21	Quasi Perm	1

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-3859.1	-83689.1	0.0	-5790.2	-1221.0	-44.0			
21- 1	-4849.0	-91974.3	0.0	-5082.6	-1267.1	-1.4			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Ty	-165.7	0.0	-13.4	1.0	0.0		
21- 1	si	SaStSc Ty	178.3	0.0	-14.6	1.0	0.0		
							PROGR.	115.	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
17- 1	-8915.8	56728.8	0.0	-5359.0	-1221.0	-44.0			
21- 1	-5005.3	53739.2	0.0	-4651.3	-1267.1	-1.4			
TENSIONI									
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty		
17- 1	si	Sa Sc Ty	-127.9	0.0	-10.0	1.0	0.0		
21- 1	si	St Tz	-114.8	0.0	-9.0	1.0	0.0		
							PROGR.	115.	

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-8915.9	41760.6	0.0	-7203.7	136.9	796.2
	17- 2	-1757.0	40427.3	0.0	-6949.4	172.9	304.8
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStSc Ty	-117.9	0.0	-8.8	0.1	0.6
	17- 2 si	Tz	-107.6	0.0	-8.0	0.1	0.2
						PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	82646.3	26014.8	0.0	-6772.4	136.9	796.2
	17- 2	33295.9	20538.6	0.0	-6518.1	172.9	304.8
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStSc Ty	-173.6	0.0	-13.0	0.1	0.6
	17- 2 si	Tz	-108.7	0.0	-7.9	0.1	0.2
						PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	89489.3	79262.0	0.0	-21311.9	381.8	-502.0
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStScTzTy	-352.5	0.0	-25.8	0.3	0.4
						PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-92317.0	-89305.0	0.0	-19999.4	581.4	-536.9
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStScTzTy	-357.2	0.0	-26.3	0.5	0.4
						PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	58892.5	54276.2	0.0	-8533.2	283.1	-373.1
	17- 2	39379.5	41496.3	0.0	-8320.7	331.7	-252.2
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	Sa Sc Ty	-196.9	0.0	-14.8	0.2	0.3
	17- 2 si	St Tz	-155.3	0.0	-11.5	0.3	0.2
						PROGR.	930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	17- 1	-77784.0	-79727.6	0.0	-7220.7	482.7	-408.0
TENSIONI	Caso Ver	massimi	Sa	St	Sc	Tz	Ty
	17- 1 si	SaStScTzTy	-264.3	0.0	-20.7	0.4	0.3
PILASTRATA :	N. 151	P045		CRITERI :	1		
	Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.		
	213	0.	115.	144	288		
	255	115.	230.	288	446		
	484	230.	580.	446	564		
	617	580.	930.	564	663		
	Sez.	Progr.I.	Progr.F.	L	B	H	S1
	Rett.	0.	930.	930.	30.	50.	0.
						S2	S3
						0.	0.
						S4	S4
						0.	0.
CASI DI CARICO	N	Descrizione		so11.			
	15	Rara		1			
	16	Rara VentoX		2			
	17	Rara VentoY		2			
	18	Frequente		1			
	19	Frequente VentoX		2			
	20	Frequente VentoY		2			
	21	Quasi Perm		1			
						PROGR.	0.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	14744.3	-1456.0	0.0	-3327.9	24.0	-192.9	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSCTz	-42.8	0.0	-3.0	0.0	0.1	
	Ty						115.
PROGR.							
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-7434.3	-4219.3	0.0	-2896.7	24.0	-192.9	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSCTz	-36.0	0.0	-2.5	0.0	0.1	
	Ty						115.
PROGR.							
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	-11568.7	-14133.5	0.0	-4818.7	-747.8	147.9	
17- 2	-6506.6	-8615.8	0.0	-4680.2	-500.3	-214.6	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSCTz	-67.5	0.0	-4.9	0.6	0.1	
17- 2 si	Ty	-55.3	0.0	-3.9	0.4	0.2	
							230.
PROGR.							
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	5437.9	71868.3	0.0	-4387.4	-747.8	147.9	
17- 2	-31188.6	48914.1	0.0	-4248.9	-500.3	-214.6	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSCTz	-142.0	0.0	-11.7	0.6	0.1	
17- 2 si	Ty	-139.1	0.0	-10.9	0.4	0.2	
							230.
PROGR.							
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	35617.1	94232.4	0.0	-13732.9	474.4	177.8	
17- 2	-15286.9	47475.7	0.0	-13270.1	374.3	382.5	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSCTz	-262.7	0.0	-19.7	0.4	0.1	
17- 2 si	Ty	-181.2	0.0	-13.1	0.3	0.3	
							580.
PROGR.							
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	91727.0	-106735.6	0.0	-12420.4	674.0	142.9	
17- 2	124704.1	-48602.7	0.0	-11957.6	174.7	417.4	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
17- 1 si	SaStSCTz	-341.4	0.0	-26.2	0.5	0.1	
17- 2 si	Ty	-283.1	0.0	-21.1	0.1	0.3	
							580.
PROGR.							
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
16- 2	-235043.6	60866.3	0.0	-5348.1	378.1	1274.9	
17- 1	-234827.5	65692.0	0.0	-5428.2	333.0	1269.3	
17- 2	-235845.1	50661.3	0.0	-5256.4	363.7	1292.5	
TENSIONI							
Caso Ver	massimi	Sa	St	Sc	Tz	Ty	
16- 2 si	Tz	736.3	0.0	-37.9	0.3	1.0	
17- 1 si	Sa Sc	743.3	0.0	-38.7	0.3	1.0	
17- 2 si	Sa St Ty	719.0	0.0	-36.3	0.3	1.0	
							930.
PROGR.							
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
17- 1	203321.7	-85776.9	0.0	-4115.7	532.6	1234.4	

17- 2	222653.0	-41691.2	0.0	-3943.9	164.1	1327.4	
TENSIONI							
Caso	Ver	massimi	Sa	St	Sc	Tz	Ty
17- 1	si	Sa	SCTz	0.0	-38.6	0.4	1.0
17- 2	si	St	Ty	0.0	-33.4	0.1	1.0

## VERIFICA PILASTRI SLU

Unita` di misura:  
 DIM. SEZIONI: cm  
 FORZE: daN  
 LUNGHEZZE: cm  
 COPPIE: daNcm  
 TENSIONI: daN/cm2  
 BARRE: mm  
 AREA BARRE: cm2

PILASTRATA : N. 107 P001 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
186	0.	115.	1	157
228	115.	230.	157	301
448	230.	580.	301	503

  

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO				
N	Descrizione			sol1.
1	SLU			1
2	SLU VENTOX			2
3	SLU VENTOY			2
6	SLU con SISMAX PRINC			16
7	SLU con SISMAX PRINC			16

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
7- 5	11217.0	14217.8	0.0	-971.3	327.0	-242.2								
7- 7	9955.3	14431.7	0.0	-1339.4	331.7	-311.5								

-----										PROGR.	115.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
7- 2	25546.3	-17706.9	0.0	-361.0	249.4	-122.5								
7- 7	4314.2	-23345.8	0.0	-908.2	331.7	-311.5								

-----										PROGR.	115.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
7- 7	-47029.4	-21743.9	0.0	-1589.7	-1069.0	-82.4								
7-12	18162.9	35555.5	0.0	-2650.4	1704.6	2459.5								
7-15	5824.0	26128.5	0.0	-2912.0	1277.1	3960.9								

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
7-12	253353.2	-160031.7	0.0	-2219.1	1704.6	2459.5								
7-15	409134.7	-120302.1	0.0	-2480.7	1277.1	3960.9								

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
7-12	253353.2	-160031.7	0.0	-2219.1	1704.6	2459.5								
7-15	409134.7	-120302.1	0.0	-2480.7	1277.1	3960.9								



Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
7-12	si	Tz	0.64	0.40	-0.43	17.81	17.63
7-15	si	AccCls Ty	0.87	0.38	-0.53	23.77	10.95

PROGR.							
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20
					Trasv. Z	N.	12
						A	10.1
						A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L
SOLLECITAZIONI					350.	om	1.00
	cz	1.00	cy	1.00			

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
7-12	si	Tz	0.86	0.43	-0.64	19.13	24.15
7-15	si	AccCls Ty	1.12	0.40	-0.76	26.60	15.27

PROGR.							
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20
					Trasv. Z	N.	12
						A	10.1
						A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L
SOLLECITAZIONI					350.	om	1.00
	cz	1.00	cy	1.00			

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
7-12	si	Tz	0.87	0.42	-0.62	19.13	24.15
7-15	si	AccCls Ty	1.00	0.40	-0.68	26.60	15.27

PILASTRATA : N. 108 P002 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
187	0.	115.	4	160
229	115.	230.	160	304
449	230.	580.	304	504

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

PROGR.							
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20
					Trasv. Z	N.	12
						A	10.1
						A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L
SOLLECITAZIONI					115.	om	1.00
	cz	1.00	cy	1.00			

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Tz	0.28	0.43	-0.21	15.04	324.91
7-2	si	Ty	0.35	0.39	-0.22	17.95	47.13
7-5	si	AccCls	0.38	0.38	-0.23	16.99	80.74

PROGR.							
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20
					Trasv. Z	N.	12
						A	10.1
						A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L
SOLLECITAZIONI					115.	om	1.00
	cz	1.00	cy	1.00			

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Tz	-0.05	0.83	-0.06	15.04	324.91
7-2	si	Ty	0.09	0.46	-0.07	17.95	47.13
7-15	si	AccCls	0.13	0.50	-0.13	28.99	53.28



7-15	-21224.7	-14325.5	0.0	-2013.2	184.0	-136.4			
DEFORMAZIONI									
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
7- 2 si	Acccls Ty	0.04	0.48	-0.04	175.35	159.31			
7-15 si	Tz	-0.03	0.69	-0.03	165.00	317.95			
							PROGR.	115.	
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om	1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
7- 2	17846.3	35555.1	0.0	-1472.2	1633.2	-2036.6			
7-15	-38486.6	-15124.5	0.0	-2993.3	-754.3	3715.1			
DEFORMAZIONI									
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
7- 2 si	Acccls Ty	0.06	0.48	-0.05	18.59	21.29			
7-15 si	Tz	-0.04	0.69	-0.05	40.25	11.67			
							PROGR.	230.	
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om	1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
7- 2	-216504.2	-152502.3	0.0	-1040.9	1633.2	-2036.6			
7-15	388894.9	71865.6	0.0	-2562.1	-754.3	3715.1			
DEFORMAZIONI									
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
7- 2 si	Acccls Ty	0.60	0.39	-0.39	18.59	21.29			
7-15 si	Tz	0.76	0.37	-0.44	40.25	11.67			
							PROGR.	230.	
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om	1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
7- 2	-365245.9	-251694.2	0.0	-4648.5	-1413.9	1278.2			
7-11	515058.0	122182.7	0.0	-6685.4	554.1	-2785.2			
7-15	510418.5	214923.7	0.0	-6360.9	1042.7	-2766.6			
DEFORMAZIONI									
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
7- 2 si	Acccls Ty	0.92	0.42	-0.65	21.47	33.92			
7-11 si	Tz	0.95	0.40	-0.62	54.79	15.57			
7-15 si	Acccls Ty	1.08	0.41	-0.75	29.12	15.67			
							PROGR.	580.	
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om	1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
7- 2	82127.3	243169.6	0.0	-3336.0	-1413.9	1278.2			
7-11	-459776.2	-71765.3	0.0	-5372.9	554.1	-2785.2			
7-15	-457882.5	-150028.2	0.0	-5048.4	1042.7	-2766.6			
DEFORMAZIONI									
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
7- 2 si	Acccls Ty	0.51	0.40	-0.34	21.47	33.92			
7-11 si	Tz	0.81	0.38	-0.50	54.79	15.57			
7-15 si	Acccls Ty	0.92	0.40	-0.61	29.12	15.67			

PILASTRATA : N. 110 P004

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.					
189	0.	115.	15	171					
231	115.	230.	171	315					
451	230.	580.	315	506					
Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	580.	580.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAY PRINC	16
7	SLU con SISMAY PRINC	16

							PROGR.	0.	
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1		
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om	1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 2	-11707.1	-116167.9	0.0	-5853.6	-1611.7	-65.0			
7- 5	-62199.6	-55436.8	0.0	-2925.6	-944.4	1412.9			



2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-114830.7	114830.7	0.0	-57415.4	10.3	872.2								
7- 7	-56362.2	242033.2	0.0	-28181.1	1596.0	372.1								

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	125227.5	112588.2	0.0	-56294.1	10.3	872.2								
7- 7	60135.2	-125040.9	0.0	-27318.6	1596.0	372.1								

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 5	-394517.7	-54307.6	0.0	-13346.0	-265.7	2256.2								
7-12	136685.5	-296008.6	0.0	-13577.4	-1700.4	-697.8								
7-15	252854.6	-263126.0	0.0	-13436.6	-1504.7	-1344.1								

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 5	395145.8	38699.8	0.0	-12033.5	-265.7	2256.2								
7-12	-107558.9	299143.5	0.0	-12264.9	-1700.4	-697.8								
7-15	-217590.3	263525.5	0.0	-12124.1	-1504.7	-1344.1								

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 5	395145.8	38699.8	0.0	-12033.5	-265.7	2256.2								
7-12	-107558.9	299143.5	0.0	-12264.9	-1700.4	-697.8								
7-15	-217590.3	263525.5	0.0	-12124.1	-1504.7	-1344.1								

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 5	395145.8	38699.8	0.0	-12033.5	-265.7	2256.2								
7-12	-107558.9	299143.5	0.0	-12264.9	-1700.4	-697.8								
7-15	-217590.3	263525.5	0.0	-12124.1	-1504.7	-1344.1								

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 5	395145.8	38699.8	0.0	-12033.5	-265.7	2256.2								
7-12	-107558.9	299143.5	0.0	-12264.9	-1700.4	-697.8								
7-15	-217590.3	263525.5	0.0	-12124.1	-1504.7	-1344.1								

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 5	395145.8	38699.8	0.0	-12033.5	-265.7	2256.2								
7-12	-107558.9	299143.5	0.0	-12264.9	-1700.4	-697.8								
7-15	-217590.3	263525.5	0.0	-12124.1	-1504.7	-1344.1								

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-13808.1	154439.4	0.0	-6904.0	1983.7	-128.4								
6-12	7757.1	151556.2	0.0	-3878.5	1567.4	-205.9								
7- 5	-33929.1	82541.6	0.0	-3710.6	1222.1	905.2								

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Clstz	0.18	0.50	-0.18	15.30	337.59
6-12	si	Acc	0.23	0.42	-0.17	19.37	210.61
7- 5	si	Ty	0.12	0.50	-0.12	24.84	47.90

PROGR. 115.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 2	-16061.4	-73685.6	0.0	-6343.4	1983.7	-128.4
7- 2	68713.6	-65605.2	0.0	-3410.4	1162.8	880.2
7- 5	70184.2	-59211.1	0.0	-3279.3	1222.1	905.2

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Tz	-0.08	0.68	-0.10	15.30	337.59
7- 2	si	AccClS	0.13	0.50	-0.13	26.11	49.26
7- 5	si	Ty	0.13	0.50	-0.13	24.84	47.90

PROGR. 115.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	14630.2	-54042.1	0.0	-7315.1	-296.9	-697.0
7- 2	68713.6	-47742.5	0.0	-4296.7	-211.6	-4486.7
7-12	-69843.8	-26722.0	0.0	-3719.7	-115.5	4774.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Tz	-0.07	0.88	-0.08	102.24	62.21
7- 2	si	AccClS	-0.09	0.57	-0.11	143.49	9.66
7-12	si	Ty	-0.07	0.57	-0.09	262.80	9.08

PROGR. 230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-67159.9	-19894.4	0.0	-6754.5	-296.9	-697.0
7- 9	478709.2	-34104.3	0.0	-3471.5	-94.1	4768.3
7-12	479166.5	-24487.3	0.0	-3288.5	-115.5	4774.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Tz	-0.07	0.82	-0.08	102.24	62.21
7- 9	si	AccClS	0.86	0.35	-0.47	322.74	9.09
7-12	si	Ty	0.86	0.35	-0.45	262.80	9.08

PROGR. 230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 5	-118716.0	-157367.4	0.0	-9942.8	-914.3	616.6
7-11	490610.6	72619.4	0.0	-8767.6	352.9	-2660.9
7-15	483831.3	118669.0	0.0	-8588.6	604.3	-2624.6

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 5	si	Tz	0.23	0.55	-0.28	33.20	70.33
7-11	si	Ty	0.78	0.41	-0.53	86.03	16.30
7-15	si	AccClS	0.83	0.42	-0.59	50.24	16.52

PROGR. 580.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 5	97151.8	162651.3	0.0	-8630.3	-914.3	616.6
7- 2	382449.7	141681.6	0.0	-8649.0	-796.2	2356.8
7-11	-440707.3	-50905.0	0.0	-7455.1	352.9	-2660.9
7-15	-434805.2	-92852.8	0.0	-7276.1	604.3	-2624.6

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 5	si	Tz	0.24	0.52	-0.27	33.20	70.33
7- 2	si	ClS	0.66	0.44	-0.52	38.13	18.40
7-11	si	Ty	0.69	0.40	-0.46	86.03	16.30
7-15	si	Acc	0.74	0.41	-0.51	50.24	16.52

PILASTRATA : N. 113 P007

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
191	0.	115.	24	179
233	115.	230.	179	324

454	230.	580.	324	509
587	580.	930.	509	610
705	930.	1280.	610	674

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
					om	1.00	cz	1.00	cy	1.00

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY							
	3-2	-13288.5	-14329.9	0.0	-6644.3	-214.3	202.3							
	6-7	-7903.7	-15315.9	0.0	-3951.9	-302.6	-11.5							
	7-7	-5438.4	-5438.4	0.0	-2719.2	-8.0	349.0							

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
3-2	si	AccCls	-0.04	1.00	-0.04	141.66	214.34
6-7	si	Tz	-0.03	1.00	-0.03	100.34	3754.74
7-7	si	Ty	-0.02	1.00	-0.02	3814.56	124.23

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
					om	1.00	cz	1.00	cy	1.00

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY							
	6-7	-7041.2	19479.3	0.0	-3520.6	-302.6	-11.5							
	7-7	38419.3	-4575.9	0.0	-2287.9	-8.0	349.0							
	7-10	-20065.4	16117.4	0.0	-5068.3	-262.9	-49.8							

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
6-7	si	Tz	-0.03	1.00	-0.03	100.34	3754.74
7-7	si	Ty	-0.03	0.64	-0.04	3814.56	124.23
7-10	si	AccCls	-0.04	1.00	-0.04	115.48	870.28

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
					om	1.00	cz	1.00	cy	1.00

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY							
	6-10	21015.5	-19671.1	0.0	-6459.4	-1058.1	-1357.8							
	7-10	-40881.1	19933.0	0.0	-8558.4	623.3	4870.3							

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
6-10	si	Tz	-0.05	1.00	-0.05	28.69	31.94
7-10	si	AccCls	-0.06	1.00	-0.07	48.71	8.90

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
					om	1.00	cz	1.00	cy	1.00

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY							
	6-10	-140780.5	102023.0	0.0	-6028.2	-1058.1	-1357.8							
	7-10	520907.2	-51779.1	0.0	-8127.2	623.3	4870.3							

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
6-10	si	Tz	0.24	0.50	-0.24	28.69	31.94
7-10	si	AccCls	0.83	0.39	-0.53	48.71	8.90

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
					Trasv. Z	N.	12	A	6.0	
					om	1.00	cz	1.00	cy	1.00

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY							
	6-7	230386.9	-231546.8	0.0	-19724.1	-1041.9	-1324.2							
	7-5	-655787.9	-28228.4	0.0	-14114.2	4.2	2708.3							
	7-10	674307.0	-159136.6	0.0	-24417.5	-686.8	-3325.7							
	7-12	694188.8	-60481.6	0.0	-25588.3	-200.5	-3408.2							

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
6-7	si	Tz	-0.39	0.59	-0.45	29.14	32.75
7-5	si	Acc	0.90	0.41	-0.63	7183.53	16.01
7-10	si	Cls	0.81	0.50	-0.81	44.20	13.04
7-12	si	Ty	0.70	0.50	-0.70	151.39	12.72

PROGR. 580.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-7	-265098.0	133104.4	0.0	-18411.6	-1041.9	-1324.2	
7-10	-499377.4	81240.9	0.0	-23105.0	-686.8	-3325.7	
7-12	-489174.5	48551.5	0.0	-24275.8	-200.5	-3408.2	

DEFORMAZIONI							
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty
6-7	si	Tz	-0.32	0.62	-0.36	29.14	32.75
7-10	si	Acccls	-0.46	0.55	-0.53	44.20	13.04
7-12	si	Ty	-0.42	0.58	-0.48	151.39	12.72
						PROGR.	580.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3-2	293971.5	107876.4	0.0	-19780.5	566.0	-1844.2	
6-12	195580.0	133484.4	0.0	-14101.4	761.9	-1116.2	

DEFORMAZIONI							
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty
3-2	si	Acccls	-0.32	0.64	-0.36	53.64	23.51
6-12	si	Tz	-0.26	0.60	-0.31	39.85	38.85
						PROGR.	930.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3-1	-279672.5	-89493.5	0.0	-17509.5	562.6	-1772.0	
6-12	-195400.5	-133193.3	0.0	-12788.9	761.9	-1116.2	
7-12	-340252.1	-92615.2	0.0	-14603.2	549.6	-1749.9	

DEFORMAZIONI							
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty
3-1	si	Ty	-0.29	0.63	-0.33	53.96	24.47
6-12	si	Tz	-0.26	0.58	-0.31	39.85	38.85
7-12	si	Acccls	0.36	0.53	-0.40	55.24	24.78
						PROGR.	930.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-10	41596.7	147784.1	0.0	-5064.1	899.9	-287.6	
7-12	348033.4	44483.1	0.0	-6499.9	255.1	-2286.3	

DEFORMAZIONI							
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty
6-10	si	Tz	0.23	0.46	-0.20	33.74	150.79
7-12	si	Acccls	0.53	0.41	-0.36	119.03	18.97
						PROGR.	1280.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-10	-59442.3	-149243.8	0.0	-3751.6	899.9	-287.6	
7-12	-452684.7	-104574.6	0.0	-5187.4	255.1	-2286.3	

DEFORMAZIONI							
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty
6-10	si	Tz	0.28	0.43	-0.22	33.74	150.79
7-12	si	Acccls	0.85	0.39	-0.54	119.03	18.97

PILASTRATA : N. 114 P008 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
192	0.	115.	28	183
234	115.	230.	183	328
455	230.	580.	328	510
588	580.	930.	510	611
706	930.	1280.	611	675

  

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAY PRINC	16
7	SLU con SISMAY PRINC	16



-----										PROGR.			0.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y		N.	20	A	10.1				
						Trasv. Z		N.	12	A	6.0				
SNELLEZZA		roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI															
Caso		MZ		MY		MT		N		TZ		TY			
3- 1	si	-219084.9		-20656.8		0.0		-10328.4		-338.7		2501.4			
6- 5	si	-150168.9		-42201.8		0.0		-5868.4		-891.0		1700.4			
7- 5	si	-262627.3		-23367.6		0.0		-5351.7		-489.0		2011.9			
DEFORMAZIONI															
Caso	Ver	massimi		Eacc		ξ		Ecls		Vrd/Tz		Vrd/Ty			
3- 1	si	Ty		-0.18		0.56		-0.21		89.63		17.33			
6- 5	si	Tz		0.17		0.51		-0.17		34.07		25.50			
7- 5	si	AccCls		0.37		0.41		-0.26		62.09		21.55			

-----										PROGR.			115.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y		N.	20	A	10.1				
						Trasv. Z		N.	12	A	6.0				
SNELLEZZA		roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI															
Caso		MZ		MY		MT		N		TZ		TY			
3- 1	si	68576.4		21379.5		0.0		-9767.8		-338.7		2501.4			
6- 5	si	48127.8		60291.0		0.0		-5437.2		-891.0		1700.4			
7-10	si	145051.3		19811.9		0.0		-6969.1		-314.2		1587.5			
DEFORMAZIONI															
Caso	Ver	massimi		Eacc		ξ		Ecls		Vrd/Tz		Vrd/Ty			
3- 1	si	Ty		-0.08		0.97		-0.09		89.63		17.33			
6- 5	si	Tz		-0.09		0.63		-0.10		34.07		25.50			
7-10	si	AccCls		-0.12		0.56		-0.14		96.64		27.31			

-----										PROGR.			115.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y		N.	20	A	10.1				
						Trasv. Z		N.	12	A	6.0				
SNELLEZZA		roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI															
Caso		MZ		MY		MT		N		TZ		TY			
3- 1	si	76736.3		33779.3		0.0		-16889.6		823.7		-2214.5			
3- 2	si	95245.7		34436.8		0.0		-17218.4		800.6		-2044.9			
6- 5	si	52484.6		60291.0		0.0		-10270.5		2509.6		-1304.4			
DEFORMAZIONI															
Caso	Ver	massimi		Eacc		ξ		Ecls		Vrd/Tz		Vrd/Ty			
3- 1	si	Ty		-0.12		1.00		-0.13		36.86		19.58			
3- 2	si	Cls		-0.13		1.00		-0.14		37.92		21.20			
6- 5	si	Tz		-0.10		0.85		-0.11		12.10		33.24			

-----										PROGR.			230.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y		N.	20	A	10.1				
						Trasv. Z		N.	12	A	6.0				
SNELLEZZA		roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI															
Caso		MZ		MY		MT		N		TZ		TY			
3- 1	si	-177936.7		-73351.1		0.0		-16329.0		823.7		-2214.5			
6- 2	si	-129335.9		-208100.9		0.0		-9473.8		2291.4		-1411.2			
6- 5	si	-100177.9		-228320.4		0.0		-9839.3		2509.6		-1304.4			
DEFORMAZIONI															
Caso	Ver	massimi		Eacc		ξ		Ecls		Vrd/Tz		Vrd/Ty			
3- 1	si	Ty		-0.20		0.74		-0.22		36.86		19.58			
6- 2	si	Cls		0.35		0.50		-0.35		13.25		30.73			
6- 5	si	Acc Tz		0.35		0.49		-0.34		12.10		33.24			

-----										PROGR.			230.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y		N.	20	A	10.1				
						Trasv. Z		N.	12	A	6.0				
SNELLEZZA		roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI															
Caso		MZ		MY		MT		N		TZ		TY			
6- 5	si	109528.3		-236899.1		0.0		-28329.9		-1376.1		-814.7			
7-12	si	583375.3		68463.7		0.0		-34231.9		109.5		-2956.6			
DEFORMAZIONI															
Caso	Ver	massimi		Eacc		ξ		Ecls		Vrd/Tz		Vrd/Ty			
6- 5	si	Tz		-0.32		0.78		-0.37		22.06		53.22			
7-12	si	AccCls Ty		-0.52		0.63		-0.59		277.34		14.67			

-----										PROGR.			580.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y		N.	20	A	10.1				
						Trasv. Z		N.	12	A	6.0				
SNELLEZZA		roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI															
Caso		MZ		MY		MT		N		TZ		TY			
3- 2	si	-407408.8		93757.8		0.0		-46878.9		-487.3		-2020.9			
6- 5	si	-191347.6		244728.3		0.0		-27017.4		-1376.1		-814.7			
6- 7	si	-308635.5		216646.5		0.0		-29252.9		-1214.3		-1711.8			
7-12	si	-446805.3		-65838.7		0.0		-32919.4		109.5		-2956.6			
DEFORMAZIONI															
Caso	Ver	massimi		Eacc		ξ		Ecls		Vrd/Tz		Vrd/Ty			
3- 2	si	Acc		-0.44		0.90		-0.48		62.30		21.46			
6- 5	si	Tz		-0.38		0.69		-0.43		22.06		53.22			
6- 7	si	Cls		-0.43		0.68		-0.50		25.00		25.33			



DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 5	si	AccCls	-0.15	1.00	-0.16	86.98	60.39
6- 7	si	Ty	-0.13	0.98	-0.14	55.06	43.56
7-10	si	Tz	-0.08	0.83	-0.09	44.83	51.17

PROGR. 115.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 7	-30233.9	-39732.9	0.0	-15117.0	551.3	995.4
7- 5	-56493.8	-35898.9	0.0	-17949.5	-113.2	-289.2
7-10	39393.1	-15531.1	0.0	-7733.5	677.1	847.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 7	si	Ty	-0.10	1.00	-0.10	55.06	43.56
7- 5	si	AccCls	-0.12	1.00	-0.13	268.27	149.92
7-10	si	Tz	-0.06	1.00	-0.06	44.83	51.17

PROGR. 115.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-38485.7	-38485.7	0.0	-19242.9	-439.9	-1993.8
7- 5	-51385.0	-44407.6	0.0	-13025.2	-1069.6	-2563.9
7- 7	-38951.0	-26153.8	0.0	-12374.1	-859.4	-2939.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.12	1.00	-0.12	69.01	21.75
7- 5	si	Tz	-0.10	1.00	-0.11	28.38	16.91
7- 7	si	Ty	-0.08	1.00	-0.09	35.33	14.75

PROGR. 230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
7- 5	-345173.4	79530.9	0.0	-12594.0	-1069.6	-2563.9
7- 7	-376047.0	73518.9	0.0	-11942.9	-859.4	-2939.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
7- 5	si	Tz	0.40	0.50	-0.39	28.38	16.91
7- 7	si	AccCls	0.47	0.47	-0.42	35.33	14.75

PROGR. 230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	31	L	271.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-12	215873.8	155339.3	0.0	-34979.9	864.6	-1272.8
7- 5	-617444.5	-58995.6	0.0	-13351.8	-203.9	3824.3
7-12	651662.9	70107.1	0.0	-35053.6	418.6	-3508.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-12	si	Tz	-0.34	0.88	-0.37	35.11	34.07
7- 5	si	AccCls	0.88	0.42	-0.63	148.86	11.34
7-12	si	Cls	-0.58	0.60	-0.66	72.53	12.36

PROGR. 501.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	31	L	271.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-12	-129463.5	-79441.9	0.0	-33963.6	864.6	-1272.8
7- 5	419217.5	-24671.1	0.0	-12335.6	-203.9	3824.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-12	si	Tz	-0.24	1.00	-0.26	35.11	34.07
7- 5	si	AccCls	0.48	0.45	-0.40	148.86	11.34

PROGR. 501.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	9	L	79.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 5	131158.4	-132166.4	0.0	-14544.4	-5847.1	-1050.5
7- 5	259306.2	-144926.8	0.0	-14586.0	-3948.2	-598.0
7-10	-114714.9	53128.1	0.0	-26564.1	-1443.4	-1295.6

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
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6-5	si	Tz	-0.22	0.67	-0.25	5.19	41.28	
7-5	si	AccCls	-0.32	0.56	-0.38	7.69	72.51	
7-10	si	Ty	-0.19	1.00	-0.20	21.03	33.47	
							PROGR. 580.	
ARMATURE Long. tot.		N.	10	A 20.1	Trasv. Y	N.	18	A 9.0
					Trasv. Z	N.	10	A 5.0
SNELLEZZA		roz 14.	roy 9.	Lamb 9	L 79.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
6-2	87450.9	317468.5	0.0	-13540.9	-5732.3	-997.0		
6-5	48871.6	335888.8	0.0	-14248.2	-5847.1	-1050.5		
7-10	-216857.3	114733.6	0.0	-26267.8	-1443.4	-1295.6		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty	
6-2	si	AccCls	0.45	0.49	-0.44	4.68	39.94	
6-5	si	Tz	0.43	0.49	-0.42	4.59	37.91	
7-10	si	Ty	-0.28	0.82	-0.31	18.58	30.73	
							PROGR. 580.	
ARMATURE Long. tot.		N.	10	A 20.1	Trasv. Y	N.	18	A 9.0
					Trasv. Z	N.	10	A 5.0
SNELLEZZA		roz 14.	roy 9.	Lamb 31	L 271.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
6-10	-33908.6	87141.6	0.0	-16954.3	465.2	159.2		
7-5	-444294.2	53538.1	0.0	-5860.5	354.4	2872.9		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty	
6-10	si	Tz	-0.13	1.00	-0.15	57.65	250.18	
7-5	si	AccCls Ty	0.75	0.38	-0.46	75.68	13.86	
							PROGR. 851.	
ARMATURE Long. tot.		N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
					Trasv. Z	N.	12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 31	L 271.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
6-10	31876.1	-38977.4	0.0	-15938.0	465.2	159.2		
7-5	334259.8	-42543.7	0.0	-4844.2	354.4	2872.9		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty	
6-10	si	Tz	-0.10	1.00	-0.11	65.26	272.42	
7-5	si	AccCls Ty	0.55	0.39	-0.35	85.67	15.09	
							PROGR. 851.	
ARMATURE Long. tot.		N.	10	A 20.1	Trasv. Y	N.	20	A 10.1
					Trasv. Z	N.	12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 9	L 79.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
3-1	138856.3	-94180.4	0.0	-18124.0	-1817.7	-2906.1		
6-2	148415.8	-195656.5	0.0	-8005.0	-5406.6	-1029.8		
7-5	170044.7	-200974.6	0.0	-7562.8	-4056.6	-2306.7		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty	
3-1	si	Ty	-0.19	0.80	-0.22	16.70	14.92	
6-2	si	Tz	0.38	0.48	-0.35	5.62	42.11	
7-5	si	AccCls	0.43	0.47	-0.38	7.48	18.80	
							PROGR. 930.	
ARMATURE Long. tot.		N.	10	A 20.1	Trasv. Y	N.	18	A 9.0
					Trasv. Z	N.	10	A 5.0
SNELLEZZA		roz 14.	roy 9.	Lamb 9	L 79.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
3-1	-95633.0	49419.0	0.0	-17738.9	-1817.7	-3030.4		
6-2	66130.4	235074.1	0.0	-7708.8	-5406.6	-1029.8		
6-5	64942.5	245642.9	0.0	-8246.5	-5374.6	-824.4		
6-12	-151621.2	-199511.0	0.0	-15874.9	3620.1	-2242.4		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty	
3-1	si	Ty	-0.14	1.00	-0.15	14.75	13.14	
6-2	si	Tz	0.38	0.46	-0.32	4.96	38.67	
6-5	si	Acc	0.39	0.46	-0.33	4.99	48.31	
6-12	si	Cls	-0.29	0.60	-0.35	7.41	17.76	
							PROGR. 930.	
ARMATURE Long. tot.		N.	10	A 20.1	Trasv. Y	N.	18	A 9.0
					Trasv. Z	N.	10	A 5.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
6-5	-183989.5	-89064.4	0.0	-4366.8	-726.1	869.1		
6-15	210660.8	99291.7	0.0	-8884.9	660.3	-1503.9		
7-5	-230398.6	-32172.1	0.0	-3074.1	-335.6	1338.1		
7-12	232527.2	50525.6	0.0	-9784.1	308.6	-1791.0		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty	

6-5	si	Tz	0.34	0.44	-0.27	36.93	45.82
6-15	si	Cls	0.28	0.51	-0.29	40.62	26.48
7-5	si	Acc	0.39	0.38	-0.24	79.92	29.76
7-12	si	Ty	0.23	0.52	-0.25	86.90	22.23

PROGR. 1280.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-5	120229.9	167434.8	0.0	-3054.3	-726.1	869.1
6-15	-315726.6	-134157.0	0.0	-7572.4	660.3	-1503.9
7-12	-394403.4	-65327.6	0.0	-8471.6	308.6	-1791.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-5	si	Tz	0.41	0.42	-0.30	41.81	49.89
6-15	si	Cls	0.56	0.45	-0.45	45.98	28.83
7-12	si	Acc Ty	0.59	0.42	-0.43	98.37	24.21

PILASTRATA : N. 116 P010

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
583	0.	138.	513	573
623	138.	350.	573	613
708	350.	700.	613	677

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	700.	700.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

PROGR. 0.

SNELLEZZA	roz	14.	roy	9.	Lamb	16	L	138.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-2	229695.2	-121344.4	0.0	-23531.9	-1373.8	-2343.5
6-10	526336.9	-29799.1	0.0	-14899.5	-152.0	-4946.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-2	si	Tz	-0.28	0.75	-0.32	22.10	18.50
6-10	si	AccCls Ty	0.62	0.45	-0.50	199.71	8.77

PROGR. 138.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	16	L	138.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-1	-127884.8	43091.5	0.0	-21545.7	-1194.7	-2689.3
6-10	-159433.4	28764.1	0.0	-14382.0	-152.0	-4946.0
7-7	-238061.4	22648.6	0.0	-11324.3	-315.7	-4591.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Tz	-0.17	1.00	-0.18	25.41	16.12
6-10	si	Ty	-0.15	0.82	-0.16	199.71	8.77
7-7	si	AccCls	-0.20	0.56	-0.22	96.16	9.44

PROGR. 138.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	24	L	212.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-5	-94699.9	22561.1	0.0	-11280.6	-131.7	1646.4
7-7	-110252.0	119341.7	0.0	-12868.0	823.7	658.8
7-10	-29605.6	-85557.1	0.0	-14802.8	-1041.9	399.9

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-5	si	Ty	-0.10	0.92	-0.11	230.55	26.34
7-7	si	AccCls	-0.19	0.67	-0.22	36.86	65.82
7-10	si	Tz	-0.12	0.98	-0.14	29.14	108.43

PROGR. 350.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	24	L	212.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-5	257444.4	36229.1	0.0	-10485.6	-131.7	1646.4
6-7	223480.9	87631.0	0.0	-11480.2	-617.3	1373.9

7-10	60824.6	135539.1	0.0	-14007.8	-1041.9	399.9
DEFORMAZIONI						
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz
6- 5	si	Ty	0.24	0.52	-0.26	230.55
6- 7	si	AccCls	-0.24	0.56	-0.28	49.18
7-10	si	Tz	-0.17	0.72	-0.20	29.14

PROGR. 350.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
3- 2	60213.2	-166298.1	0.0	-9703.6	-1282.2	-409.0
6- 7	-252669.7	-103565.4	0.0	-6301.9	-683.8	1586.1
6-10	304674.4	-39922.8	0.0	-6556.0	-129.5	-1977.4

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Tz	0.19	0.55	-0.24	23.68	106.01
6- 7	si	Cls	0.43	0.45	-0.35	44.40	27.34
6-10	si	Acc Ty	0.44	0.42	-0.32	234.43	21.93

PROGR. 700.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
3- 1	-108139.8	117265.6	0.0	-7599.5	-1045.7	-517.2
6- 7	302507.8	135766.7	0.0	-4989.4	-683.8	1586.1
6-10	-387462.8	10487.1	0.0	-5243.5	-129.5	-1977.4

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Tz	0.19	0.54	-0.22	29.03	83.83
6- 7	si	AccCls	0.61	0.42	-0.44	44.40	27.34
6-10	si	Ty	0.60	0.37	-0.35	234.43	21.93

PILASTRATA : N. 117 P011 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
194	0.	115.	35	190
236	115.	230.	190	335
456	230.	580.	335	514
589	580.	930.	514	614
709	930.	1280.	614	678

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

PROGR. 0.

SNELLEZZA	roz	14.	roy	9.	Lamb	13 L	115.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
3- 2	179997.8	42561.2	0.0	-20595.1	529.8	-1455.8
6-10	225245.4	37721.0	0.0	-18469.9	434.0	-1567.7
7- 7	232016.6	34253.6	0.0	-17126.8	345.1	-1791.9

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Tz	-0.19	0.90	-0.21	57.30	29.79
6-10	si	Acc	-0.21	0.77	-0.23	69.95	27.66
7- 7	si	Cls Ty	-0.21	0.73	-0.23	87.96	24.20

PROGR. 115.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13 L	115.	om	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
3- 1	41411.7	-41411.7	0.0	-20705.8	525.1	-1703.1
3- 2	40068.9	-40068.9	0.0	-20034.5	529.8	-1455.8
7- 7	33391.1	-33391.1	0.0	-16695.5	345.1	-1791.9

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.13	1.00	-0.13	57.82	25.46
3- 2	si	Tz	-0.12	1.00	-0.13	57.30	29.79
7- 7	si	Ty	-0.10	1.00	-0.11	87.96	24.20

PROGR. 115.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	39851.8	-39851.8	0.0	-19925.9	-1006.0	-655.0	
6- 5	-20804.2	-20222.0	0.0	-10111.0	-643.4	-1540.7	
7- 6	24315.0	-24315.0	0.0	-12157.5	-1114.9	-849.7	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty		
3- 1 si  AccCls	-0.12	1.00	-0.13	30.18	66.20		
6- 5 si  Ty	-0.06	1.00	-0.06	47.18	28.14		
7- 6 si  Tz	-0.07	1.00	-0.08	27.23	51.03		
				PROGR.	230.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6- 5	-197741.4	62013.1	0.0	-9679.7	-643.4	-1540.7	
7- 6	-96654.8	111155.1	0.0	-11726.3	-1114.9	-849.7	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty		
6- 5 si  AccCls	-0.20	0.55	-0.23	47.18	28.14		
7- 6 si  Tz	-0.17	0.67	-0.20	27.23	51.03		
				PROGR.	230.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-12	507906.8	-81576.5	0.0	-26639.9	-383.6	-2862.4	
7- 9	67587.8	-248859.6	0.0	-33793.9	-1301.0	-407.1	
7-15	321977.7	-242103.1	0.0	-31036.5	-1259.4	-1893.5	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty		
6-12 si  Ty	-0.47	0.59	-0.53	79.15	15.15		
7- 9 si  Tz	-0.32	0.88	-0.37	23.34	106.51		
7-15 si  AccCls	-0.47	0.67	-0.54	24.11	22.90		
				PROGR.	580.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-12	-494177.7	52675.2	0.0	-25327.4	-383.6	-2862.4	
7- 9	-104349.7	206499.7	0.0	-32481.4	-1301.0	-407.1	
7-15	-341577.5	198676.6	0.0	-29724.0	-1259.4	-1893.5	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty		
6-12 si  Ty	-0.43	0.59	-0.49	79.15	15.15		
7- 9 si  Tz	-0.31	0.89	-0.34	23.34	106.51		
7-15 si  AccCls	-0.44	0.68	-0.50	24.11	22.90		
				PROGR.	580.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-10	424046.3	38565.8	0.0	-13131.6	84.6	-2421.2	
7- 7	338197.8	114259.1	0.0	-12979.9	485.8	-1906.1	
7-13	55433.4	-123183.6	0.0	-18787.3	-777.3	-296.8	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty		
6-10 si  Acc	0.49	0.46	-0.42	359.00	17.91		
7- 7 si  cls	0.42	0.50	-0.43	62.50	22.75		
7-13 si  Tz	-0.17	0.89	-0.19	39.06	146.10		
				PROGR.	930.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-10	-423457.1	23638.2	0.0	-11819.1	84.6	-2421.2	
6-12	-379242.1	69036.5	0.0	-13169.6	-286.4	-2163.1	
7-13	-48195.1	148863.2	0.0	-17474.8	-777.3	-296.8	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty		
6-10 si  Acc	0.50	0.44	-0.40	359.00	17.91		
6-12 si  cls	0.44	0.49	-0.41	106.02	20.05		
7-13 si  Tz	-0.19	0.80	-0.21	39.06	146.10		
				PROGR.	930.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
3- 2	336648.9	-216170.1	0.0	-10369.1	-1484.9	-2019.4
6-10	501505.9	-60780.9	0.0	-5495.5	-326.5	-3143.0

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
3- 2	si	C1sTz	0.64	0.47	-0.56	20.45	21.47
6-10	si	Acc Ty	0.88	0.37	-0.53	92.99	13.80

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-10	-598543.1	53469.6	0.0	-4183.0	-326.5	-3143.0
6-12	-542820.1	123120.1	0.0	-4684.2	-683.4	-2853.8
7-10	13294.9	219769.1	0.0	-6647.5	-1174.3	-28.0

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
6-10	si	Acc Ty	1.10	0.36	-0.61	92.99	13.80
6-12	si	C1s	1.06	0.38	-0.65	44.43	15.19
7-10	si	Tz	0.32	0.44	-0.25	25.85	1546.69

PILASTRATA : N. 118 P012 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
195	0.	115.	39	194
237	115.	230.	194	339
457	230.	580.	339	515
590	580.	930.	515	615
710	930.	1280.	615	679

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
3- 1	20588.4	115770.4	0.0	-10294.2	1675.9	-272.5
6- 5	-27012.8	115066.9	0.0	-6410.8	1386.4	760.9
6-12	49534.0	59631.5	0.0	-6545.0	1022.8	-1121.1

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
3- 1	si	Tz	-0.13	0.70	-0.15	18.12	159.10
6- 5	si	AccC1s	0.13	0.54	-0.15	21.90	56.99
6-12	si	AccTy	-0.09	0.69	-0.10	29.68	38.68

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
3- 1	-19467.1	-76957.7	0.0	-9733.6	1675.9	-272.5
6-12	-79390.9	-58119.6	0.0	-6113.8	1022.8	-1121.1

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
3- 1	si	Tz	-0.09	0.85	-0.11	18.12	159.10
6-12	si	AccC1s Ty	-0.11	0.61	-0.13	29.68	38.68

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
3- 1	-29889.0	-62396.9	0.0	-14944.5	-617.5	559.1
3- 2	-30694.5	-66986.5	0.0	-15347.3	-481.9	740.6
6-12	-79390.9	-47789.4	0.0	-10026.0	-356.5	4768.5

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
3- 1	si	Tz	-0.11	1.00	-0.12	49.16	77.56
3- 2	si	AccC1s	-0.11	1.00	-0.12	63.00	58.55





## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-5	296743.5	15862.0	0.0	-6420.8	-85.2	1527.4
6-12	-286324.6	100681.4	0.0	-7179.6	-531.5	-1495.0
7-15	-161938.5	185604.5	0.0	-7516.6	-971.2	-845.4

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-5	si	Ty	0.40	0.41	-0.28	356.25	28.39
6-12	si	AccCls	0.46	0.45	-0.38	57.12	29.00
7-15	si	Tz	0.39	0.48	-0.36	31.26	51.29

PILASTRATA : N. 119 P013

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
196	0.	115.	43	198
238	115.	230.	198	343
458	230.	580.	343	516
591	580.	930.	516	616
711	930.	1280.	616	680

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

## CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
						om	1.00	cz	1.00
									cy

## SNELLEZZA

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
3-1	-20627.5	159252.5	0.0	-10313.7	1959.0	-3.8	
6-12	22218.8	82936.4	0.0	-6542.7	1180.8	-804.8	
7-2	-11899.4	157940.9	0.0	-5949.7	1605.7	427.0	

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Clstz	-0.16	0.59	-0.20	15.50	11489.49
6-12	si	Ty	-0.09	0.64	-0.11	25.71	53.88
7-2	si	Acc	0.21	0.47	-0.18	18.91	101.55

PROGR. 115.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
						om	1.00	cz	1.00
									cy

## SNELLEZZA

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
3-1	-19506.2	-66028.2	0.0	-9753.1	1959.0	-3.8	
6-12	-68135.1	-53036.1	0.0	-6111.5	1180.8	-804.8	

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Tz	-0.09	0.92	-0.10	15.50	11489.49
6-12	si	AccCls	-0.10	0.65	-0.11	25.71	53.88

PROGR. 115.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
						om	1.00	cz	1.00
									cy

## SNELLEZZA

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
3-1	-28264.2	-50643.7	0.0	-14132.1	-376.6	166.5	
3-2	-29135.3	-59739.0	0.0	-14567.6	-348.4	347.7	
6-12	-68135.1	-42675.2	0.0	-9176.5	-259.6	4617.6	

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Tz	-0.10	1.00	-0.11	80.61	260.47
3-2	si	AccCls	-0.10	1.00	-0.11	87.14	124.70
6-12	si	Ty	-0.09	0.83	-0.10	116.97	9.39

PROGR. 230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
						om	1.00	cz	1.00
									cy

## SNELLEZZA

SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
3-1	27143.0	-27143.0	0.0	-13571.5	-376.6	166.5	
6-12	462898.6	-17490.6	0.0	-8745.3	-259.6	4617.6	

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Tz	-0.08	1.00	-0.09	80.61	260.47
6-12	si	AccCls	0.66	0.40	-0.43	116.97	9.39

PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-12	462365.8	-59193.7	0.0	-29596.8	-331.2	-2339.8
7-13	63302.4	-182086.5	0.0	-31651.2	-990.2	-157.2

DEFORMAZIONI

Caso	Ver	massimi	Eacc	$\xi$	Ecls	Vrd/Tz	Vrd/Ty
6-12	si	AccCls Ty	-0.41	0.67	-0.46	91.67	18.53
7-13	si	Tz	-0.26	0.98	-0.30	30.66	275.81

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-12	-356563.0	62718.9	0.0	-28284.3	-331.2	-2339.8
7-13	-60677.4	164566.0	0.0	-30338.7	-990.2	-157.2

DEFORMAZIONI

Caso	Ver	massimi	Eacc	$\xi$	Ecls	Vrd/Tz	Vrd/Ty
6-12	si	AccCls Ty	-0.33	0.75	-0.37	91.67	18.53
7-13	si	Tz	-0.25	1.00	-0.27	30.66	275.81

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6- 5	-192935.1	34376.6	0.0	-17188.3	83.3	1181.5
7-13	39859.9	-145939.1	0.0	-19930.0	-846.6	-10.3
7-15	92702.6	-139750.2	0.0	-19997.5	-809.1	-574.2

DEFORMAZIONI

Caso	Ver	massimi	Eacc	$\xi$	Ecls	Vrd/Tz	Vrd/Ty
6- 5	si	Ty	-0.18	0.81	-0.20	364.28	36.70
7-13	si	Tz	-0.19	0.88	-0.21	35.86	4225.70
7-15	si	AccCls	-0.21	0.82	-0.24	37.52	75.51

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6- 5	220596.0	-31751.6	0.0	-15875.8	83.3	1181.5
7-13	-37234.9	150401.9	0.0	-18617.5	-846.6	-10.3
7-15	-108342.2	143460.7	0.0	-18685.0	-809.1	-574.2

DEFORMAZIONI

Caso	Ver	massimi	Eacc	$\xi$	Ecls	Vrd/Tz	Vrd/Ty
6- 5	si	Ty	-0.19	0.72	-0.21	364.28	36.70
7-13	si	Tz	-0.18	0.84	-0.21	35.86	4225.70
7-15	si	AccCls	-0.22	0.76	-0.25	37.52	75.51

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
3- 2	23305.9	-122249.6	0.0	-11652.9	-991.2	-14.6
6- 5	-253056.9	-14389.1	0.0	-7194.6	-51.5	1612.7
6-12	252140.7	-79738.9	0.0	-7777.9	-483.1	-1606.4

DEFORMAZIONI

Caso	Ver	massimi	Eacc	$\xi$	Ecls	Vrd/Tz	Vrd/Ty
3- 2	si	Tz	-0.14	0.73	-0.16	30.63	2967.41
6- 5	si	Ty	0.29	0.44	-0.23	589.42	26.89
6-12	si	AccCls	0.35	0.47	-0.31	62.84	26.99

PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 |Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6- 5	311393.1	11764.1	0.0	-5882.1	-51.5	1612.7
6-12	-310105.1	91336.6	0.0	-6465.4	-483.1	-1606.4
7-13	-15451.8	188207.8	0.0	-6896.7	-978.5	-74.2

DEFORMAZIONI

Caso	Ver	massimi	Eacc	$\xi$	Ecls	Vrd/Tz	Vrd/Ty
6- 5	si	Ty	0.44	0.39	-0.29	589.42	26.89
6-12	si	AccCls	0.52	0.43	-0.39	62.84	26.99
7-13	si	Tz	0.25	0.46	-0.22	31.03	584.10

PILASTRATA : N. 120 P014

CRITERI : 1

| Asta | Progr. I. | Progr. F. | Nodo I. | Nodo F. |

197	0.	115.	47	202
239	115.	230.	202	347
459	230.	580.	347	517
592	580.	930.	517	617
712	930.	1280.	617	681

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | 0.

Trasv. Z	N. 12	A 6.0					
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-20815.6	177712.0	0.0	-10407.8	2102.9	77.7
6- 5	-25807.4	136158.7	0.0	-6578.2	1510.1	801.3
7- 4	11542.7	185289.5	0.0	-5771.4	1802.4	38.8

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Clstz	-0.17	0.56	-0.22	14.44	557.81
6- 5	si	Ty	0.16	0.51	-0.17	20.10	54.12
7- 4	si	Acc	0.27	0.44	-0.21	16.84	1116.81

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | 115.

Trasv. Z	N. 12	A 6.0					
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	19694.3	-64123.8	0.0	-9847.2	2102.9	77.7
3- 2	-20224.7	-74605.9	0.0	-10112.3	1955.2	70.0
6- 5	64850.2	-37557.6	0.0	-6146.9	1510.1	801.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Clstz	-0.08	0.94	-0.10	14.44	557.81
3- 2	si	AccClstz	-0.09	0.88	-0.11	15.53	619.31
6- 5	si	Ty	-0.08	0.71	-0.09	20.10	54.12

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | 115.

Trasv. Z	N. 12	A 6.0					
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 2	-28968.8	-55706.3	0.0	-14484.4	-193.4	234.5
6-12	-63201.7	-38940.9	0.0	-8901.5	-159.1	4471.3
7-15	-35528.3	-56175.0	0.0	-10145.7	-256.5	2681.9

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	AccClstz	-0.10	1.00	-0.11	156.97	184.95
6-12	si	Ty	-0.09	0.86	-0.10	190.80	9.70
7-15	si	Tz	-0.09	0.93	-0.10	118.34	16.17

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | 230.

Trasv. Z	N. 12	A 6.0					
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-12	451016.3	-21508.1	0.0	-8470.2	-159.1	4471.3
7-15	272939.8	-26953.3	0.0	-9714.5	-256.5	2681.9

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-12	si	AccClstz	0.65	0.40	-0.42	190.80	9.70
7-15	si	Tz	0.28	0.49	-0.26	118.34	16.17

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | 230.

Trasv. Z	N. 12	A 6.0					
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-12	449136.9	-56849.2	0.0	-28424.6	-295.6	-2318.3
7-13	63504.3	-183072.2	0.0	-31752.1	-984.1	-232.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-12	si	AccClstz	-0.40	0.66	-0.45	102.69	18.70
7-13	si	Tz	-0.27	0.98	-0.30	30.85	186.90

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-12	-362271.0	54438.4	0.0	-27112.1	-295.6	-2318.3
7-13	-60879.3	161454.0	0.0	-30439.6	-984.1	-232.0

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-12	si	Acc	Ty	-0.33	0.73	-0.36	102.69	18.70
7-13	si	Tz	-0.25	1.00	-0.27	30.85	186.90	

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-12	192845.8	-40215.4	0.0	-18015.3	-231.4	-1167.3
7-13	39941.8	-160209.8	0.0	-19970.9	-925.7	-209.1
7-15	127877.0	-149515.0	0.0	-19738.2	-863.0	-767.2

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
6-12	si	Ty	-0.19	0.82	-0.20	131.20	37.15
7-13	si	Tz	-0.20	0.84	-0.22	32.80	207.35
7-15	si	Acc	-0.24	0.75	-0.27	35.18	56.52

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-12	-215716.4	40780.9	0.0	-16702.8	-231.4	-1167.3
7-13	-37316.8	163819.8	0.0	-18658.4	-925.7	-209.1
7-15	-140731.1	152550.9	0.0	-18425.7	-863.0	-767.2

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
6-12	si	Ty	-0.20	0.74	-0.22	131.20	37.15
7-13	si	Tz	-0.19	0.80	-0.22	32.80	207.35
7-15	si	Acc	-0.25	0.71	-0.28	35.18	56.52

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-12	276373.2	-70297.2	0.0	-7467.7	-426.2	-1741.7
7-13	42214.9	-157437.7	0.0	-8167.4	-996.2	-255.3
7-15	174334.6	-154842.4	0.0	-8089.0	-975.2	-1095.6

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-12	si	Acc	Ty	0.40	0.45	-0.33	71.23	24.90
7-13	si	Tz	0.19	0.53	-0.21	30.47	169.84	
7-15	si	C	0.33	0.50	-0.33	31.13	39.58	

PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-12	-333208.4	78864.6	0.0	-6155.2	-426.2	-1741.7
7-13	-47148.3	191255.1	0.0	-6854.9	-996.2	-255.3
7-15	-209127.4	186483.2	0.0	-6776.5	-975.2	-1095.6

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-12	si	Acc	Ty	0.55	0.42	-0.39	71.23	24.90
7-13	si	Tz	0.29	0.47	-0.25	30.47	169.84	
7-15	si	C	0.48	0.46	-0.41	31.13	39.58	

PILASTRATA : N. 121 P015

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
198	0.	115.	51	206
240	115.	230.	206	351
460	230.	580.	351	518
593	580.	930.	518	618
713	930.	1280.	618	682

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	so11.
1	SLU	1
2	SLU VENTOX	2

3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

-----										PROGR.	0.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3- 1	-21013.1	181280.2	0.0	-10506.6	2158.6	79.8					
6- 5	-22218.3	151221.4	0.0	-6705.1	1630.0	754.0					
7- 2	-11461.3	198505.4	0.0	-5730.6	1910.4	446.3					

DEFORMAZIONI										
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
3- 1	si	Tz	-0.18	0.56	-0.22	14.06	543.45			
6- 5	si	Ty	0.19	0.50	-0.19	18.63	57.51			
7- 2	si	AccCls	0.29	0.43	-0.22	15.89	97.16			

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3- 1	19891.9	-66955.0	0.0	-9945.9	2158.6	79.8					
3- 2	20583.4	-77758.8	0.0	-10291.7	1995.0	55.6					
6- 5	63002.3	-36156.6	0.0	-6273.8	1630.0	754.0					

DEFORMAZIONI										
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
3- 1	si	Tz	-0.09	0.92	-0.10	14.06	543.45			
3- 2	si	AccCls	-0.10	0.87	-0.11	15.22	779.89			
6- 5	si	Ty	-0.08	0.73	-0.09	18.63	57.51			

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3- 2	29557.5	-55196.7	0.0	-14778.8	-99.9	33.3					
6- 5	63002.3	-18560.3	0.0	-8824.1	68.3	-4263.5					
7-15	-37009.7	-59305.1	0.0	-10702.3	-247.1	2697.9					

DEFORMAZIONI										
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
3- 2	si	AccCls	-0.10	1.00	-0.11	304.04	1302.75			
6- 5	si	Ty	-0.07	0.97	-0.08	444.31	10.17			
7-15	si	Tz	-0.09	0.93	-0.10	122.87	16.07			

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6- 5	-427300.7	-27080.9	0.0	-8392.9	68.3	-4263.5					
7-15	273266.9	-30777.2	0.0	-10271.0	-247.1	2697.9					

DEFORMAZIONI										
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
6- 5	si	AccCls	0.61	0.40	-0.41	444.31	10.17			
7-15	si	Tz	0.27	0.50	-0.27	122.87	16.07			

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6-12	428199.0	-59291.3	0.0	-29645.7	-271.9	-2179.4					
7- 2	-280226.7	198533.6	0.0	-24374.7	999.6	1418.3					
7- 4	-62023.1	207978.8	0.0	-24113.2	1042.7	313.2					

DEFORMAZIONI										
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			
6-12	si	Ty	-0.38	0.70	-0.43	111.66	19.90			
7- 2	si	AccCls	-0.39	0.65	-0.45	30.37	30.57			
7- 4	si	Tz	-0.26	0.80	-0.30	29.12	138.43			

-----										PROGR.	580.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6-12	-334593.8	56666.3	0.0	-28333.2	-271.9	-2179.4					
7- 4	47629.3	-157094.6	0.0	-22800.7	1042.7	313.2					
7-15	-219492.7	156634.4	0.0	-31446.3	-957.2	-1421.0					

DEFORMAZIONI										
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty			



SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 1	-20091.7	175872.9	0.0	-10045.9	1941.0	72.5			
6-12	15049.1	62208.2	0.0	-6557.6	952.4	-614.2			
7- 2	-13391.2	201694.4	0.0	-5048.1	1791.5	509.5			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
3- 1	si	Tz	0.17	0.55	-0.21	15.64	598.02		
6-12	si	Ty	-0.07	0.76	-0.08	31.88	70.60		
7- 2	si	Acccls	0.32	0.42	-0.23	16.95	85.11		
-----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 1	18970.5	-47347.8	0.0	-9485.2	1941.0	72.5			
6-12	-55617.1	-48489.6	0.0	-6126.3	952.4	-614.2			
7-15	-43317.0	-67234.0	0.0	-7579.0	769.6	-538.0			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
3- 1	si	Tz	-0.07	1.00	-0.08	15.64	598.02		
6-12	si	Ty	-0.08	0.69	-0.10	31.88	70.60		
7-15	si	Acccls	-0.09	0.72	-0.11	39.45	80.59		
-----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 2	28241.1	-50678.4	0.0	-14120.5	-572.8	-141.8			
6- 5	57590.4	-16087.3	0.0	-8043.7	-125.8	-4174.9			
7-15	-43317.0	-61005.0	0.0	-10758.8	-541.0	2847.5			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
3- 2	si	Acc Tz	-0.10	1.00	-0.11	53.00	305.87		
6- 5	si	Ty	-0.07	0.98	-0.07	241.31	10.39		
7-15	si	cls	-0.10	0.90	-0.11	56.11	15.23		
-----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 2	-27119.8	27119.8	0.0	-13559.9	-572.8	-141.8			
6- 5	-422525.4	15224.8	0.0	-7612.4	-125.8	-4174.9			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
3- 2	si	Tz	-0.08	1.00	-0.09	53.00	305.87		
6- 5	si	Acccls Ty	0.61	0.39	-0.39	241.31	10.39		
-----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 5	-446608.3	46245.7	0.0	-23122.9	115.7	2428.2			
7-13	64386.5	-235769.1	0.0	-31135.8	-1283.3	-207.4			
7-15	266787.3	-226264.0	0.0	-31553.0	-1246.2	-1241.1			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
6- 5	si	Ty	-0.38	0.59	-0.43	262.45	17.86		
7-13	si	Tz	-0.30	0.87	-0.34	23.66	209.05		
7-15	si	Acccls	-0.42	0.72	-0.48	24.36	34.94		
-----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 5	403284.9	-43620.7	0.0	-21810.4	115.7	2428.2			
7- 2	316997.9	-118154.6	0.0	-18732.3	817.2	1855.7			
7-13	-59646.6	209513.3	0.0	-29823.3	-1283.3	-207.4			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
6- 5	si	Acc Ty	-0.35	0.60	-0.39	262.45	17.86		
7- 2	si	cls	-0.34	0.60	-0.40	37.15	23.37		
7-13	si	Tz	-0.28	0.90	-0.31	23.66	209.05		
-----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									



## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-5	-283777.5	29491.0	0.0	-14745.5	43.8	1665.0
7-2	-226844.9	143631.7	0.0	-12909.7	843.3	1342.1
7-13	-73672.5	-255197.6	0.0	-19470.4	-1460.2	375.9

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-5	si	Ty	-0.24	0.59	-0.27	693.13	26.04
7-2	si	AccCls	-0.30	0.56	-0.35	36.00	32.31
7-13	si	Tz	-0.30	0.63	-0.35	20.79	115.36

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 |

SNELLEZZA	roz	14	roy	9	Lamb	40	L	350	lom	1.00	cz	1.00	cy	1.00
PROGR. 930.														

## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-5	299013.2	-26866.0	0.0	-13433.0	43.8	1665.0
7-2	243026.4	-151577.6	0.0	-11597.2	843.3	1342.1
7-13	57754.0	255906.4	0.0	-18157.9	-1460.2	375.9

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-5	si	Ty	-0.25	0.54	-0.28	693.13	26.04
7-2	si	AccCls	0.35	0.52	-0.38	36.00	32.31
7-13	si	Tz	-0.28	0.61	-0.34	20.79	115.36

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 |

SNELLEZZA	roz	14	roy	9	Lamb	40	L	350	lom	1.00	cz	1.00	cy	1.00
PROGR. 930.														

## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-5	-329544.9	-23882.4	0.0	-6116.2	-82.7	2082.1
6-8	-267974.9	-112423.9	0.0	-6801.1	-655.8	1694.5
7-15	70682.1	-234779.5	0.0	-7920.9	-1437.0	-468.1

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-5	si	Ty	0.48	0.40	-0.32	366.95	20.83
6-8	si	Cls	0.46	0.45	-0.37	46.29	25.59
7-15	si	Tz	0.38	0.46	-0.32	21.13	92.64

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 |

SNELLEZZA	roz	14	roy	9	Lamb	40	L	350	lom	1.00	cz	1.00	cy	1.00
PROGR. 1280.														

## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-4	305863.5	133882.0	0.0	-5600.1	-737.2	1595.1
6-5	399186.2	9607.3	0.0	-4803.7	-82.7	2082.1
7-15	-93143.7	268252.4	0.0	-6608.4	-1437.0	-468.1

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-4	si	Cls	0.59	0.43	-0.44	41.18	27.18
6-5	si	Acc Ty	0.64	0.36	-0.36	366.95	20.83
7-15	si	Tz	0.50	0.43	-0.38	21.13	92.64

PILASTRATA : N. 123 P017

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
200	0.	115.	58	213
242	115.	230.	213	358
462	230.	580.	358	520
595	580.	930.	520	620
715	930.	1280.	620	684

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

## CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOS	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 |

SNELLEZZA	roz	14	roy	9	Lamb	13	L	115	lom	1.00	cz	1.00	cy	1.00
PROGR. 0.														

## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
7-4	-24871.1	-6215.0	0.0	-1161.6	-123.9	654.5
7-13	11501.8	16003.2	0.0	-5750.9	222.2	-243.4
7-15	-10442.4	12904.7	0.0	-5221.2	227.4	-184.7

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
------	-----	---------	------	---	------	--------	--------



-----										PROGR.	930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6- 5	-27240.9	135877.1	0.0	-10393.7	-749.2	-369.7					
7-13	-385121.2	25010.0	0.0	-12505.0	-73.0	-2105.3					

-----										PROGR.	930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6- 5	101366.1	-140622.0	0.0	-4683.1	-842.8	-469.4					
7-13	343729.2	-10982.6	0.0	-5491.3	1.9	-2285.9					
7-15	338323.0	52763.2	0.0	-4973.5	343.5	-2211.7					

-----										PROGR.	1280.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6- 5	-62987.3	154341.4	0.0	-3370.6	-842.8	-469.4					
7-13	-456365.7	-8357.6	0.0	-4178.8	1.9	-2285.9					
7-15	-435740.4	-67471.4	0.0	-3661.0	343.5	-2211.7					

-----										PROGR.	1280.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6- 5	-62987.3	154341.4	0.0	-3370.6	-842.8	-469.4					
7-13	-456365.7	-8357.6	0.0	-4178.8	1.9	-2285.9					
7-15	-435740.4	-67471.4	0.0	-3661.0	343.5	-2211.7					

PILASTRATA : N. 124 P018

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.							
201	0.	115.	73	228							
243	115.	230.	228	374							
463	230.	580.	374	532							
596	580.	930.	532	632							
716	930.	1280.	632	693							

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

-----										PROGR.	0.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3- 2	-26875.9	-193364.0	0.0	-13437.9	-2071.7	164.4					
6- 7	15040.2	-215082.2	0.0	-7520.1	-1943.9	-212.0					
7- 5	-41376.7	-139789.2	0.0	-8307.1	-1465.8	1265.0					

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3- 2	25754.6	44878.7	0.0	-12877.3	-2071.7	164.4					
7- 5	103477.6	28783.2	0.0	-7875.9	-1465.8	1265.0					
7- 7	100407.8	42639.9	0.0	-8333.6	-1203.3	1234.9					

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00			
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3- 2	25754.6	44878.7	0.0	-12877.3	-2071.7	164.4					
7- 5	103477.6	28783.2	0.0	-7875.9	-1465.8	1265.0					
7- 7	100407.8	42639.9	0.0	-8333.6	-1203.3	1234.9					

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Tz	-0.09	1.00	-0.10	14.65	263.68
7- 5	si	Ty	-0.10	0.71	-0.11	20.71	34.28
7- 7	si	AccCls	-0.11	0.70	-0.12	25.23	35.11
-----							PROGR. 115.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 13	L 115.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	MZ	40447.8	41563.4	MT 0.0	-20223.9	1164.4
7- 5	si	TY	103477.6	25069.2	0.0	-12534.6	603.3
-----							PROGR. 230.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 13	L 115.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	MZ	-68919.6	-92338.3	MT 0.0	-19663.3	1164.4
7- 5	si	TY	-693923.2	-46118.5	0.0	-12103.3	603.3
-----							PROGR. 230.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	MZ	116053.6	226018.4	MT 0.0	-58026.8	1421.3
7- 5	si	TY	-709961.2	94740.6	0.0	-38207.0	635.4
7-12	si	AccCls	672075.3	152068.1	0.0	-32645.4	911.4
-----							PROGR. 580.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	MZ	-0.44	1.00	-0.48	21.36	1989.34
7- 5	si	TY	-0.66	0.60	-0.74	47.78	12.24
7-12	si	AccCls	-0.68	0.56	-0.78	33.31	12.97
-----							PROGR. 580.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	MZ	112641.1	-271448.1	MT 0.0	-56320.6	1421.3
7- 5	si	TY	529814.3	-127619.7	0.0	-36894.5	635.4
7- 7	si	AccCls	514559.1	-159220.7	0.0	-37739.8	828.4
-----							PROGR. 580.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	MZ	-0.45	1.00	-0.50	21.36	1989.34
7- 5	si	TY	-0.53	0.68	-0.60	47.78	12.24
7- 7	si	AccCls	-0.55	0.68	-0.62	36.65	12.64
-----							PROGR. 580.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	MZ	-97000.8	270275.9	MT 0.0	-36403.4	1536.3
7- 5	si	TY	-299843.8	124184.4	0.0	-23929.7	700.6
7- 7	si	AccCls	-276629.7	172538.4	0.0	-24459.4	970.4
-----							PROGR. 930.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	MZ	69394.2	-267420.8	MT 0.0	-34697.1	1536.3
7- 5	si	TY	320254.1	-121061.6	0.0	-22617.2	700.6
7-12	si	AccCls	-319324.8	-154102.4	0.0	-19389.2	883.2
-----							PROGR. 930.
ARMATURE Long. tot.			N. 10	A 20.1	Trasv. Y	N. 20	A 10.1
					Trasv. Z	N. 12	A 6.0
SNELLEZZA			roz 14.	roy 9.	Lamb 40	L 350.	om 1.00
SOLLECITAZIONI						cz 1.00	cy 1.00
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	MZ	-0.34	0.86	-0.39	19.76	92.95
7- 5	si	TY	-0.34	0.69	-0.38	43.33	24.48
7- 7	si	AccCls	-0.36	0.67	-0.42	31.29	26.45



DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.55	1.00	-0.59	73.62	37.17
6- 3	si	Tz	-0.32	1.00	-0.35	33.19	3763.85
7- 5	si	Ty	-0.52	0.83	-0.57	72.83	16.38

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	201425.3	156759.7	0.0	-78379.9	-412.4	1166.4
6- 3	-87611.8	161259.9	0.0	-43805.9	-914.8	11.5
7- 5	404573.6	94698.7	0.0	-47349.3	-416.9	2647.6

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.53	1.00	-0.57	73.62	37.17
6- 3	si	Tz	-0.32	1.00	-0.35	33.19	3763.85
7- 5	si	Ty	-0.45	0.91	-0.49	72.83	16.38

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-259321.1	-108090.6	0.0	-50265.1	-602.1	1389.1
6- 7	-57090.3	-219802.1	0.0	-28545.2	-1232.7	141.8
7- 5	-385727.0	-97218.4	0.0	-31129.1	-541.1	2158.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Acc	-0.39	1.00	-0.43	50.42	31.22
6- 7	si	Tz	-0.28	0.86	-0.32	24.63	305.88
7- 5	si	Cls Ty	-0.39	0.74	-0.43	56.11	20.09

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 7	54465.3	211654.9	0.0	-27232.7	-1232.7	141.8
7- 5	369720.4	92168.8	0.0	-29816.6	-541.1	2158.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 7	si	Tz	-0.27	0.86	-0.30	24.63	305.88
7- 5	si	AccCls Ty	-0.37	0.74	-0.41	56.11	20.09

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 7	-29864.3	-235184.8	0.0	-12396.5	-1462.1	128.3
7- 5	-433588.2	-97155.4	0.0	-13747.6	-592.7	2739.8

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 7	si	Tz	0.25	0.53	-0.29	20.77	337.95
7- 5	si	AccCls Ty	0.56	0.47	-0.50	51.23	15.83

PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 7	22168.0	276535.4	0.0	-11084.0	-1462.1	128.3
7- 5	525486.6	110271.0	0.0	-12435.1	-592.7	2739.8

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 7	si	Tz	0.35	0.48	-0.32	20.77	337.95
7- 5	si	AccCls Ty	0.79	0.44	-0.61	51.23	15.83

PILASTRATA : N. 126 P020 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
218	0.	230.	75	376
465	230.	580.	376	534
598	580.	930.	534	634
718	930.	1280.	634	695

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO  
N | Descrizione | Sol1.

1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAY PRINC	16
7	SLU con SISMAY PRINC	16

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	-137682.2	137682.2	0.0	-68841.1	147.5	661.9								
6-10	-129649.2	159559.4	0.0	-64824.6	1291.9	-156.2								
7-10	-53568.4	-123953.5	0.0	-17024.9	-927.4	1396.4								
DEFORMAZIONI														
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty							
3- 1	si	Acccls	-0.44	1.00	-0.47	205.87	65.51							
6-10	si	Tz	-0.43	1.00	-0.47	23.50	277.57							
7-10	si	Ty	-0.17	0.85	-0.19	32.74	31.05							

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	135439.7	-135439.7	0.0	-67719.8	147.5	661.9								
6-10	-127924.2	-137581.0	0.0	-63962.1	1291.9	-156.2								
7-10	269197.7	89339.4	0.0	-16162.4	-927.4	1396.4								
DEFORMAZIONI														
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty							
3- 1	si	Acccls	-0.43	1.00	-0.46	205.87	65.51							
6-10	si	Tz	-0.41	1.00	-0.44	23.50	277.57							
7-10	si	Ty	-0.28	0.61	-0.32	32.74	31.05							

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 7	217997.6	-141059.7	0.0	841.8	-985.1	-1777.8								
7-10	502760.0	-88295.2	0.0	-2919.3	-708.7	-3051.9								
DEFORMAZIONI														
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty							
6- 7	si	Tz	0.64	0.37	-0.38	30.82	24.39							
7-10	si	Acccls Ty	0.99	0.36	-0.57	42.84	14.21							

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 7	-405107.8	203727.6	0.0	2154.3	-985.1	-1777.8								
7-10	-565700.0	159796.0	0.0	-1606.8	-708.7	-3051.9								
DEFORMAZIONI														
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty							
6- 7	si	Tz	1.13	0.36	-0.64	30.82	24.39							
7-10	si	Acccls Ty	1.25	0.37	-0.73	42.84	14.21							

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 7	557776.5	-328887.8	0.0	-4571.7	-1888.9	-3286.9								
7-10	580499.5	-260485.8	0.0	-6627.3	-1486.3	-3402.1								
DEFORMAZIONI														
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty							
6- 7	si	AccclsTz	1.41	0.40	-0.96	16.07	13.19							
7-10	si	Ty	1.28	0.41	-0.88	20.43	12.75							

-----										PROGR.	930.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 7	-592654.9	332218.5	0.0	-3259.2	-1888.9	-3286.9								
7-10	-610257.1	259724.8	0.0	-5314.8	-1486.3	-3402.1								
DEFORMAZIONI														
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty							
6- 7	si	AccclsTz	1.52	0.40	-1.00	16.07	13.19							
7-10	si	Ty	1.37	0.40	-0.91	20.43	12.75							

----- PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-7	382740.9	-285421.3	0.0	-11118.3	-1511.2	-1544.0
7-10	468503.4	-217378.9	0.0	-10315.6	-1125.4	-2330.4

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-7	si	Tz	0.82	0.46	-0.70	20.09	28.08
7-10	si	AccCls Ty	0.89	0.44	-0.70	26.98	18.61

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-7	-158125.1	243491.2	0.0	-9805.8	-1511.2	-1544.0
7-10	-347302.1	176534.9	0.0	-9003.1	-1125.4	-2330.4

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-7	si	Tz	0.45	0.48	-0.42	20.09	28.08
7-10	si	AccCls Ty	0.64	0.45	-0.53	26.98	18.61

PILASTRATA : N. 127 P021 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
219	0.	230.	76	377
466	230.	580.	377	535
599	580.	930.	535	635
719	930.	1280.	635	696

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAY PRINC	16
7	SLU con SISMAY PRINC	16

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-2	-141656.4	-172896.8	0.0	-65967.8	-1499.0	1071.3
7-5	-329641.4	-124283.1	0.0	-60129.3	-1125.6	2232.5
7-12	350520.5	95206.6	0.0	-10287.3	622.1	-2469.7

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-2	si	Tz	-0.45	1.00	-0.49	20.25	40.48
7-5	si	Cls	-0.48	1.00	-0.52	26.97	19.42
7-12	si	Acc Ty	0.49	0.46	-0.42	48.80	17.56

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-2	130210.7	171863.0	0.0	-65105.3	-1499.0	1071.3
7-12	-217682.3	-47871.1	0.0	-9424.8	622.1	-2469.7

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-2	si	Cls	-0.44	1.00	-0.48	20.25	40.48
7-12	si	Acc Tz Ty	0.21	0.53	-0.24	48.80	17.56

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-2	-216861.0	-137932.8	0.0	-46391.3	-708.8	1255.4
6-15	200304.1	133758.5	0.0	1326.3	909.8	-1578.9
7-12	276884.2	80115.3	0.0	-5414.2	650.2	-1803.7

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-2	si	Cls	-0.37	1.00	-0.41	42.83	34.54
6-15	si	Acc Tz	0.61	0.36	-0.35	33.37	27.46
7-12	si	Ty	0.47	0.42	-0.34	46.69	24.04



ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-15	-352345.9	-184677.3	0.0	2638.8	909.8	-1578.9
7-12	-354534.9	-147475.2	0.0	-4101.7	650.2	-1803.7

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-15	si	Acc	Tz	1.02	0.36	-0.57	33.37	27.46
7-12	si	Cls	Ty	0.75	0.40	-0.51	46.69	24.04

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-15	412236.6	317028.8	0.0	-12168.3	1901.9	-1922.6
7-12	455220.1	256477.2	0.0	-12759.2	1542.5	-2279.0

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-15	si	Acc	Tz	0.90	0.46	-0.77	15.96	22.55
7-12	si	Cls	Ty	0.85	0.46	-0.73	19.68	19.03

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-15	-260718.2	-348628.8	0.0	-10855.8	1901.9	-1922.6
7-12	-342565.7	-283421.9	0.0	-11446.7	1542.5	-2279.0

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-15	si	Acc	Tz	0.77	0.46	-0.65	15.96	22.55
7-12	si	Cls	Ty	0.74	0.47	-0.65	19.68	19.03

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-15	116374.3	307265.8	0.0	-9913.8	1580.8	-644.9
7-12	227504.1	240316.4	0.0	-9636.5	1183.1	-1330.0

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-15	si	Acc	Tz	0.53	0.46	-0.45	19.21	67.24
7-12	si	Cls	Ty	0.53	0.47	-0.48	25.66	32.60

PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI  
Caso	MZ	MY	MT	N	TZ	TY
6-15	-109367.3	-246008.4	0.0	-8601.3	1580.8	-644.9
7-12	-238120.8	-173757.3	0.0	-8324.0	1183.1	-1330.0

DEFORMAZIONI  
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-15	si	Acc	Tz	0.43	0.47	-0.37	19.21	67.24
7-12	si	Cls	Ty	0.46	0.47	-0.42	25.66	32.60

PILASTRATA : N. 128 P022

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
220	0.	230.	77	378
467	230.	580.	378	536
600	580.	930.	536	636
720	930.	1280.	636	697

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

PROGR. 0.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY		
3-1	-201780.0	201780.0	0.0	-100890.0	2112.2	660.3		
6-15	-109706.8	312027.2	0.0	-54853.4	2707.3	733.8		
7-11	-110165.9	208416.1	0.0	-55083.0	1948.7	1384.1		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-1	si	AccCls	-0.68	1.00	-0.73	14.37	65.67	
6-15	si	Tz	-0.47	0.98	-0.53	11.21	59.09	
7-11	si	Ty	-0.41	1.00	-0.45	15.58	31.33	
-----							PROGR. 230.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
3-2	197873.9	-304913.7	0.0	-98936.9	2220.0	1061.9		
6-15	107981.8	-310651.2	0.0	-53990.9	2707.3	733.8		
7-11	229785.8	-239777.2	0.0	-54220.5	1948.7	1384.1		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-2	si	AccCls	-0.74	1.00	-0.80	13.68	40.83	
6-15	si	Tz	-0.47	0.98	-0.52	11.21	59.09	
7-11	si	Ty	-0.48	0.95	-0.53	15.58	31.33	
-----							PROGR. 230.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
3-1	-150744.7	265982.3	0.0	-74255.4	1526.7	717.0		
6-15	81349.5	277493.5	0.0	-40674.7	1587.5	-406.1		
7-8	-429876.9	168333.8	0.0	-44137.4	963.8	2106.0		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-1	si	AccCls	-0.56	1.00	-0.61	19.89	60.47	
6-15	si	Tz	-0.38	0.91	-0.42	19.12	106.78	
7-8	si	Ty	-0.51	0.79	-0.56	31.50	20.59	
-----							PROGR. 580.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
3-1	145098.2	-268346.9	0.0	-72549.1	1526.7	717.0		
3-2	-143800.2	-273898.9	0.0	-71900.1	1557.1	-108.8		
6-15	-78724.5	-278126.6	0.0	-39362.2	1587.5	-406.1		
7-8	307250.7	-168968.6	0.0	-42824.9	963.8	2106.0		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-1	si	Acc	-0.55	1.00	-0.60	19.89	60.47	
3-2	si	Cls	-0.55	1.00	-0.60	19.50	398.46	
6-15	si	Tz	-0.37	0.90	-0.42	19.12	106.78	
7-8	si	Ty	-0.43	0.87	-0.47	31.50	20.59	
-----							PROGR. 580.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
3-2	-93449.1	276006.3	0.0	-46724.5	1569.3	201.3		
6-15	52413.7	320348.7	0.0	-26206.9	1805.0	-20.9		
7-4	-152025.3	183218.2	0.0	-28442.8	1039.2	1011.6		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-2	si	AccCls	-0.41	0.97	-0.45	19.35	215.38	
6-15	si	Tz	-0.35	0.67	-0.42	16.82	2073.14	
7-4	si	Ty	-0.30	0.82	-0.34	29.21	42.86	
-----							PROGR. 930.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
3-1	110838.3	-268893.2	0.0	-45379.0	1542.5	551.4		
6-15	49788.7	-311399.1	0.0	-24894.4	1805.0	-20.9		
7-4	202069.4	-180485.7	0.0	-27130.3	1039.2	1011.6		
DEFORMAZIONI								
Caso	Ver	massimi	εacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-1	si	AccCls	-0.40	0.95	-0.45	19.68	78.64	
6-15	si	Tz	-0.34	0.66	-0.40	16.82	2073.14	
7-4	si	Ty	-0.32	0.76	-0.37	29.21	42.86	
-----							PROGR. 930.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-10	-87114.2	322578.2	0.0	-11524.4	1960.3	516.3
6-15	42684.7	334245.5	0.0	-11225.1	2039.8	-310.4
7-5	-231520.0	83211.2	0.0	-12736.9	479.1	1444.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-10	si	AccCls	0.50	0.47	-0.44	15.49	83.99
6-15	si	Tz	0.49	0.46	-0.41	14.88	139.67
7-5	si	Ty	-0.25	0.58	-0.28	63.36	30.02

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-15	-66005.6	-379679.2	0.0	-9912.6	2039.8	-310.4
7-5	274018.2	-84471.4	0.0	-11424.4	479.1	1444.3
7-12	-240957.9	-256623.2	0.0	-10062.0	1377.9	-1208.4

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-15	si	Acc Tz	0.63	0.43	-0.48	14.88	139.67
7-5	si	Ty	0.31	0.52	-0.33	63.36	30.02
7-12	si	Cls	0.57	0.47	-0.52	22.03	35.88

PILASTRATA : N. 129 P023

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
221	0.	230.	78	379
468	230.	580.	379	537
601	580.	930.	537	637
721	930.	1280.	637	698

Sez. Rett.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-1	-227871.7	227871.7	0.0	-113935.8	-43.0	-322.3
6-13	131166.4	159713.7	0.0	-65583.2	1089.0	-829.8
7-13	-126470.5	-126470.5	0.0	-63235.2	-419.6	1132.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	AccCls	-0.79	1.00	-0.84	705.47	134.53
6-13	si	Tz	-0.44	1.00	-0.47	27.88	52.25
7-13	si	Ty	-0.40	1.00	-0.43	72.36	38.30

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-1	-225629.2	225629.2	0.0	-112814.6	-43.0	-322.3
6-13	-157659.3	-129441.4	0.0	-64720.7	1089.0	-829.8
7-13	183618.2	124745.5	0.0	-62372.7	-419.6	1132.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	AccCls	-0.78	1.00	-0.83	705.47	134.53
6-13	si	Tz	-0.43	1.00	-0.46	27.88	52.25
7-13	si	Ty	-0.43	1.00	-0.46	72.36	38.30

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-1	-167056.1	-167056.1	0.0	-83528.1	-316.4	391.0
6-7	141423.6	-143635.9	0.0	-47712.9	-793.5	-703.5
7-13	441206.8	-93261.0	0.0	-46630.5	-364.2	-2198.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-1	si	AccCls	-0.55	1.00	-0.59	95.96	110.89	
6-7	si	Tz	-0.35	1.00	-0.38	38.26	61.64	
7-13	si	Ty	-0.46	0.87	-0.51	83.37	19.73	
-----							PROGR. 580.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso		MZ	MY	MT	N	TZ	TY	
3-1		163643.6	163643.6	0.0	-81821.8	-316.4	391.0	
6-7		-104842.6	134109.0	0.0	-46400.4	-793.5	-703.5	
7-13		-328244.8	90636.0	0.0	-45318.0	-364.2	-2198.1	
DEFORMAZIONI								
Caso	Ver	massimi	Eacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-1	si	AccCls	-0.54	1.00	-0.57	95.96	110.89	
6-7	si	Tz	-0.32	1.00	-0.35	38.26	61.64	
7-13	si	Ty	-0.39	0.96	-0.43	83.37	19.73	
-----							PROGR. 580.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso		MZ	MY	MT	N	TZ	TY	
3-1		-104980.2	-104980.2	0.0	-52490.1	-230.3	68.6	
6-4		64036.3	-159900.1	0.0	-30555.1	-896.4	-408.0	
7-13		171403.7	-68042.4	0.0	-30027.8	-378.1	-1071.8	
DEFORMAZIONI								
Caso	Ver	massimi	Eacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-1	si	AccCls	-0.33	1.00	-0.35	131.84	632.25	
6-4	si	Tz	-0.25	1.00	-0.27	33.87	106.28	
7-13	si	Ty	-0.24	1.00	-0.26	80.30	40.45	
-----							PROGR. 930.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso		MZ	MY	MT	N	TZ	TY	
3-1		101567.7	101567.7	0.0	-50783.9	-230.3	68.6	
6-4		-79442.6	153843.1	0.0	-29242.6	-896.4	-408.0	
7-13		-204018.5	64293.8	0.0	-28715.3	-378.1	-1071.8	
DEFORMAZIONI								
Caso	Ver	massimi	Eacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
3-1	si	AccCls	-0.32	1.00	-0.34	131.84	632.25	
6-4	si	Tz	-0.24	0.98	-0.27	33.87	106.28	
7-13	si	Ty	-0.25	0.96	-0.27	80.30	40.45	
-----							PROGR. 930.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso		MZ	MY	MT	N	TZ	TY	
6-7		90381.8	-159076.3	0.0	-13529.6	-972.8	-581.4	
7-14		237420.3	-65366.9	0.0	-13391.4	-401.7	-1562.6	
7-15		242484.0	26824.5	0.0	-13412.3	89.4	-1590.7	
DEFORMAZIONI								
Caso	Ver	massimi	Eacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
6-7	si	Tz	-0.21	0.63	-0.25	31.21	74.58	
7-14	si	AccCls	-0.23	0.60	-0.27	75.58	27.75	
7-15	si	Ty	-0.20	0.61	-0.23	339.76	27.26	
-----							PROGR. 1280.	
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20	A 10.1
						Trasv. Z	N. 12	A 6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI								
Caso		MZ	MY	MT	N	TZ	TY	
6-7		-113051.3	181510.6	0.0	-12217.1	-972.8	-581.4	
7-13		-310673.1	75468.8	0.0	-12077.8	-400.7	-1565.1	
7-15		-314390.0	-24199.5	0.0	-12099.8	89.4	-1590.7	
DEFORMAZIONI								
Caso	Ver	massimi	Eacc	ξ	εcls	Vrd/Tz	Vrd/Ty	
6-7	si	Tz	-0.25	0.57	-0.30	31.21	74.58	
7-13	si	AccCls	0.34	0.51	-0.35	75.76	27.70	
7-15	si	Ty	0.29	0.50	-0.30	339.76	27.26	

PILASTRATA : N. 130 P024 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
222	0.	230.	79	380
469	230.	580.	380	538
602	580.	930.	538	638
722	930.	1280.	638	699

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 27 | L 230. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-214712.8	214712.8	0.0	-107356.4	180.5	668.2
6-13	-132152.8	152471.4	0.0	-62307.4	1106.0	410.1
7- 2	-235786.3	-126479.0	0.0	-63239.5	-10.6	684.1

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.73	1.00	-0.78	168.24	64.90
6-13	si	Tz	-0.42	1.00	-0.45	27.45	105.74
7- 2	si	Ty	-0.46	1.00	-0.49	2865.92	63.39

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 27 | L 230. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-212470.3	-212470.3	0.0	-106235.2	180.5	668.2
6-13	-122889.7	-122889.7	0.0	-61444.9	1106.0	410.1
7- 2	-124754.0	-124754.0	0.0	-62377.0	-10.6	684.1

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.72	1.00	-0.77	168.24	64.90
6-13	si	Tz	-0.39	1.00	-0.42	27.45	105.74
7- 2	si	Ty	-0.40	1.00	-0.42	2865.92	63.39

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-157510.1	-157510.1	0.0	-78755.0	-200.7	133.8
6- 5	-91780.7	-137532.9	0.0	-45890.4	-757.0	441.0
7-13	401066.7	-88158.7	0.0	-44079.4	-268.4	-2009.1

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.51	1.00	-0.55	151.26	324.17
6- 5	si	Tz	-0.31	1.00	-0.34	40.11	98.31
7-13	si	Ty	-0.43	0.88	-0.47	113.10	21.58

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	154097.6	154097.6	0.0	-77048.8	-200.7	133.8
6- 5	89155.7	127411.5	0.0	-44577.9	-757.0	441.0
7-13	-302465.3	85533.7	0.0	-42766.9	-268.4	-2009.1

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.50	1.00	-0.54	151.26	324.17
6- 5	si	Tz	-0.30	1.00	-0.32	40.11	98.31
7-13	si	Ty	-0.37	0.97	-0.40	113.10	21.58

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-98980.8	-98980.8	0.0	-49490.4	-100.8	170.4
6- 4	108126.3	-146609.2	0.0	-28815.6	-834.8	-630.3
7-13	244610.4	-56646.5	0.0	-28323.3	-316.5	-1435.1

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.31	1.00	-0.33	301.10	254.47
6- 4	si	Tz	-0.25	0.94	-0.28	36.37	68.80
7-13	si	Ty	-0.26	0.91	-0.28	95.92	30.21

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	95568.3	95568.3	0.0	-47784.2	-100.8	170.4
6- 4	-112516.4	145575.6	0.0	-27503.1	-834.8	-630.3
7-13	-257810.6	55697.2	0.0	-27010.8	-316.5	-1435.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.30	1.00	-0.32	301.10	254.47
6- 4	si	Tz	-0.25	0.92	-0.28	36.37	68.80
7-13	si	Ty	-0.26	0.87	-0.29	95.92	30.21

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 7	101518.2	-147475.0	0.0	-12777.4	-883.9	-668.0
7-13	260156.8	-52969.9	0.0	-12573.8	-311.5	-1738.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 7	si	Tz	-0.21	0.63	-0.25	34.35	64.91
7-13	si	AccCls Ty	-0.24	0.56	-0.28	97.47	24.95

PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 7	-130389.2	161893.4	0.0	-11464.9	-883.9	-668.0
7-13	-347712.3	56063.4	0.0	-11261.3	-311.5	-1738.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 7	si	Tz	-0.24	0.57	-0.29	34.35	64.91
7-13	si	AccCls Ty	0.41	0.47	-0.37	97.47	24.95

PILASTRATA : N. 131 P025

CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.
223	0.	230.	80	381
470	230.	580.	381	539
603	580.	930.	539	639
723	930.	1280.	639	700

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

PROGR. 0.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-214420.5	-214420.5	0.0	-107210.2	-289.8	-873.6
3- 2	213281.4	-213281.4	0.0	-106640.7	-322.2	-1245.1
6- 4	121971.3	-132212.5	0.0	-60985.6	-1086.7	-747.3

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.73	1.00	-0.78	104.76	49.64
3- 2	si	Ty	-0.73	1.00	-0.78	94.21	34.83
6- 4	si	Tz	-0.39	1.00	-0.42	27.94	58.02

PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 27|L 230.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-277382.7	212178.0	0.0	-106089.0	-289.8	-873.6
3- 2	-271715.2	211038.9	0.0	-105519.4	-322.2	-1245.1
6- 4	-120494.6	120246.3	0.0	-60123.1	-1086.7	-747.3

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.76	1.00	-0.81	104.76	49.64
3- 2	si	Ty	-0.75	1.00	-0.80	94.21	34.83
6- 4	si	Tz	-0.38	1.00	-0.41	27.94	58.02

PROGR. 230.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-2	420450.4	-156390.1	0.0	-78195.1	-756.8	-2343.2
6-5	92217.2	-192840.1	0.0	-46108.6	-1069.8	-453.8
7-13	575415.5	-98524.2	0.0	-44179.8	-554.1	-2986.7

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
3-2	si	AccCls	-0.64	1.00	-0.69	40.12	18.50
6-5	si	Tz	-0.35	1.00	-0.38	28.38	95.54
7-13	si	Ty	-0.55	0.74	-0.61	54.79	14.52

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-2	-399678.1	152977.6	0.0	-76488.8	-756.8	-2343.2
6-5	-90060.7	181585.9	0.0	-44796.1	-1069.8	-453.8
7-13	-470382.7	95392.2	0.0	-42867.3	-554.1	-2986.7

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
3-2	si	AccCls	-0.62	1.00	-0.67	40.12	18.50
6-5	si	Tz	-0.33	1.00	-0.37	28.38	95.54
7-13	si	Ty	-0.47	0.81	-0.52	54.79	14.52

PROGR. 580.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-4	291150.5	-191745.1	0.0	-28962.3	-1087.5	-1653.0
7-13	454079.2	-98791.4	0.0	-28372.4	-561.8	-2595.3

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6-4	si	AccCls	-0.40	0.70	-0.45	27.92	26.23
7-13	si	Ty	-0.44	0.64	-0.50	54.04	16.71

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-4	-287446.2	188871.8	0.0	-27649.8	-1087.5	-1653.0
7-13	-454430.1	97835.3	0.0	-27059.9	-561.8	-2595.3

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6-4	si	Tz	-0.39	0.69	-0.45	27.92	26.23
7-13	si	AccCls Ty	-0.44	0.63	-0.50	54.04	16.71

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-7	276683.3	-191958.9	0.0	-12839.4	-1146.9	-1721.7
7-13	454855.8	-95959.6	0.0	-12623.2	-564.4	-2952.3

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6-7	si	Tz	0.44	0.51	-0.46	26.47	25.19
7-13	si	AccCls Ty	0.63	0.45	-0.52	53.79	14.69

PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|  
 SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|  
 SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-7	-326012.4	209510.8	0.0	-11526.9	-1146.9	-1721.7
7-13	-578566.4	101758.3	0.0	-11310.7	-564.4	-2952.3

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6-7	si	Tz	0.58	0.48	-0.54	26.47	25.19
7-13	si	AccCls Ty	0.91	0.42	-0.65	53.79	14.69

PILASTRATA : N. 132 P026

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
224	0.	230.	81	382
471	230.	580.	382	540
604	580.	930.	540	640
724	930.	1280.	640	701

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 0.**

SNELLEZZA	roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
3- 1	222849.1	222849.1	0.0	-111424.6	633.9	-2786.4
3- 2	221752.1	221752.1	0.0	-110876.0	608.3	-3208.0
6-13	-130287.0	188410.5	0.0	-65143.5	1442.4	-1005.7

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.76	1.00	-0.82	47.89	15.56
3- 2	si	Ty	-0.76	1.00	-0.81	49.91	13.52
6-13	si	Tz	-0.45	1.00	-0.49	21.05	43.11

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 230.**

SNELLEZZA	roz 14.	roy 9.	Lamb 27	L 230.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-582194.1	-220606.6	0.0	-110303.3	633.9	-2786.4
3- 2	-580274.3	-219509.6	0.0	-109754.8	608.3	-3208.0
6-13	-313367.6	-143348.8	0.0	-64281.0	1442.4	-1005.7

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.96	1.00	-1.04	47.89	15.56
3- 2	si	Ty	-0.95	1.00	-1.03	49.91	13.52
6-13	si	Tz	-0.51	1.00	-0.55	21.05	43.11

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 230.**

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
3- 2	705224.5	-162335.4	0.0	-81167.7	-102.2	-3978.6
6- 5	206418.2	-138322.2	0.0	-47315.5	-758.6	-1252.6

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	AccCls	-0.83	0.89	-0.90	296.98	10.90
6- 5	si	Tz	-0.37	1.00	-0.41	40.02	34.62

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 580.**

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
3- 2	-687300.8	158922.9	0.0	-79461.5	-102.2	-3978.6
6- 5	-232219.4	127189.2	0.0	-46003.0	-758.6	-1252.6

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	AccCls	-0.80	0.89	-0.88	296.98	10.90
6- 5	si	Tz	-0.37	1.00	-0.41	40.02	34.62

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 580.**

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
3- 2	653714.5	102090.5	0.0	-51045.2	72.8	-3670.4
6-13	130179.0	161190.5	0.0	-31000.7	913.9	-648.6
7-13	659586.0	-58522.2	0.0	-29261.1	-233.8	-3732.9

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	AccCls	-0.63	0.75	-0.70	417.26	11.81
6-13	si	Tz	-0.28	0.92	-0.31	33.22	66.86
7-13	si	Ty	-0.57	0.54	-0.66	129.85	11.62

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 930.**

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
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3-2	-630910.2	-98678.0	0.0	-49339.0	72.8	-3670.4
6-13	-96740.0	-158678.7	0.0	-29688.2	913.9	-648.6
7-13	-647139.8	55897.2	0.0	-27948.6	-233.8	-3732.9

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3-2	si	Acccls	-0.61	0.75	-0.67	417.26	11.81
6-13	si	Tz	-0.26	0.95	-0.29	33.22	66.86
7-13	si	Ty	-0.56	0.54	-0.64	129.85	11.62

PROGR. 930.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-2	763710.5	42599.0	0.0	-21299.5	71.7	-4527.5
6-12	469926.8	160376.0	0.0	-13460.8	969.4	-2883.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3-2	si	Acccls Ty	0.93	0.45	-0.75	423.42	9.58
6-12	si	Tz	0.72	0.46	-0.62	31.32	15.04

PROGR. 1280.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-2	-820903.6	-39186.5	0.0	-19593.2	71.7	-4527.5
6-12	-539009.4	-178986.3	0.0	-12148.3	969.4	-2883.1
7-15	-795222.4	-67428.5	0.0	-11980.5	354.2	-4107.8

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3-2	si	Ty	1.08	0.43	-0.81	423.42	9.58
6-12	si	Tz	0.91	0.44	-0.72	31.32	15.04
7-15	si	Acccls	1.28	0.39	-0.82	85.70	10.56

PILASTRATA : N. 133 P027

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
225	0.	230.	82	383
472	230.	580.	383	541
605	580.	930.	541	641
725	930.	1280.	641	702

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

PROGR. 0.

SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-2	186283.6	186283.6	0.0	-93141.8	-5.5	-2008.8
6-13	-130476.8	162014.1	0.0	-65238.4	1112.0	-456.8

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3-2	si	Acccls Ty	-0.62	1.00	-0.66	5521.73	21.59
6-13	si	Tz	-0.44	1.00	-0.47	27.30	94.92

PROGR. 230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3-2	-404638.3	184041.1	0.0	-92020.6	-5.5	-2008.8
6-13	-232610.1	-128751.8	0.0	-64375.9	1112.0	-456.8

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3-2	si	Acccls Ty	-0.73	1.00	-0.78	5521.73	21.59
6-13	si	Tz	-0.46	1.00	-0.50	27.30	94.92

PROGR. 230.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
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3- 2	455045.2	-169662.6	0.0	-66162.6	-922.5	-2224.1
6- 5	76826.0	-211391.0	0.0	-31059.2	-1146.4	-371.3
7-13	632602.1	-102756.8	0.0	-41188.0	-506.5	-3015.5

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Acc	-0.61	0.94	-0.66	32.91	19.50
6- 5	si	Tz	-0.29	0.90	-0.33	26.48	116.79
7-13	si	Cls Ty	-0.60	0.67	-0.67	59.93	14.38

PROGR. 580.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 2	-323375.7	153200.7	0.0	-64456.4	-922.5	-2224.1
6- 5	-59493.3	189844.5	0.0	-29746.7	-1146.4	-371.3
7-13	-424172.1	79751.0	0.0	-39875.5	-506.5	-3015.5

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	AccCls	-0.52	1.00	-0.57	32.91	19.50
6- 5	si	Tz	-0.26	0.94	-0.29	26.48	116.79
7-13	si	Ty	-0.42	0.83	-0.46	59.93	14.38

PROGR. 580.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 5	-48573.3	-139943.5	0.0	-24286.7	-707.9	138.8
7-13	426493.5	-54999.7	0.0	-27499.9	-93.8	-2392.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 5	si	AccCls	-0.20	0.98	-0.22	42.89	312.35
7-13	si	Ty	-0.38	0.67	-0.42	323.68	18.13

PROGR. 930.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 5	45948.3	107848.5	0.0	-22974.2	-707.9	138.8
7-13	-411145.3	52374.7	0.0	-26187.4	-93.8	-2392.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 5	si	AccCls	-0.17	1.00	-0.19	42.89	312.35
7-13	si	Ty	-0.36	0.67	-0.41	323.68	18.13

PROGR. 930.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 2	412347.6	-103294.0	0.0	-19526.4	-687.6	-2832.4
6- 5	139880.4	-130840.4	0.0	-12803.2	-931.5	-986.2
7-13	460516.9	-29687.7	0.0	-12010.2	-324.3	-3342.8
7-15	463112.4	23625.3	0.0	-11812.6	-25.3	-3305.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Cls	-0.41	0.55	-0.47	44.15	15.31
6- 5	si	Tz	-0.22	0.62	-0.26	32.59	43.97
7-13	si	Ty	0.58	0.43	-0.44	93.62	12.97
7-15	si	Acc	0.58	0.43	-0.44	1199.88	13.12

PROGR. 1280.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 5	-199023.2	195179.3	0.0	-11490.7	-931.5	-986.2
7-13	-707583.6	83815.2	0.0	-10697.7	-324.3	-3342.8

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 5	si	Tz	0.37	0.52	-0.40	32.59	43.97
7-13	si	AccCls Ty	1.16	0.39	-0.76	93.62	12.97

PILASTRATA : N. 134 P028

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
202	0.	115.	83	229
244	115.	230.	229	385
473	230.	580.	385	544
606	580.	930.	544	643
726	930.	1280.	643	703

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soil.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 0.**

SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-27156.6	186390.4	0.0	-11433.3	2276.9	730.8
6-13	-33358.7	172904.8	0.0	-4908.1	1761.0	919.4
7- 4	-59991.9	150703.6	0.0	-5602.1	1656.2	1663.7

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
3- 1	si	clsTz	-0.19	0.57	-0.23	13.33	59.33
6-13	si	Acc	0.28	0.44	-0.22	17.24	47.16
7- 4	si	Ty	0.25	0.47	-0.22	18.33	26.06

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 115.**

SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
3- 1	56886.9	-75451.7	0.0	-10872.7	2276.9	730.8
7- 2	127187.4	-50452.8	0.0	-6469.0	1544.8	1612.1
7- 4	131333.3	-39653.4	0.0	-5170.9	1656.2	1663.7

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
3- 1	si	Tz	-0.12	0.80	-0.13	13.33	59.33
7- 2	si	cls	-0.14	0.56	-0.16	19.65	26.90
7- 4	si	Acc Ty	0.15	0.51	-0.16	18.33	26.06

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 115.**

SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
6- 4	-31756.5	-48310.8	0.0	-15878.3	-76.1	2179.4
7- 2	127187.4	-32103.4	0.0	-9504.7	-7.1	-8711.8
7- 4	131333.3	-22340.8	0.0	-7147.3	35.6	-9139.7

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6- 4	si	Tz	-0.10	1.00	-0.11	399.05	19.90
7- 2	si	Acc cls	-0.12	0.71	-0.14	4301.45	4.98
7- 4	si	Ty	-0.12	0.60	-0.13	852.23	4.74

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 230.**

SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
6- 4	233004.9	-39637.3	0.0	-15447.0	-76.1	2179.4
7- 4	-919796.9	-26184.8	0.0	-6716.1	35.6	-9139.7

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6- 4	si	Tz	-0.21	0.68	-0.23	399.05	19.90
7- 4	si	Acc cls Ty	1.63	0.35	-0.88	852.23	4.74

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 230.**

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
6- 5	-245596.0	-112435.6	0.0	-40570.4	-594.4	1191.7
7- 4	-747486.1	-73173.9	0.0	-21702.9	-405.5	3627.1

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6- 5	si	Tz	-0.35	0.97	-0.38	51.08	36.38
7- 4	si	Acc cls Ty	0.92	0.46	-0.78	74.87	11.95

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasv. Y | N. 20 | A 10.1 | **PROGR. 580.**

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI							

Caso	MZ	MY	MT	N	TZ	TY
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6- 5	171611.5	95724.2	0.0	-39257.9	-594.4	1191.7
7- 4	522394.2	69186.7	0.0	-20390.4	-405.5	3627.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 5	si	Tz	-0.29	1.00	-0.32	51.08	36.38
7- 4	si	Acccls Ty	0.52	0.51	-0.54	74.87	11.95

PROGR. 580.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 4	152552.8	-137426.2	0.0	-19646.8	-928.2	-834.8
7- 4	-390006.7	34186.6	0.0	-17093.3	85.0	2565.9
7-13	338258.4	-90259.9	0.0	-16920.4	-597.9	-1981.8

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 4	si	Tz	-0.24	0.74	-0.27	32.71	51.94
7- 4	si	Ty	-0.33	0.54	-0.37	357.06	16.90
7-13	si	Acccls	-0.34	0.56	-0.39	50.78	21.88

PROGR. 930.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 4	-139861.0	187630.1	0.0	-18334.3	-928.2	-834.8
7- 4	508682.3	-31561.6	0.0	-15780.8	85.0	2565.9

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 4	si	Tz	-0.28	0.66	-0.32	32.71	51.94
7- 4	si	Acccls Ty	0.57	0.46	-0.49	357.06	16.90

PROGR. 930.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 8	190086.0	-174333.1	0.0	-7837.9	-859.9	-1415.9
7-13	412815.6	-102614.5	0.0	-7107.7	-472.5	-2940.5

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 8	si	Tz	0.40	0.48	-0.37	35.31	30.62
7-13	si	Acccls Ty	0.71	0.41	-0.50	64.25	14.75

PROGR. 1280.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 8	-305491.3	128038.4	0.0	-6525.4	-859.9	-1415.9
7-13	-616359.4	67474.4	0.0	-5795.2	-472.5	-2940.5

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 8	si	Tz	0.56	0.44	-0.43	35.31	30.62
7-13	si	Acccls Ty	1.10	0.37	-0.65	64.25	14.75

PILASTRATA : N. 135 P029

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
203	0.	115.	94	240
245	115.	230.	240	396
474	230.	580.	396	545
607	580.	930.	545	644
727	930.	1280.	644	704

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-16776.3	-23042.3	0.0	-8388.2	-320.1	105.7

6- 2	-9280.9	-9280.9	0.0	-4640.4	-53.6	303.0								
7-12	9536.8	-23102.3	0.0	-4768.4	-459.1	-138.6								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty							
3- 1	si	AccCls	-0.05	1.00	-0.06	94.85	410.07							
6- 2	si	Ty	-0.03	1.00	-0.03	566.38	143.11							
7-12	si	Tz	-0.04	1.00	-0.04	66.13	312.78							
-----							PROGR.	115.						
ARMATURE Long. tot.			N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
							Trasv. Z	N.	12	A	6.0			
SNELLEZZA							roz 14.	roy 9.	Lamb 13	L	115.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	15655.1	15655.1	0.0	-7827.5	-320.1	105.7								
6- 2	30922.2	-8418.4	0.0	-4209.2	-53.6	303.0								
7-12	-13643.3	29705.2	0.0	-4337.1	-459.1	-138.6								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty							
3- 1	si	AccCls	-0.05	1.00	-0.05	94.85	410.07							
6- 2	si	Ty	-0.03	0.97	-0.04	566.38	143.11							
7-12	si	Tz	-0.04	0.87	-0.05	66.13	312.78							
-----							PROGR.	115.						
ARMATURE Long. tot.			N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
							Trasv. Z	N.	12	A	6.0			
SNELLEZZA							roz 14.	roy 9.	Lamb 13	L	115.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	-27237.1	-27237.1	0.0	-13618.6	-651.4	1112.0								
6-13	-25988.1	-19612.0	0.0	-9806.0	-393.3	3845.0								
7- 5	28204.8	-40664.3	0.0	-8860.3	-2066.8	522.4								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty							
3- 1	si	AccCls	-0.08	1.00	-0.09	46.61	38.99							
6-13	si	Ty	-0.06	1.00	-0.07	77.19	11.28							
7- 5	si	Tz	-0.07	1.00	-0.08	14.69	83.00							
-----							PROGR.	230.						
ARMATURE Long. tot.			N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
							Trasv. Z	N.	12	A	6.0			
SNELLEZZA							roz 14.	roy 9.	Lamb 13	L	115.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6-13	407436.9	43233.1	0.0	-9374.7	-393.3	3845.0								
7- 3	299304.4	132064.9	0.0	-8999.0	-1358.3	2836.0								
7- 5	59124.3	197048.5	0.0	-8429.1	-2066.8	522.4								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty							
6-13	si	AccCls	0.56	0.42	-0.41	77.19	11.28							
7- 3	si	Ty	0.48	0.47	-0.42	22.35	15.29							
7- 5	si	Tz	0.28	0.49	-0.27	14.69	83.00							
-----							PROGR.	230.						
ARMATURE Long. tot.			N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
							Trasv. Z	N.	12	A	6.0			
SNELLEZZA							roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6-13	521598.7	57171.9	0.0	-28585.9	282.2	-2733.5								
7- 5	53597.1	331876.2	0.0	-26798.5	1774.5	-516.5								
7- 7	262168.6	317424.6	0.0	-28210.3	1707.2	-1566.7								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty							
6-13	si	Ty	-0.46	0.61	-0.52	107.59	15.86							
7- 5	si	Tz	-0.36	0.66	-0.43	17.11	83.95							
7- 7	si	AccCls	-0.50	0.62	-0.59	17.78	27.68							
-----							PROGR.	580.						
ARMATURE Long. tot.			N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
							Trasv. Z	N.	12	A	6.0			
SNELLEZZA							roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6-13	-435163.0	-74499.7	0.0	-27273.4	282.2	-2733.5								
7- 5	-153418.3	-289207.2	0.0	-25486.0	1774.5	-516.5								
7- 7	-286257.1	-280096.8	0.0	-26897.8	1707.2	-1566.7								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty							
6-13	si	Ty	-0.40	0.65	-0.45	107.59	15.86							
7- 5	si	Tz	-0.39	0.65	-0.46	17.11	83.95							
7- 7	si	AccCls	-0.48	0.62	-0.56	17.78	27.68							
-----							PROGR.	580.						
ARMATURE Long. tot.			N.	10	A	20.1	Trasv. Y	N.	20	A	10.1			
							Trasv. Z	N.	12	A	6.0			
SNELLEZZA							roz 14.	roy 9.	Lamb 40	L	350.	om 1.00	cz 1.00	cy 1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								

3- 1	451079.9	164029.7	0.0	-26045.5	753.8	-2471.9
3- 2	447094.1	173114.7	0.0	-25730.8	1057.5	-2435.9
7- 5	258690.6	223846.2	0.0	-16861.5	1299.2	-1396.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Ty	-0.50	0.59	-0.57	40.28	17.54
3- 2	si	AccCls	-0.50	0.59	-0.58	28.71	17.80
7- 5	si	Tz	-0.40	0.55	-0.48	23.37	31.06

PROGR. 930.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	lom 1.00	cz 1.00	cy 1.00
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Caso	MZ	MY	MT	N	TZ	TY
3- 1	-414073.8	-168274.2	0.0	-24339.3	1145.1	-2471.9
7- 5	-230173.8	-230883.3	0.0	-15549.0	1299.2	-1396.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Ty	-0.47	0.59	-0.54	26.51	17.54
7- 5	si	Tz	0.39	0.54	-0.46	23.37	31.06

PROGR. 930.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	lom 1.00	cz 1.00	cy 1.00
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Caso	MZ	MY	MT	N	TZ	TY
2- 2	378889.3	169572.3	0.0	-10029.6	984.5	-2324.3
3- 2	380881.1	164192.9	0.0	-9952.5	1067.9	-2329.5
7- 5	121395.0	267102.2	0.0	-6788.6	1628.9	-722.7

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
2- 2	si	AccCls	0.66	0.46	-0.55	30.84	18.66
3- 2	si	Ty	0.65	0.45	-0.54	28.43	18.61
7- 5	si	Tz	0.53	0.44	-0.41	18.64	60.00

PROGR. 1280.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	lom 1.00	cz 1.00	cy 1.00
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Caso	MZ	MY	MT	N	TZ	TY
3- 2	-434438.0	-141086.3	0.0	-8246.2	676.6	-2329.5
7- 5	-251986.4	-303049.6	0.0	-5476.1	1628.9	-722.7
7- 7	-349078.2	-293869.6	0.0	-5828.9	1584.3	-1212.5

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Ty	0.77	0.42	-0.57	44.87	18.61
7- 5	si	Tz	0.80	0.42	-0.59	18.64	60.00
7- 7	si	AccCls	0.93	0.42	-0.69	19.16	35.76

PILASTRATA : N. 136 P030

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
204	0.	115.	98	244
246	115.	230.	244	400
475	230.	580.	400	546
608	580.	930.	546	645
728	930.	1280.	645	705

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

PROGR. 0.

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	lom 1.00	cz 1.00	cy 1.00
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Caso	MZ	MY	MT	N	TZ	TY
3- 2	28708.2	-222725.7	0.0	-14354.1	-2391.4	-28.7
6-13	35013.2	-144902.0	0.0	-9315.8	-1597.0	-937.5
7-12	17108.8	-219139.3	0.0	-8554.4	-1955.6	-79.5

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Clstz	-0.23	0.59	-0.28	12.70	1510.65
6-13	si	Ty	-0.16	0.58	-0.19	19.01	46.25
7-12	si	Acc	0.28	0.47	-0.25	15.52	545.51

PROGR. 115.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	3- 1	-27834.7	57944.8	0.0	-13917.4	-2299.5	-66.3
	3- 2	27587.0	52286.6	0.0	-13793.5	-2391.4	-28.7
	6-13	-72860.8	38643.8	0.0	-8884.5	-1597.0	-937.5
DEFORMAZIONI	Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
	3- 1 si	AccCls	-0.10	1.00	-0.11	13.20	654.27
	3- 2 si	Tz	-0.10	1.00	-0.11	12.70	1510.65
	6-13 si	Ty	-0.09	0.82	-0.10	19.01	46.25
						PROGR.	115.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	3- 1	-38577.7	38577.7	0.0	-19288.8	184.5	-57.1
	6- 4	74118.2	22758.6	0.0	-11379.3	139.7	-4941.9
DEFORMAZIONI	Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
	3- 1 si	AccCls	-0.12	1.00	-0.12	164.52	759.55
	6- 4 si	Tz	-0.09	1.00	-0.10	217.33	8.77
						PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	3- 1	-37456.4	37456.4	0.0	-18728.2	184.5	-57.1
	6- 4	-494201.0	21896.1	0.0	-10948.1	139.7	-4941.9
DEFORMAZIONI	Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
	3- 1 si	AccCls	-0.11	1.00	-0.12	164.52	759.55
	6- 4 si	Tz	0.66	0.41	-0.46	217.33	8.77
						PROGR.	230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	6- 4	-506230.9	72038.4	0.0	-36019.2	68.5	2667.9
	7- 5	-77362.4	210298.5	0.0	-38681.2	1100.6	344.2
DEFORMAZIONI	Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
	6- 4 si	AccCls	-0.46	0.71	-0.52	442.97	16.25
	7- 5 si	Tz	-0.32	1.00	-0.35	27.58	125.98
						PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	6- 4	427527.1	-69413.4	0.0	-34706.7	68.5	2667.9
	7- 5	74737.4	-174955.2	0.0	-37368.7	1100.6	344.2
DEFORMAZIONI	Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
	6- 4 si	AccCls	-0.40	0.77	-0.44	442.97	16.25
	7- 5 si	Tz	-0.29	1.00	-0.32	27.58	125.98
						PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	6- 2	-228989.3	89137.8	0.0	-23442.2	500.1	1320.3
	6- 4	-274323.6	45575.6	0.0	-22787.8	194.5	1596.4
	7- 5	-63312.2	150872.7	0.0	-24440.7	860.7	317.1
DEFORMAZIONI	Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
	6- 2 si	AccCls	-0.26	0.79	-0.29	60.71	32.84
	6- 4 si	Ty	-0.25	0.78	-0.28	156.08	27.16
	7- 5 si	Tz	-0.22	0.93	-0.24	35.27	136.74
						PROGR.	930.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI	Caso	MZ	MY	MT	N	TZ	TY
	6- 2	233101.3	-85908.7	0.0	-22129.7	500.1	1320.3
	6- 4	284415.2	-42950.6	0.0	-21475.3	194.5	1596.4





ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	40811.0	40811.0	0.0	-20405.5	-207.6	195.1	
3- 2	40506.4	40506.4	0.0	-20253.2	-246.6	64.0	
6-13	-72690.2	22733.9	0.0	-11366.9	30.0	4597.5	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty		
3- 1 si  Acccls	-0.12	1.00	-0.13	146.26	222.30		
3- 2 si  Tz	-0.12	1.00	-0.13	123.14	677.67		
6-13 si  Ty	-0.09	1.00	-0.10	1013.46	9.43		
				PROGR.	230.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 2	39385.1	41492.6	0.0	-19692.6	-246.6	64.0	
6-13	456022.3	21871.4	0.0	-10935.7	30.0	4597.5	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty		
3- 2 si  Acccls	-0.12	1.00	-0.13	123.14	677.67		
6-13 si  Ty	0.59	0.42	-0.43	1013.46	9.43		
				PROGR.	230.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-13	463107.4	75362.5	0.0	-37017.2	398.2	-2411.0	
7- 7	211969.6	238785.5	0.0	-41128.0	1219.0	-1171.9	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty		
6-13 si  Acccls	-0.44	0.76	-0.48	76.25	17.98		
7- 7 si  Ty	-0.42	0.85	-0.47	24.91	37.00		
				PROGR.	580.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	-126372.3	-126372.3	0.0	-63186.2	605.2	-406.5	
6-13	-380734.6	-71409.4	0.0	-35704.7	398.2	-2411.0	
7- 7	-198206.5	-188078.7	0.0	-39815.5	1219.0	-1171.9	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty		
3- 1 si  Acccls	-0.40	1.00	-0.43	50.17	106.67		
6-13 si  Ty	-0.37	0.83	-0.41	76.25	17.98		
7- 7 si  Tz	-0.37	0.91	-0.41	24.91	37.00		
				PROGR.	580.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	179290.0	81031.2	0.0	-40515.6	51.4	-973.0	
6-13	265795.3	47209.8	0.0	-23604.9	201.7	-1584.7	
7- 5	96667.6	117325.2	0.0	-26686.2	703.0	-513.0	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty		
3- 1 si  Acccls	-0.30	1.00	-0.32	590.42	44.57		
6-13 si  Ty	-0.25	0.81	-0.27	150.54	27.36		
7- 5 si  Tz	-0.22	0.99	-0.24	43.19	84.52		
				PROGR.	930.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	-161246.7	-77618.7	0.0	-38809.4	442.8	-973.0	
6-13	-288853.9	-44584.8	0.0	-22292.4	201.7	-1584.7	
7- 5	-82894.3	-128712.4	0.0	-25373.7	703.0	-513.0	
DEFORMAZIONI							
Caso Ver  massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty		
3- 1 si  Acccls	-0.28	1.00	-0.30	68.57	44.57		
6-13 si  Ty	-0.26	0.75	-0.29	150.54	27.36		
7- 5 si  Tz	-0.21	0.97	-0.24	43.19	84.52		
				PROGR.	930.		
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	

## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-10	234293.7	90146.3	0.0	-10205.2	583.9	-1787.6
6-13	253102.1	69059.6	0.0	-10048.8	445.3	-1922.0
6-15	290592.7	-19345.7	0.0	-9672.8	-7.1	-1670.7
7-7	47292.9	174605.7	0.0	-10923.5	1111.2	-1154.1

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-10	si	cls	0.27	0.52	-0.30	52.00	24.26
6-13	si	Ty	0.28	0.51	-0.30	68.18	22.56
6-15	si	Acc	0.30	0.47	-0.27	4269.18	25.95
7-7	si	Tz	-0.19	0.57	-0.23	27.32	37.57

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-13	-382159.0	-86890.1	0.0	-8736.3	445.3	-1922.0
7-7	-231791.4	-214346.1	0.0	-9611.0	1111.2	-1154.1

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Acc Ty	0.58	0.43	-0.45	68.18	22.56
7-7	si	clsTz	0.49	0.48	-0.46	27.32	37.57

PILASTRATA : N. 138 P032

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
730	0.	350.	649	707

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	350.	350.	30.	50.	0.	0.	0.	0.

## CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <th>A</th> <th>6.0</th>	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-13	490355.8	47138.8	0.0	-11484.0	328.2	-2188.5
7-5	116682.9	166981.5	0.0	-10473.3	1056.6	-5.2

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Acc cls Ty	0.67	0.43	-0.49	92.49	19.81
7-5	si	Tz	-0.24	0.55	-0.29	28.73	8298.09

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12	A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
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## SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-2	395761.8	-111231.4	0.0	-8095.3	579.4	1563.7
6-4	461200.2	-27682.9	0.0	-7750.3	139.4	1929.0
6-13	-275612.0	-67749.4	0.0	-10171.5	328.2	-2188.5
7-5	114822.7	-202857.1	0.0	-9160.8	1056.6	-5.2

## DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-2	si	cls	0.66	0.43	-0.49	52.40	27.73
6-4	si	Acc	0.69	0.39	-0.44	217.77	22.48
6-13	si	Ty	0.32	0.50	-0.32	92.49	19.81
7-5	si	Tz	0.33	0.50	-0.33	28.73	8298.09

PILASTRATA : N. 139 P033

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
226	0.	230.	109	411
477	230.	580.	411	551
610	580.	930.	551	650
731	930.	1280.	650	708

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

## CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2

3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

-----										PROGR.	0.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	199501.1	-199501.1	0.0	-99750.6	-876.7	-935.8								
DEFORMAZIONI														
Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty							
3- 2	si	AccclsTy	-0.67	1.00	-0.72	34.63	46.33							

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	27	L	230.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	-197258.6	197258.6	0.0	-98629.3	-876.7	-935.8								
DEFORMAZIONI														
Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty							
3- 2	si	AccclsTy	-0.66	1.00	-0.71	34.63	46.33							

-----										PROGR.	230.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	216903.5	140498.5	0.0	-70249.3	54.7	-1197.6								
6-13	506406.6	77887.0	0.0	-38943.5	217.6	-2537.6								
7- 4	374987.0	190027.5	0.0	-39649.7	1029.3	-1883.0								
7-12	139456.0	-205767.3	0.0	-41675.4	-1143.4	-767.0								
DEFORMAZIONI														
Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty							
3- 1	si	Acc	-0.49	1.00	-0.53	554.74	36.21							
6-13	si	Ty	-0.47	0.74	-0.52	139.53	17.09							
7- 4	si	cls	-0.47	0.77	-0.53	29.49	23.03							
7-12	si	Tz	-0.36	0.97	-0.40	26.55	56.53							

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	-202271.5	-137086.0	0.0	-68543.0	54.7	-1197.6								
6-13	-381826.2	-75262.0	0.0	-37631.0	217.6	-2537.6								
7-12	-128721.3	194439.3	0.0	-40362.9	-1143.4	-767.0								
DEFORMAZIONI														
Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty							
3- 1	si	Acccls	-0.47	1.00	-0.51	554.74	36.21							
6-13	si	Ty	-0.38	0.85	-0.42	139.53	17.09							
7-12	si	Tz	-0.34	0.98	-0.38	26.55	56.53							

-----										PROGR.	580.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	228685.5	-82648.0	0.0	-41324.0	46.0	-1439.0								
6-13	322071.1	45516.4	0.0	-22758.2	91.2	-2048.6								
7-12	130807.4	-161580.3	0.0	-25089.3	-904.5	-832.1								
DEFORMAZIONI														
Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty							
3- 1	si	Acccls	-0.32	1.00	-0.35	659.73	30.13							
6-13	si	Ty	-0.29	0.71	-0.32	332.92	21.17							
7-12	si	Tz	-0.26	0.82	-0.30	33.56	52.11							

-----										PROGR.	930.			
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6-13	-394980.7	-42891.4	0.0	-21445.7	91.2	-2048.6								
7- 4	-320103.0	-134898.0	0.0	-22336.1	739.9	-1655.6								
7-12	-160221.1	155010.7	0.0	-23776.8	-904.5	-832.1								
DEFORMAZIONI														
Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty							
6-13	si	Ty	-0.34	0.61	-0.38	332.92	21.17							
7- 4	si	Acccls	-0.36	0.64	-0.41	41.03	26.19							
7-12	si	Tz	-0.27	0.78	-0.31	33.56	52.11							

----- PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|  
 Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-13	404511.4	45899.3	0.0	-7419.7	364.3	-2888.4
6-15	453814.4	-31489.5	0.0	-7113.6	-72.5	-2559.0
7- 5	-36413.6	168057.5	0.0	-9089.7	1022.3	-733.8

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6-13	si	Ty	0.61	0.40	-0.42	83.34	15.01
6-15	si	Acccls	0.70	0.39	-0.44	418.83	16.94
7- 5	si	Tz	0.19	0.54	-0.22	29.70	59.09

PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-13	-557264.7	-81612.8	0.0	-6107.2	364.3	-2888.4
7- 5	-129312.4	-189777.5	0.0	-7777.2	1022.3	-733.8

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6-13	si	Acccls	1.00	0.38	-0.61	83.34	15.01
7- 5	si	Tz	0.35	0.48	-0.33	29.70	59.09

PILASTRATA : N. 140 P034

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
732	0.	350.	652	709

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	350.	350.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

PROGR. 0.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 4	-21054.3	31463.7	0.0	-10147.5	224.6	946.3
7- 2	21651.3	192423.7	0.0	-10825.6	1151.2	14.1

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6- 4	si	Ty	-0.07	1.00	-0.07	135.16	45.82
7- 2	si	Acccls	0.19	0.55	-0.23	26.37	3080.61

PROGR. 350.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 2	263635.0	-118971.3	0.0	-9119.9	635.1	800.6
6- 4	310140.8	-47249.5	0.0	-8835.0	224.6	946.3
7- 2	19026.3	-210521.7	0.0	-9513.1	1151.2	14.1

DEFORMAZIONI

Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	vrd/Tz	vrd/Ty
6- 2	si	cls	0.39	0.48	-0.37	47.81	54.16
6- 4	si	Acc	0.39	0.45	-0.33	135.16	45.82
7- 2	si	Tz	0.25	0.50	-0.25	26.37	3080.61

PILASTRATA : N. 141 P035

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
206	0.	115.	117	262
248	115.	230.	262	419
478	230.	580.	419	556
611	580.	930.	556	655
733	930.	1280.	655	710

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2

3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

-----										PROGR.	0.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3-2	28868.2	-206225.0	0.0	-14434.1	-2287.2	-272.3					
6-13	39351.7	-99253.6	0.0	-9128.9	-1308.1	-1022.4					
7-13	-16894.8	-192473.1	0.0	-8447.4	-1815.6	360.8					
DEFORMAZIONI											
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty				
3-2	si	clsTz	-0.21	0.61	-0.26	13.27	159.27				
6-13	si	Ty	-0.12	0.68	-0.14	23.21	42.41				
7-13	si	Acc	0.23	0.49	-0.23	16.72	120.17				

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3-1	-27867.9	65560.2	0.0	-13934.0	-2120.0	-336.3					
3-2	-27747.0	56798.0	0.0	-13873.5	-2287.2	-272.3					
6-13	-78264.1	51207.0	0.0	-8697.6	-1308.1	-1022.4					
DEFORMAZIONI											
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty				
3-1	si	Acc	-0.10	1.00	-0.12	14.32	128.95				
3-2	si	Tz	-0.10	1.00	-0.11	13.27	159.27				
6-13	si	cls Ty	-0.10	0.75	-0.12	23.21	42.41				

-----										PROGR.	115.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3-1	-40756.0	46298.8	0.0	-20378.0	302.9	520.1					
6-13	-78264.1	38431.0	0.0	-13128.1	208.0	4957.1					
DEFORMAZIONI											
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty				
3-1	si	Acc	-0.13	1.00	-0.14	100.22	83.37				
6-13	si	Tz Ty	-0.11	0.98	-0.12	145.94	8.75				

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3-1	44222.3	39634.7	0.0	-19817.4	302.9	520.1					
6-13	491806.9	25393.8	0.0	-12696.9	208.0	4957.1					
DEFORMAZIONI											
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty				
3-1	si	Tz	-0.12	1.00	-0.13	100.22	83.37				
6-13	si	Acc	0.61	0.43	-0.47	145.94	8.75				

-----										PROGR.	230.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6-4	-453044.5	-72578.9	0.0	-36289.5	-19.8	2299.4					
6-13	492514.7	113489.1	0.0	-40704.9	622.4	-2288.5					
7-4	341285.0	213698.3	0.0	-41212.4	1128.4	-1550.2					
DEFORMAZIONI											
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty				
6-4	si	Ty	-0.42	0.76	-0.47	1533.08	18.86				
6-13	si	Acc	-0.50	0.75	-0.55	48.78	18.95				
7-4	si	Tz	-0.48	0.78	-0.54	26.90	27.97				

-----										PROGR.	580.
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1		
					Trasv. Z	N.	12	A	6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00	cy 1.00				
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
3-1	126117.7	-126117.7	0.0	-63058.8	772.7	-19.1					
6-4	351743.4	-69953.9	0.0	-34977.0	-19.8	2299.4					
7-4	-201299.0	-181352.1	0.0	-39899.9	1128.4	-1550.2					
DEFORMAZIONI											
Caso	Ver	massimi	$\epsilon$ acc	$\xi$	$\epsilon$ cls	vrd/Tz	vrd/Ty				
3-1	si	Acc	-0.40	1.00	-0.43	39.29	2265.90				
6-4	si	Ty	-0.35	0.85	-0.39	1533.08	18.86				

7- 4 si	Tz	-0.37	0.92	-0.41	26.90	27.97	PROGR.	580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	
				Trasv. Z	N.	12 A	6.0	
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00
SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
3- 1	-133989.8	83452.4	0.0	-39809.5	373.0	718.1		
6- 4	-221346.3	45721.1	0.0	-22860.5	43.0	1350.4		
7- 4	50944.7	153298.9	0.0	-25472.4	908.0	-277.1		

DEFORMAZIONI								
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
3- 1 si	AccCls	-0.27	1.00	-0.29	81.39	60.38		
6- 4 si	Ty	-0.22	0.87	-0.24	706.79	32.11		
7- 4 si	Tz	-0.22	0.97	-0.24	33.44	156.47		

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	PROGR.	930.
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00	
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 1	117350.8	-109696.8	0.0	-38103.3	730.7	718.1			
6- 4	251320.6	-43096.1	0.0	-21548.0	43.0	1350.4			
7- 4	-68468.4	-164537.5	0.0	-24159.9	908.0	-277.1			

DEFORMAZIONI								
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
3- 1 si	AccCls	-0.27	1.00	-0.30	41.55	60.38		
6- 4 si	Ty	-0.23	0.79	-0.26	706.79	32.11		
7- 4 si	Tz	-0.23	0.88	-0.26	33.44	156.47		

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	PROGR.	930.
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00	
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 2	-235002.9	75537.1	0.0	-9600.4	498.7	1405.0			
6- 4	-272308.1	25178.9	0.0	-9383.1	170.5	1666.6			
7- 4	86543.0	147927.1	0.0	-9951.8	992.2	-778.3			

DEFORMAZIONI								
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
6- 2 si	Cls	0.27	0.51	-0.29	60.88	30.86		
6- 4 si	Acc Ty	0.28	0.48	-0.26	178.07	26.02		
7- 4 si	Tz	-0.20	0.57	-0.24	30.60	55.72		

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	PROGR.	1280.
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz	14. roy	9. Lamb	40 L	350. om	1.00 cz	1.00 cy	1.00	
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	311023.0	-34447.1	0.0	-8070.6	170.5	1666.6			
6-13	-288056.4	-121253.5	0.0	-8381.0	591.0	-1298.4			
7- 4	-185935.1	-199389.1	0.0	-8639.3	992.2	-778.3			

DEFORMAZIONI								
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
6- 4 si	Ty	0.40	0.44	-0.31	178.07	26.02		
6-13 si	AccCls	0.46	0.46	-0.40	51.37	33.40		
7- 4 si	Tz	0.42	0.48	-0.39	30.60	55.72		

PILASTRATA : N. 142 P036 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
207	0.	115.	121	266
249	115.	230.	266	423
479	230.	580.	423	557
612	580.	930.	557	656
734	930.	1280.	656	711

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO		
N	Descrizione	sol
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1	PROGR.	0.
				Trasv. Z	N.	12 A	6.0		
SNELLEZZA	roz	14. roy	9. Lamb	13 L	115. om	1.00 cz	1.00 cy	1.00	
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 2	395850.8	-28979.4	0.0	-14489.7	-38.9	-3432.9			

6- 4	324218.3	-25112.8	0.0	-8799.3	-653.4	-2605.7								
7-13	431389.1	-17004.6	0.0	-8502.3	-426.9	-3017.1								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	Vrd/Tz	Vrd/Ty							
3- 2	si	Ty	0.39	0.49	-0.38	781.28	12.63							
6- 4	si	Tz	0.40	0.44	-0.31	46.46	16.64							
7-13	si	AccCls	0.60	0.40	-0.40	71.12	14.37							
-----							PROGR.	115.						
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 2	27858.1	27858.1	0.0	-13929.1	-38.9	-3432.9								
6- 4	24565.7	50054.5	0.0	-8368.0	-653.4	-2605.7								
7- 4	-124364.5	-34754.8	0.0	-8826.0	420.8	-1582.3								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	Vrd/Tz	Vrd/Ty							
3- 2	si	Ty	-0.08	1.00	-0.09	781.28	12.63							
6- 4	si	Tz	-0.07	0.93	-0.08	46.46	16.64							
7- 4	si	AccCls	-0.12	0.68	-0.14	72.15	27.40							
-----							PROGR.	115.						
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	-42315.9	-40442.2	0.0	-20221.1	-105.7	1921.1								
6-13	-64689.7	-51235.1	0.0	-12249.0	-2399.4	962.2								
7- 4	-120405.9	-34754.8	0.0	-12929.2	-1669.4	887.5								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	Vrd/Tz	Vrd/Ty							
3- 1	si	Ty	-0.12	1.00	-0.13	287.14	22.57							
6-13	si	Tz	-0.11	0.93	-0.12	12.65	45.07							
7- 4	si	AccCls	-0.13	0.85	-0.14	18.19	48.86							
-----							PROGR.	230.						
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	178613.0	39320.9	0.0	-19660.5	-105.7	1921.1								
6- 4	136771.6	-212447.2	0.0	-11439.6	2282.6	1024.1								
6-13	45495.8	224696.1	0.0	-11817.8	-2399.4	962.2								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	Vrd/Tz	Vrd/Ty							
3- 1	si	Ty	-0.18	0.89	-0.20	287.14	22.57							
6- 4	si	AccCls	0.33	0.52	-0.36	13.30	42.34							
6-13	si	Tz	0.26	0.53	-0.29	12.65	45.07							
-----							PROGR.	230.						
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
6- 4	-92435.8	-235410.9	0.0	-35576.7	-1403.0	786.5								
7- 4	-560287.6	141567.1	0.0	-37386.9	737.6	2784.5								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	Vrd/Tz	Vrd/Ty							
6- 4	si	Tz	-0.33	0.90	-0.37	21.64	55.13							
7- 4	si	AccCls	-0.57	0.66	-0.64	41.16	15.57							
-----							PROGR.	580.						
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
3- 1	484515.1	115541.1	0.0	-57770.5	-283.8	2827.3								
6- 4	181454.2	255647.6	0.0	-34264.2	-1403.0	786.5								
DEFORMAZIONI														
Caso	Ver	massimi	$\epsilon_{acc}$	$\xi$	$\epsilon_{cls}$	Vrd/Tz	Vrd/Ty							
3- 1	si	AccCls	-0.55	0.91	-0.60	106.99	15.34							
6- 4	si	Tz	-0.39	0.78	-0.45	21.64	55.13							
-----							PROGR.	580.						
ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1					
					Trasv. Z	N.	12	A	6.0					
SNELLEZZA	roz	14.	roy	9.	Lamb	40	L	350.	om	1.00	cz	1.00	cy	1.00
SOLLECITAZIONI														
Caso	MZ	MY	MT	N	TZ	TY								
2- 2	-432666.5	-122905.3	0.0	-37016.9	-682.8	2488.2								
3- 1	-437995.6	-118150.4	0.0	-37225.9	-654.4	2447.5								
3- 2	-424998.2	-128445.2	0.0	-36762.8	-716.0	2506.4								
6- 4	-164910.6	-238690.4	0.0	-22521.5	-1357.8	897.1								

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
2- 2	si	Cls	-0.45	0.75	-0.50	44.46	17.43
3- 1	si	Acc	-0.45	0.75	-0.50	46.39	17.72
3- 2	si	Ty	-0.45	0.75	-0.50	42.40	17.30
6- 4	si	Tz	-0.35	0.65	-0.41	22.36	48.34

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	473393.3	110899.1	0.0	-35519.7	-654.4	2760.5
6- 4	148756.0	236551.4	0.0	-21209.0	-1357.8	897.1

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
3- 1	si	Acc	-0.47	0.71	-0.53	46.39	15.71
6- 4	si	Tz	-0.33	0.65	-0.39	22.36	48.34

PROGR. 930.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
2- 2	-437903.4	-124435.4	0.0	-14798.5	-705.1	2826.5
3- 1	-441494.1	-121514.6	0.0	-14892.9	-686.5	2768.6
3- 2	-431154.5	-127633.1	0.0	-14685.4	-725.6	2858.2
6- 4	-216394.9	-243580.4	0.0	-9439.0	-1464.5	1351.8

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
2- 2	si	Cls	0.57	0.48	-0.54	43.06	15.34
3- 1	si	Acc	0.57	0.48	-0.54	44.23	15.66
3- 2	si	Ty	0.57	0.49	-0.53	41.84	15.17
6- 4	si	Tz	0.53	0.47	-0.48	20.73	32.08

PROGR. 1280.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 40|L 350.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	582299.9	118745.4	0.0	-13186.6	-686.5	3081.6
6- 4	256961.1	269000.1	0.0	-8126.5	-1464.5	1351.8

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
3- 1	si	Acc	0.89	0.43	-0.68	44.23	14.07
6- 4	si	Tz	0.67	0.45	-0.55	20.73	32.08

PILASTRATA : N. 143 P037

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
208	0.	115.	125	270
250	115.	230.	270	427
480	230.	580.	427	558
613	580.	930.	558	657
735	930.	1280.	657	712

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	So11.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOX	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

PROGR. 0.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6- 4	323475.5	-25587.7	0.0	-8975.7	-660.4	-2349.7
7-13	427690.6	-17486.5	0.0	-8377.3	-468.9	-2748.2

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
6- 4	si	Tz	0.39	0.44	-0.31	45.97	18.45
7-13	si	Acc	0.60	0.40	-0.40	64.75	15.78

PROGR. 115.

ARMATURE Long. tot. |N. 10|A 20.1| Trasv. Y |N. 20|A 10.1|

Trasv. Z |N. 12|A 6.0|

SNELLEZZA |roz 14.|roy 9.|Lamb 13|L 115.|om 1.00|cz 1.00|cy 1.00|

SOLLECITAZIONI



Caso	MZ	MY	MT	N	TZ	TY	
6-4	53279.1	50375.4	0.0	-8544.5	-660.4	-2349.7	
7-4	-109609.5	-37072.5	0.0	-9702.6	462.6	-1158.5	
7-13	111648.4	36480.5	0.0	-7946.1	-468.9	-2748.2	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-4	si	Tz	-0.09	0.82	-0.10	45.97	18.45
7-4	si	Acc	-0.11	0.75	-0.13	65.63	37.43
7-13	si	Cls Ty	-0.11	0.67	-0.13	64.75	15.78
-----							PROGR. 115.
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20
						Trasv. Z	A 10.1
							6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00
SOLLECITAZIONI							cy 1.00
Caso	MZ	MY	MT	N	TZ	TY	
3-1	-43894.7	-43894.7	0.0	-21947.3	-48.8	3612.9	
6-13	-53883.6	-50967.4	0.0	-13420.2	-2358.9	1863.8	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	AccCls Ty	-0.13	1.00	-0.14	621.77	12.00
6-13	si	Tz	-0.11	1.00	-0.12	12.87	23.26
-----							PROGR. 230.
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20
						Trasv. Z	A 10.1
							6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 13	L 115.	om 1.00	cz 1.00
SOLLECITAZIONI							cy 1.00
Caso	MZ	MY	MT	N	TZ	TY	
3-1	407642.1	42773.4	0.0	-21386.7	-48.8	3612.9	
6-4	255142.7	-213819.6	0.0	-12124.8	2297.3	1828.0	
6-13	159680.0	220313.3	0.0	-12988.9	-2358.9	1863.8	
7-13	319085.0	-156664.2	0.0	-11179.5	1679.5	1913.5	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Ty	-0.35	0.59	-0.40	621.77	12.00
6-4	si	Cls	0.46	0.51	-0.47	13.22	23.72
6-13	si	Tz	0.34	0.54	-0.39	12.87	23.26
7-13	si	Acc	0.50	0.49	-0.47	18.08	22.66
-----							PROGR. 230.
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20
						Trasv. Z	A 10.1
							6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
SOLLECITAZIONI							cy 1.00
Caso	MZ	MY	MT	N	TZ	TY	
3-1	-746710.0	121879.3	0.0	-60939.7	66.0	4308.1	
6-13	-537229.0	224118.4	0.0	-38324.9	1278.7	2924.1	
7-4	-734045.5	166984.4	0.0	-39954.5	965.4	3758.7	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Ty	-0.74	0.76	-0.82	459.82	10.06
6-13	si	Tz	-0.63	0.65	-0.72	23.74	14.83
7-4	si	AccCls	-0.75	0.59	-0.85	31.45	11.54
-----							PROGR. 580.
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20
						Trasv. Z	A 10.1
							6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
SOLLECITAZIONI							cy 1.00
Caso	MZ	MY	MT	N	TZ	TY	
3-1	815910.4	-118466.8	0.0	-59233.4	66.0	4621.1	
6-13	487621.4	-223438.0	0.0	-37012.4	1278.7	2924.1	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	AccCls Ty	-0.80	0.72	-0.88	459.82	9.38
6-13	si	Tz	-0.59	0.66	-0.67	23.74	14.83
-----							PROGR. 580.
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20
						Trasv. Z	A 10.1
							6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
SOLLECITAZIONI							cy 1.00
Caso	MZ	MY	MT	N	TZ	TY	
3-1	-775240.9	75673.2	0.0	-37836.6	124.7	4362.2	
3-2	-760604.5	74534.8	0.0	-37267.4	40.6	4407.1	
6-13	-495923.3	190027.5	0.0	-24039.5	1106.8	2878.9	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	AccCls Ty	-0.70	0.57	-0.79	243.41	9.94
3-2	si	Ty	-0.68	0.57	-0.77	747.48	9.84
6-13	si	Tz	-0.56	0.55	-0.66	27.43	15.06
-----							PROGR. 930.
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N. 20
						Trasv. Z	A 10.1
							6.0
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	om 1.00	cz 1.00
SOLLECITAZIONI							cy 1.00
Caso	MZ	MY	MT	N	TZ	TY	

3- 1	806295.6	-72260.7	0.0	-36130.4	124.7	4675.2
6-13	512083.2	-197363.7	0.0	-22727.0	1106.8	2878.9

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls Ty	-0.72	0.55	-0.82	243.41	9.27
6-13	si	Tz	0.61	0.53	-0.69	27.43	15.06

PROGR. 930.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-778235.8	-29815.7	0.0	-14907.8	-8.3	4830.0
3- 2	-773127.0	-29391.3	0.0	-14695.7	-63.7	4943.7
6- 4	-395262.5	-182978.9	0.0	-9250.7	-1079.3	2456.2

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls Ty	1.12	0.40	-0.75	3679.52	8.98
3- 2	si	Tz	1.11	0.40	-0.75	476.38	8.77
6- 4	si	Tz	0.73	0.45	-0.58	28.13	17.65

PROGR. 1280.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	40 L	350.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	967030.0	26403.2	0.0	-13201.6	-8.3	5143.0
6- 4	464582.7	194779.5	0.0	-7938.2	-1079.3	2456.2

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls Ty	1.54	0.38	-0.94	3679.52	8.43
6- 4	si	Tz	0.92	0.42	-0.67	28.13	17.65

PILASTRATA : N. 144 P038

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
209	0.	115.	129	274
251	115.	230.	274	431
445	230.	410.	431	489
490	410.	580.	489	559
584	580.	760.	559	596
624	760.	930.	596	658
736	930.	1280.	658	713

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13 L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 2	307191.7	-25535.2	0.0	-12767.6	-27.8	-2466.7
6-13	75818.2	31733.6	0.0	-9362.8	928.7	-1401.2
7-13	398105.9	-16959.8	0.0	-5960.7	-494.7	-2303.5

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Ty	0.27	0.52	-0.29	1093.31	17.58
6-13	si	Tz	-0.09	0.87	-0.10	32.69	30.95
7-13	si	AccCls	0.61	0.38	-0.37	61.36	18.82

PROGR. 115.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0

SNELLEZZA	roz	14.	roy	9.	Lamb	13 L	115.	lom	1.00	cz	1.00	cy	1.00
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SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 2	24414.0	24414.0	0.0	-12207.0	-27.8	-2466.7
6-13	-85572.6	-75067.2	0.0	-8931.6	928.7	-1401.2
7- 4	-155340.4	-50921.7	0.0	-10257.1	642.2	-1312.4

DEFORMAZIONI

Caso	Ver	massimi	Eacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Ty	-0.07	1.00	-0.08	1093.31	17.58
6-13	si	Tz	-0.13	0.67	-0.15	32.69	30.95
7- 4	si	AccCls	-0.16	0.64	-0.18	47.27	33.04

PROGR. 115.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 2	34492.6	34492.6	0.0	-17246.3	72.6	3495.6	
6-13	-83466.1	-75067.2	0.0	-13259.3	-3588.2	1523.9	
7- 4	-142428.3	-50921.7	0.0	-15089.0	-2400.6	1011.7	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	$\xi$	Ecls	vrd/Tz	vrd/Ty	
3- 2 si	Ty	-0.10	1.00	-0.11	418.03	12.40	
6-13 si	Tz	-0.14	0.83	-0.15	8.46	28.45	
7- 4 si	AccCls	-0.16	0.82	-0.17	12.65	42.86	
							PROGR. 230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 2	409499.0	-33371.4	0.0	-16685.7	72.6	3495.6	
6- 4	288246.7	-289408.8	0.0	-8458.9	3073.9	2033.6	
6-13	86280.0	337572.9	0.0	-12828.0	-3588.2	1523.9	
7-13	402157.4	-176986.8	0.0	-6629.1	1886.3	2545.9	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	$\xi$	Ecls	vrd/Tz	vrd/Ty	
3- 2 si	Ty	0.36	0.52	-0.39	418.03	12.40	
6- 4 si	Cls	0.75	0.45	-0.61	9.88	21.32	
6-13 si	Tz	0.50	0.48	-0.46	8.46	28.45	
7-13 si	Acc	0.81	0.42	-0.59	16.09	17.03	
							PROGR. 230.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 21 L	180. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-13	-617535.5	343590.9	0.0	-39227.1	4047.8	5066.5	
7- 4	-893511.4	228046.4	0.0	-43842.9	2819.8	7504.4	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	$\xi$	Ecls	vrd/Tz	vrd/Ty	
6-13 si	Tz	-0.82	0.59	-0.96	7.50	8.56	
7- 4 si	AccCls Ty	-0.96	0.56	-1.11	10.77	5.78	
							PROGR. 410.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 21 L	180. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-13	294646.8	-385099.2	0.0	-38552.1	4047.8	5066.5	
7- 4	457388.3	-279796.4	0.0	-43167.9	2819.8	7504.4	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	$\xi$	Ecls	vrd/Tz	vrd/Ty	
6-13 si	Tz	-0.60	0.66	-0.70	7.50	8.56	
7- 4 si	AccCls Ty	-0.62	0.70	-0.71	10.77	5.78	
							PROGR. 410.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	86961.6	86961.6	0.0	-43480.8	-246.9	2368.5	
7- 4	-146912.7	316254.7	0.0	-34045.4	2724.3	2248.4	
7-13	160510.8	-314035.2	0.0	-19386.2	-3753.2	372.7	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	$\xi$	Ecls	vrd/Tz	vrd/Ty	
3- 1 si	Ty	-0.27	1.00	-0.29	122.98	18.31	
7- 4 si	Acc	-0.43	0.73	-0.49	11.14	19.29	
7-13 si	ClsTz	-0.41	0.56	-0.50	8.09	116.34	
							PROGR. 580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	417785.9	94032.7	0.0	-42652.0	-246.9	2520.6	
3- 2	380879.1	151252.7	0.0	-40810.6	-1071.7	1830.5	
7-13	169064.5	324186.3	0.0	-18748.7	-3753.2	372.7	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	$\xi$	Ecls	vrd/Tz	vrd/Ty	
3- 1 si	Ty	-0.43	0.85	-0.48	122.98	17.20	
3- 2 si	Acc	-0.45	0.81	-0.50	28.33	23.69	
7-13 si	ClsTz	0.44	0.54	-0.52	8.09	116.34	
							PROGR. 580.
ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1

SNELLEZZA	roz 14.	roy 9.	Lamb 21 L	180.	om 1.00 cz 1.00 cy 1.00	Trasv. Z	N. 12 A 6.0
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-15	-219109.4	100135.5	0.0	-21149.1	1595.7	1021.2	
7- 2	-628636.5	-80896.8	0.0	-25202.9	-95.2	6092.0	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-15 si	Tz	-0.26	0.75	-0.29	19.03	42.46	
7- 2 si	AccCls Ty	0.61	0.52	-0.66	318.97	7.12	
						PROGR.	760.
ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1	Trasv. Z	N. 12 A 6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 21 L	180.	om 1.00 cz 1.00 cy 1.00		
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-15	-40948.1	-170919.1	0.0	-20474.1	1595.7	1021.2	
7- 2	465738.5	-117829.5	0.0	-24527.9	-95.2	6092.0	
7- 4	438548.8	-174330.0	0.0	-25919.5	533.8	5938.1	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
6-15 si	Tz	-0.21	0.83	-0.24	19.03	42.46	
7- 2 si	AccCls Ty	-0.46	0.58	-0.53	318.97	7.12	
7- 4 si	AccCls	-0.49	0.60	-0.57	56.88	7.30	
						PROGR.	760.
ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1	Trasv. Z	N. 12 A 6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170.	om 1.00 cz 1.00 cy 1.00		
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
7- 4	-218078.4	315005.5	0.0	-17053.2	2617.5	4067.7	
7-13	173441.5	-337148.7	0.0	-15228.4	-3655.0	-1297.1	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
7- 4 si	Cls Ty	0.51	0.52	-0.56	11.60	10.66	
7-13 si	Acc Tz	0.54	0.50	-0.54	8.31	33.43	
						PROGR.	930.
ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1	Trasv. Z	N. 12 A 6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170.	om 1.00 cz 1.00 cy 1.00		
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
7- 4	473859.7	-130141.4	0.0	-16415.7	2617.5	4067.7	
7-13	-47494.0	284371.5	0.0	-14590.9	-3655.0	-1297.1	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
7- 4 si	AccCls Ty	0.60	0.49	-0.58	11.60	10.66	
7-13 si	Acc Tz	0.32	0.53	-0.36	8.31	33.43	
						PROGR.	930.
ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1	Trasv. Z	N. 12 A 6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	om 1.00 cz 1.00 cy 1.00		
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	-503229.6	-78631.0	0.0	-13829.4	-429.2	3651.8	
3- 2	-506680.3	-73656.2	0.0	-13656.1	-431.7	3809.0	
6- 4	-291909.5	-113070.9	0.0	-8489.8	-906.9	1931.5	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
3- 1 si	Cls	0.66	0.45	-0.55	70.74	11.87	
3- 2 si	Acc Ty	0.67	0.45	-0.54	70.32	11.38	
6- 4 si	Acc Tz	0.45	0.46	-0.39	33.48	22.45	
						PROGR.	1280.
ARMATURE Long. tot.	N. 10 A 20.1	Trasv. Y	N. 20 A 10.1	Trasv. Z	N. 12 A 6.0		
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350.	om 1.00 cz 1.00 cy 1.00		
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3- 1	829662.0	71581.4	0.0	-12123.1	-429.2	3964.8	
6- 4	383061.1	196002.3	0.0	-7177.3	-906.9	1931.5	
DEFORMAZIONI							
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty	
3- 1 si	AccCls Ty	1.35	0.39	-0.86	70.74	10.94	
6- 4 si	Acc Tz	0.79	0.43	-0.59	33.48	22.45	
PILASTRATA : N. 145 P039 CRITERI : 1							
Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.			
210	0.	115.	132	277			
252	115.	230.	277	434			
446	230.	410.	434	492			
491	410.	580.	492	560			
585	580.	760.	560	599			

625	760	930	599	659
737	930	1280	659	714

Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4
Rett.	0.	1280.	1280.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol1.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTYO	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 |

SNELLEZZA | roz 14. | roy 9. | Lamb 13 | L 115. | om 1.00 | cz 1.00 | cy 1.00 |

Caso	MZ	MY	MT	N	TZ	TY
3- 1	55358.9	-13552.4	0.0	-6776.2	-102.6	-607.3
3- 2	53032.7	-11922.7	0.0	-5961.4	-122.4	-649.2
6- 4	34899.8	-8951.2	0.0	-4475.6	-204.6	-493.5

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Acccls	-0.06	0.93	-0.06	295.90	71.40
3- 2	si	Ty	-0.05	0.90	-0.06	248.09	66.79
6- 4	si	Tz	-0.04	0.95	-0.04	148.37	87.86

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 |

SNELLEZZA | roz 14. | roy 9. | Lamb 13 | L 115. | om 1.00 | cz 1.00 | cy 1.00 |

Caso	MZ	MY	MT	N	TZ	TY
3- 2	-21630.0	10801.5	0.0	-5400.7	-122.4	-649.2
6- 4	-22479.0	20239.8	0.0	-4044.3	-204.6	-493.5
7-13	-36014.7	15544.1	0.0	-1552.8	-192.2	-557.1
7-15	-35279.3	6784.1	0.0	-863.2	-121.6	-543.2

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	Ty	-0.04	1.00	-0.04	248.09	66.79
6- 4	si	Tz	-0.04	0.88	-0.04	148.37	87.86
7-13	si	cls	0.04	0.52	-0.05	157.94	77.84
7-15	si	Acc	0.05	0.43	-0.04	249.67	79.82

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 |

SNELLEZZA | roz 14. | roy 9. | Lamb 13 | L 115. | om 1.00 | cz 1.00 | cy 1.00 |

Caso	MZ	MY	MT	N	TZ	TY
6- 4	-18829.1	44739.9	0.0	-7206.6	2253.0	-93.9
7- 2	32370.5	-22210.7	0.0	-11105.3	216.4	-5790.6

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 4	si	Tz	-0.06	0.93	-0.07	13.48	461.61
7- 2	si	Acccls Ty	-0.07	1.00	-0.08	140.27	7.49

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 |

SNELLEZZA | roz 14. | roy 9. | Lamb 13 | L 115. | om 1.00 | cz 1.00 | cy 1.00 |

Caso	MZ	MY	MT	N	TZ	TY
6- 4	-28166.5	-214463.3	0.0	-6775.4	2253.0	-93.9
7- 2	-633127.9	-25003.8	0.0	-10674.1	216.4	-5790.6
7- 4	-601226.5	69581.9	0.0	-9530.2	-774.9	-5522.0

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 4	si	Tz	0.32	0.45	-0.26	13.48	461.61
7- 2	si	Ty	0.94	0.39	-0.60	140.27	7.49
7- 4	si	Acccls	0.97	0.40	-0.63	39.18	7.85

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 |

SNELLEZZA | roz 14. | roy 9. | Lamb 21 | L 180. | om 1.00 | cz 1.00 | cy 1.00 |

Caso	MZ	MY	MT	N	TZ	TY
6- 2	-315093.4	-362043.5	0.0	-24546.0	-3799.4	3933.5
7- 2	-863748.5	-153204.9	0.0	-30170.4	-1843.1	6150.8

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6- 2	si	Tz	-0.58	0.56	-0.70	7.99	11.02
7- 2	si	Acccls Ty	1.02	0.49	-1.00	16.47	7.05

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 |

SNELLEZZA	roz 14.	roy 9.	Lamb 21 L	180.	om 1.00 cz	1.00 cy	1.00	N. 12 A	6.0
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 2	404616.2	331556.3	0.0	-23871.0	-3799.4	3933.5			
7- 2	269138.8	210834.1	0.0	-29495.4	-1843.1	6150.8			
DEFORMAZIONI									
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty			
6- 2 si	AccclsTy	0.63	0.54	-0.75	7.99	11.02			
7- 2 si	Tz	-0.40	0.71	-0.46	16.47	7.05			
							PROGR.	410.	
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	Trasv. Z	N. 12 A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170.	om 1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
7-13	666552.2	-168964.9	0.0	-10060.4	-1858.4	-6950.8			
7-15	517366.5	-161455.5	0.0	-9024.9	-1895.1	-5331.5			
DEFORMAZIONI									
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty			
7-13 si	AccclsTy	1.21	0.41	-0.84	16.34	6.24			
7-15 si	Tz	0.94	0.42	-0.68	16.02	8.13			
							PROGR.	580.	
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	Trasv. Z	N. 12 A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170.	om 1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
7-13	-516296.1	148782.9	0.0	-9422.9	-1858.4	-6950.8			
7-15	-390170.8	159453.3	0.0	-8387.4	-1895.1	-5331.5			
DEFORMAZIONI									
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty			
7-13 si	AccclsTy	0.91	0.42	-0.66	16.34	6.24			
7-15 si	Tz	0.71	0.44	-0.55	16.02	8.13			
							PROGR.	580.	
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	Trasv. Z	N. 12 A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 21 L	180.	om 1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	-438817.2	47935.0	0.0	-12701.7	-125.0	3706.7			
7-13	-381583.3	134347.0	0.0	-8144.1	1066.6	2769.9			
7-15	-286965.9	147657.8	0.0	-7021.0	1408.5	1889.8			
DEFORMAZIONI									
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty			
6- 4 si	Ty	0.54	0.45	-0.44	242.91	11.70			
7-13 si	AccclsTy	0.66	0.43	-0.51	28.46	15.65			
7-15 si	Tz	0.54	0.45	-0.44	21.55	22.95			
							PROGR.	760.	
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	Trasv. Z	N. 12 A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 21 L	180.	om 1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	227762.2	70609.4	0.0	-12026.7	-125.0	3706.7			
6- 5	269802.5	143233.9	0.0	-15591.0	-963.4	3439.7			
7-15	50527.9	-106114.0	0.0	-6346.0	1408.5	1889.8			
DEFORMAZIONI									
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty			
6- 4 si	Ty	-0.23	0.58	-0.27	242.91	11.70			
6- 5 si	AccclsTy	-0.33	0.57	-0.39	31.51	12.61			
7-15 si	Tz	0.13	0.55	-0.16	21.55	22.95			
							PROGR.	760.	
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	Trasv. Z	N. 12 A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170.	om 1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	348983.6	-279330.6	0.0	-8396.8	-1983.8	-2881.5			
7- 4	-464352.7	20322.8	0.0	-10161.4	147.4	5632.3			
7-13	556037.2	-225300.1	0.0	-7184.3	-1684.9	-5090.7			
DEFORMAZIONI									
Caso Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty			
6- 4 si	Tz	0.83	0.44	-0.66	15.30	15.05			
7- 4 si	Ty	0.62	0.41	-0.44	205.99	7.70			
7-13 si	AccclsTy	1.16	0.41	-0.81	18.02	8.52			
							PROGR.	930.	
ARMATURE Long. tot.	N. 10 A	20.1	Trasv. Y	N. 20 A	10.1	Trasv. Z	N. 12 A	6.0	
SNELLEZZA	roz 14.	roy 9.	Lamb 20 L	170.	om 1.00 cz	1.00 cy	1.00		
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	-140934.8	58300.7	0.0	-7759.3	-1983.8	-2881.5			

7- 4	493167.9	-23077.0	0.0	-9523.9	147.4	5632.3				
DEFORMAZIONI										
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty				
6- 4 si	Tz	-0.15	0.57	-0.18	15.30	15.05				
7- 4 si	AccCls Ty	0.70	0.40	-0.47	205.99	7.70				
-----										
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1										
Trasv. Z  N. 12 A 6.0										
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00										
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
3- 2	-264065.5	16422.2	0.0	-8211.1	-106.7	2198.6				
6- 2	-215404.8	16088.2	0.0	-5984.5	-264.3	1527.5				
DEFORMAZIONI										
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty				
3- 2 si	Cls Ty	0.29	0.46	-0.25	284.42	19.72				
6- 2 si	Tz	0.26	0.44	-0.20	114.86	28.39				
-----										
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1										
Trasv. Z  N. 12 A 6.0										
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00										
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
3- 1	503454.3	49221.0	0.0	-6651.0	-117.2	2266.7				
6- 2	317629.0	97883.6	0.0	-4672.0	-264.3	1527.5				
7- 4	502130.3	-33655.8	0.0	-4522.8	-38.4	1811.1				
DEFORMAZIONI										
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty				
3- 1 si	Cls Ty	0.83	0.38	-0.51	259.05	19.13				
6- 2 si	Tz	0.59	0.41	-0.41	114.86	28.39				
7- 4 si	Acc	0.88	0.36	-0.49	790.40	23.94				

PILAISTRATA : N. 146 P040

CRITERI : 1

Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.						
212	0.	115.	141	285						
254	115.	230.	285	443						
483	230.	580.	443	563						
616	580.	930.	563	662						
Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4	
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.	

CASI DI CARICO

N	Descrizione	sol
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

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ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1										
Trasv. Z  N. 12 A 6.0										
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00										
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
2- 1	-17449.4	-141863.9	0.0	-8724.7	-1702.5	377.1				
3- 1	-17592.5	-141699.7	0.0	-8796.3	-1706.8	527.7				
6- 2	-19320.7	-132231.0	0.0	-5282.6	-1334.5	734.6				
7- 5	-33988.8	-122720.9	0.0	-5691.8	-1285.1	1155.7				
DEFORMAZIONI										
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty				
2- 1 si	Cls	-0.14	0.57	-0.17	17.83	114.99				
3- 1 si	Tz	-0.14	0.57	-0.17	17.79	82.18				
6- 2 si	Acc	0.18	0.48	-0.16	22.75	59.02				
7- 5 si	Ty	0.16	0.50	-0.16	23.62	37.52				
-----										
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1										
Trasv. Z  N. 12 A 6.0										
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00										
SOLLECITAZIONI										
Caso	MZ	MY	MT	N	TZ	TY				
3- 1	48819.1	54576.7	0.0	-8235.6	-1706.8	527.7				
7- 5	98924.5	37361.9	0.0	-5260.6	-1285.1	1155.7				
DEFORMAZIONI										
Caso Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty				
3- 1 si	Tz	-0.09	0.80	-0.10	17.79	82.18				
7- 5 si	AccCls Ty	-0.10	0.57	-0.12	23.62	37.52				
-----										
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1										
Trasv. Z  N. 12 A 6.0										
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00										
SOLLECITAZIONI										

Caso	MZ	MY	MT	N	TZ	TY	
3-2	27311.7	49914.4	0.0	-11157.4	773.5	-1914.2	
7-5	98924.5	32424.6	0.0	-6951.5	388.4	-6679.1	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-2	si	Tz	-0.08	1.00	-0.09	39.25	22.65
7-5	si	Acccls Ty	-0.10	0.66	-0.11	78.16	6.49
-----							PROGR. 230.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 13	L 115.	lom 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3-2	-192820.2	-39042.5	0.0	-10596.7	773.5	-1914.2	
7-5	-669168.0	-13040.6	0.0	-6520.3	388.4	-6679.1	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-2	si	Tz	-0.18	0.60	-0.20	39.25	22.65
7-5	si	Acccls Ty	1.12	0.36	-0.62	78.16	6.49
-----							PROGR. 230.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	lom 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-13	-122970.5	261573.3	0.0	-19595.6	1394.9	804.5	
7-5	-689194.5	91416.3	0.0	-15985.3	549.6	3653.7	
7-7	-608886.6	175745.1	0.0	-17038.1	963.3	3252.4	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Tz	-0.34	0.61	-0.40	21.76	53.90
7-5	si	Acc Ty	0.98	0.43	-0.75	55.24	11.87
7-7	si	cls	0.91	0.46	-0.78	31.52	13.33
-----							PROGR. 580.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	lom 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-13	158615.3	-226747.7	0.0	-18283.1	1394.9	804.5	
7-5	589620.2	-101280.6	0.0	-14672.8	549.6	3653.7	
7-7	529473.3	-161751.0	0.0	-15725.6	963.3	3252.4	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Tz	-0.33	0.61	-0.39	21.76	53.90
7-5	si	Acc Ty	0.84	0.44	-0.66	55.24	11.87
7-7	si	cls	0.77	0.47	-0.68	31.52	13.33
-----							PROGR. 580.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	lom 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-13	-162997.1	216485.7	0.0	-8318.2	1357.7	1003.7	
7-5	-402580.9	108407.2	0.0	-7524.8	655.8	2715.1	
7-7	-373635.0	162588.7	0.0	-7920.1	1005.4	2501.6	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Tz	0.43	0.47	-0.39	22.36	43.20
7-5	si	Acc Ty	0.69	0.42	-0.50	46.29	15.97
7-7	si	Acccls	0.70	0.44	-0.54	30.20	17.33
-----							PROGR. 930.
ARMATURE Long. tot.		N. 10	A 20.1	Trasv. Y	N. 20	A 10.1	
				Trasv. Z	N. 12	A 6.0	
SNELLEZZA		roz 14.	roy 9.	Lamb 40	L 350.	lom 1.00	cz 1.00
cy 1.00							
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-13	188318.0	-258743.5	0.0	-7005.7	1357.7	1003.7	
7-5	547716.2	-121276.1	0.0	-6212.3	655.8	2715.1	
7-7	501943.6	-189468.8	0.0	-6607.6	1005.4	2501.6	
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Tz	0.58	0.45	-0.47	22.36	43.20
7-5	si	Acc Ty	1.03	0.39	-0.66	46.29	15.97
7-7	si	cls	1.02	0.41	-0.70	30.20	17.33

PILASTRATA : N. 147 P041 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
227	0.	230.	139	441
482	230.	580.	441	562
615	580.	930.	562	661



Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 27 | L 230. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-127972.8	-127972.8	0.0	-63986.4	-157.6	1016.0
3- 2	-127823.3	-127823.3	0.0	-63911.6	-164.3	1253.2
6- 4	-75530.3	-75530.3	0.0	-37765.2	-290.7	649.8

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccCls	-0.41	1.00	-0.44	192.67	42.68
3- 2	si	Ty	-0.41	1.00	-0.44	184.84	34.60
6- 4	si	Tz	-0.23	1.00	-0.25	104.44	66.73

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 27 | L 230. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
3- 2	186817.2	125580.8	0.0	-62790.4	-164.3	1253.2
6- 4	92742.1	73805.3	0.0	-36902.7	-290.7	649.8

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 2	si	AccCls	-0.43	1.00	-0.46	184.84	34.60
6- 4	si	Tz	-0.24	1.00	-0.25	104.44	66.73

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-13	-273152.1	254810.8	0.0	-24430.2	1383.8	1463.4
7- 4	-568650.5	216798.8	0.0	-24775.9	1176.6	2948.5
7- 5	-634895.3	53319.0	0.0	-25062.3	290.5	3283.7

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Tz	-0.44	0.62	-0.52	21.94	29.63
7- 4	si	AccCls	0.69	0.53	-0.77	25.80	14.71
7- 5	si	Ty	0.60	0.51	-0.63	104.49	13.20

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-13	239059.8	-229520.8	0.0	-23117.7	1383.8	1463.4
7- 4	463350.3	-195032.8	0.0	-23463.4	1176.6	2948.5
7- 5	514427.8	-48387.4	0.0	-23749.8	290.5	3283.7

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Tz	-0.39	0.63	-0.46	21.94	29.63
7- 4	si	AccCls	-0.54	0.55	-0.63	25.80	14.71
7- 5	si	Ty	-0.44	0.55	-0.50	104.49	13.20

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-13	-180737.0	222781.7	0.0	-11051.3	1352.0	1192.7
7- 4	-360937.5	192861.9	0.0	-11311.4	1169.8	2409.1
7- 5	-416179.1	40967.0	0.0	-11462.3	250.2	2769.9

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Tz	0.41	0.50	-0.41	22.45	36.35
7- 4	si	AccCls	0.62	0.47	-0.56	25.95	18.00
7- 5	si	Ty	0.52	0.45	-0.42	121.34	15.65

ARMATURE Long. tot. | N. 10 | A 20.1 | Trasp. Y | N. 20 | A 10.1 | Trasp. Z | N. 12 | A 6.0 |

SNELLEZZA | roz 14. | roy 9. | Lamb 40 | L 350. | om 1.00 | cz 1.00 | cy 1.00 |

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
6-13	236722.0	-250435.6	0.0	-9738.8	1352.0	1192.7
7- 4	482262.5	-216564.3	0.0	-9998.9	1169.8	2409.1
7- 5	553303.0	-46600.4	0.0	-10149.8	250.2	2769.9

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Tz	0.56	0.47	-0.51	22.45	36.35
7- 4	si	AccCls	0.92	0.44	-0.71	25.95	18.00
7- 5	si	Ty	0.83	0.40	-0.55	121.34	15.65

PILASTRATA : N. 148 P042 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
211	0.	115.	136	281
253	115.	230.	281	438
481	230.	580.	438	561
614	580.	930.	561	660

Sez. Rett.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	sol.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAY PRINC	16
7	SLU con SISMAY PRINC	16

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N.	12 <td>A</td> <td>6.0</td>	A	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om
SOLLECITAZIONI					1.00	cz	1.00	cy	1.00

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-15866.7	110504.6	0.0	-7933.4	1272.4	509.9
6-13	-11691.7	112227.7	0.0	-4712.6	1022.3	442.6
7- 4	-27732.0	104043.6	0.0	-5237.4	996.0	959.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Tz	-0.11	0.62	-0.14	23.86	85.03
6-13	si	AccCls	0.14	0.48	-0.13	29.70	97.96
7- 4	si	Ty	0.13	0.52	-0.14	30.48	45.20

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N. <td>12 <td>A <td>6.0</td> </td></td>	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om
SOLLECITAZIONI					1.00	cz	1.00	cy	1.00

Caso	MZ	MY	MT	N	TZ	TY
3- 1	45741.9	-35822.6	0.0	-7372.7	1272.4	509.9
7- 2	82047.0	-19473.3	0.0	-5000.8	933.3	949.0
7- 4	82652.5	-9612.2	0.0	-4806.1	996.0	959.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Tz	-0.07	0.86	-0.08	23.86	85.03
7- 2	si	AccCls	-0.08	0.63	-0.09	32.53	45.69
7- 4	si	Ty	-0.07	0.63	-0.08	30.48	45.20

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N. <td>12 <td>A <td>6.0</td> </td></td>	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om
SOLLECITAZIONI					1.00	cz	1.00	cy	1.00

Caso	MZ	MY	MT	N	TZ	TY
3- 1	45741.9	-43746.2	0.0	-9821.6	-1250.7	-2951.2
7- 2	82047.0	-24576.5	0.0	-6457.5	-792.1	-5505.5

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	AccClsTz	-0.08	0.94	-0.09	24.27	14.69
7- 2	si	Ty	-0.08	0.72	-0.09	38.33	7.88

ARMATURE Long. tot.	N.	10	A	20.1	Trasv. Y	N.	20	A	10.1
					Trasv. Z	N. <td>12 <td>A <td>6.0</td> </td></td>	12 <td>A <td>6.0</td> </td>	A <td>6.0</td>	6.0
SNELLEZZA	roz	14.	roy	9.	Lamb	13	L	115.	om
SOLLECITAZIONI					1.00	cz	1.00	cy	1.00

Caso	MZ	MY	MT	N	TZ	TY
3- 1	-293643.8	100083.6	0.0	-9260.9	-1250.7	-2951.2
7- 2	-550565.7	65579.1	0.0	-6026.2	-792.1	-5505.5
7- 4	-546268.8	80335.5	0.0	-5659.2	-852.7	-5464.3

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3- 1	si	Tz	0.42	0.47	-0.38	24.27	14.69
7- 2	si	Ty	0.97	0.38	-0.58	38.33	7.88
7- 4	si	AccCls	0.99	0.38	-0.60	35.60	7.94

PROGR. 230.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-4	-35174.7	-211303.9	0.0	-17587.3	-1138.4	55.2	
7-2	-576073.5	34639.8	0.0	-17319.9	-29.1	3009.9	
7-4	-571481.6	105110.4	0.0	-16482.2	374.7	2986.4	

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-4	si	Tz	-0.23	0.67	-0.27	26.67	784.90
7-2	si	Cls Ty	0.66	0.46	-0.56	1042.90	14.41
7-4	si	AccCls	0.76	0.46	-0.64	81.02	14.52

PROGR. 580.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-4	32549.7	187135.8	0.0	-16274.8	-1138.4	55.2	
7-2	477441.6	32280.4	0.0	-16007.4	-29.1	3009.9	
7-4	473783.5	-30339.4	0.0	-15169.7	374.7	2986.4	

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-4	si	Tz	-0.20	0.69	-0.24	26.67	784.90
7-2	si	Cls Ty	0.50	0.48	-0.46	1042.90	14.41
7-4	si	AccCls	0.52	0.47	-0.45	81.02	14.52

PROGR. 580.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3-1	-225258.5	-186340.2	0.0	-10837.2	-1061.4	1561.1	
6-4	-48498.0	-212491.4	0.0	-7465.6	-1324.3	317.3	
7-2	-337296.0	-74319.8	0.0	-7456.8	-411.5	2312.8	

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	Cls	0.40	0.51	-0.41	28.60	27.78
6-4	si	Tz	0.32	0.46	-0.28	22.93	136.64
7-2	si	AccCls	0.52	0.43	-0.39	73.78	18.75

PROGR. 930.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 40 L	350. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
6-4	62584.3	251049.6	0.0	-6153.1	-1324.3	317.3	
7-2	472276.4	69576.3	0.0	-6144.3	-411.5	2312.8	
7-5	427812.6	107970.0	0.0	-6287.9	-601.9	2094.4	

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-4	si	Tz	0.44	0.43	-0.33	22.93	136.64
7-2	si	AccCls	0.81	0.39	-0.51	73.78	18.75
7-5	si	Cls	0.77	0.40	-0.52	50.44	20.70

PILASTRATA : N. 149 P043

CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
215	0.	115.	154	298
257	115.	230.	298	456
486	230.	580.	456	566
619	580.	930.	566	665

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	SoIl.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAY PRINC	16
7	SLU con SISMAY PRINC	16

PROGR. 0.

ARMATURE Long. tot.	N.	10 A	20.1	Trasv. Y	N.	20 A	10.1
				Trasv. Z	N.	12 A	6.0
SNELLEZZA	roz 14.	roy 9.	Lamb 13 L	115. om 1.00	cz 1.00	cy 1.00	
SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
3-1	-23405.3	-9033.3	0.0	-4516.7	33.6	236.8	
7-5	-22576.7	6833.1	0.0	-3416.5	192.7	382.4	

DEFORMAZIONI

Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
3-1	si	AccCls	-0.03	1.00	-0.04	904.67	183.13
7-5	si	TzTy	-0.03	1.00	-0.03	157.55	113.39
-----							
PROGR. 115.							
ARMATURE Long. tot.   N. 10   A 20.1   Trasv. Y   N. 20   A 10.1							
Trasv. Z   N. 12   A 6.0							
SNELLEZZA   roz 14.   roy 9.   Lamb 13   L 115.   om 1.00   cz 1.00   cy 1.00							
SOLLECITAZIONI							
Caso		MZ	MY	MT	N	TZ	TY
7-4	si	-18907.9	-11924.1	0.0	-3648.8	110.1	208.4
7-5	si	5970.6	-18818.4	0.0	-2985.3	192.7	382.4
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
7-4	si	AccCls	-0.03	1.00	-0.03	275.81	208.06
7-5	si	TzTy	-0.03	0.95	-0.03	157.55	113.39
-----							
PROGR. 115.							
ARMATURE Long. tot.   N. 10   A 20.1   Trasv. Y   N. 20   A 10.1							
Trasv. Z   N. 12   A 6.0							
SNELLEZZA   roz 14.   roy 9.   Lamb 13   L 115.   om 1.00   cz 1.00   cy 1.00							
SOLLECITAZIONI							
Caso		MZ	MY	MT	N	TZ	TY
6-13	si	-34288.6	-11144.6	0.0	-5572.3	-398.0	4092.0
7-4	si	-32033.6	-25402.3	0.0	-5977.5	-1331.7	3885.8
7-5	si	-10361.6	-37754.0	0.0	-5180.8	-1861.8	1065.5
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Ty	-0.04	1.00	-0.05	76.27	10.60
7-4	si	AccCls	-0.05	0.93	-0.06	22.80	11.16
7-5	si	Tz	-0.05	0.89	-0.05	16.31	40.70
-----							
PROGR. 230.							
ARMATURE Long. tot.   N. 10   A 20.1   Trasv. Y   N. 20   A 10.1							
Trasv. Z   N. 12   A 6.0							
SNELLEZZA   roz 14.   roy 9.   Lamb 13   L 115.   om 1.00   cz 1.00   cy 1.00							
SOLLECITAZIONI							
Caso		MZ	MY	MT	N	TZ	TY
6-13	si	436436.2	40750.6	0.0	-5141.0	-398.0	4092.0
7-4	si	415312.4	127764.4	0.0	-5546.3	-1331.7	3885.8
7-5	si	121633.5	176375.1	0.0	-4749.6	-1861.8	1065.5
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Ty	0.74	0.37	-0.44	76.27	10.60
7-4	si	AccCls	0.80	0.40	-0.54	22.80	11.16
7-5	si	Tz	0.39	0.44	-0.31	16.31	40.70
-----							
PROGR. 230.							
ARMATURE Long. tot.   N. 10   A 20.1   Trasv. Y   N. 20   A 10.1							
Trasv. Z   N. 12   A 6.0							
SNELLEZZA   roz 14.   roy 9.   Lamb 40   L 350.   om 1.00   cz 1.00   cy 1.00							
SOLLECITAZIONI							
Caso		MZ	MY	MT	N	TZ	TY
6-13	si	574982.7	38827.6	0.0	-13730.3	250.0	-2770.9
7-4	si	547056.5	211981.6	0.0	-14824.7	1144.9	-2637.4
7-5	si	139581.1	306819.6	0.0	-13744.7	1637.0	-844.3
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Ty	0.76	0.43	-0.56	121.42	15.65
7-4	si	AccCls	0.90	0.46	-0.76	26.52	16.44
7-5	si	Tz	0.47	0.50	-0.47	18.55	51.35
-----							
PROGR. 580.							
ARMATURE Long. tot.   N. 10   A 20.1   Trasv. Y   N. 20   A 10.1							
Trasv. Z   N. 12   A 6.0							
SNELLEZZA   roz 14.   roy 9.   Lamb 40   L 350.   om 1.00   cz 1.00   cy 1.00							
SOLLECITAZIONI							
Caso		MZ	MY	MT	N	TZ	TY
6-13	si	-394851.2	-48685.4	0.0	-12417.8	250.0	-2770.9
7-4	si	-376059.6	-188719.8	0.0	-13512.2	1144.9	-2637.4
7-5	si	-155970.4	-266117.9	0.0	-12432.2	1637.0	-844.3
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty
6-13	si	Ty	0.46	0.47	-0.40	121.42	15.65
7-4	si	AccCls	0.58	0.49	-0.56	26.52	16.44
7-5	si	Tz	0.44	0.50	-0.44	18.55	51.35
-----							
PROGR. 580.							
ARMATURE Long. tot.   N. 10   A 20.1   Trasv. Y   N. 20   A 10.1							
Trasv. Z   N. 12   A 6.0							
SNELLEZZA   roz 14.   roy 9.   Lamb 40   L 350.   om 1.00   cz 1.00   cy 1.00							
SOLLECITAZIONI							
Caso		MZ	MY	MT	N	TZ	TY
7-3	si	276256.4	133953.2	0.0	-5823.1	848.5	-1920.8
7-4	si	278861.7	131111.5	0.0	-5835.1	829.7	-1951.4
7-5	si	180307.0	181357.2	0.0	-5393.2	1157.5	-1108.6
DEFORMAZIONI							
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty

7-3	si	Cls		0.53	0.44	-0.41	35.78	22.57			
7-4	si	Acc	Ty	0.53	0.44	-0.41	36.59	22.22			
7-5	si		Tz	0.46	0.45	-0.37	26.23	39.11			
-----									PROGR. 930.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
						Trasv. Z	N.	12	A	6.0	
SNELLEZZA		roz	14.	roy	9.	Lamb	40	L	350.	om	1.00
SOLLECITAZIONI		Caso	MZ	MY	MT	N	TZ	TY			
7-4		-404245.1	-159287.2	0.0	-4522.6	829.7	-1951.4				
7-5		-207847.0	-223765.7	0.0	-4080.7	1157.5	-1108.6				
DEFORMAZIONI											
Caso	Ver	massimi		Eacc		ξ	Ecls	vrd/Tz	vrd/Ty		
7-4	si	Acc	Cls Ty	0.85		0.40	-0.57	36.59	22.22		
7-5	si		Tz	0.62		0.42	-0.45	26.23	39.11		

PILASTRATA : N. 150 P044 CRITERI : 1

Asta	Progr. I.	Progr. F.	Nodo I.	Nodo F.
214	0.	115.	150	294
256	115.	230.	294	452
485	230.	580.	452	565
618	580.	930.	565	

  

Sez.	Progr. I.	Progr. F.	L	B	H	S1	S2	S3	S4
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.

CASI DI CARICO

N	Descrizione	Soll.
1	SLU	1
2	SLU VENTOX	2
3	SLU VENTOY	2
6	SLU con SISMAX PRINC	16
7	SLU con SISMAX PRINC	16

-----									PROGR. 0.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
						Trasv. Z	N.	12	A	6.0	
SNELLEZZA		roz	14.	roy	9.	Lamb	13	L	115.	om	1.00
SOLLECITAZIONI		Caso	MZ	MY	MT	N	TZ	TY			
3-2		-15376.0	-126768.0	0.0	-7688.0	-1813.7	63.0				
6-13		22340.4	-96459.5	0.0	-5155.7	-1306.2	-884.6				
7-12		-8529.2	-109876.9	0.0	-4264.6	-1320.5	100.5				
DEFORMAZIONI											
Caso	Ver	massimi		Eacc		ξ	Ecls	vrd/Tz	vrd/Ty		
3-2	si		Tz	-0.12		0.57	-0.15	16.74	688.51		
6-13	si		Ty	0.11		0.53	-0.12	23.24	49.02		
7-12	si	Acc		0.14		0.47	-0.13	22.99	431.42		

-----									PROGR. 115.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
						Trasv. Z	N.	12	A	6.0	
SNELLEZZA		roz	14.	roy	9.	Lamb	13	L	115.	om	1.00
SOLLECITAZIONI		Caso	MZ	MY	MT	N	TZ	TY			
3-2		-14254.7	81809.6	0.0	-7127.4	-1813.7	63.0				
6-13		-79392.5	54115.3	0.0	-4724.5	-1306.2	-884.6				
7-4		-75141.4	63698.7	0.0	-5332.7	-1260.2	-824.9				
DEFORMAZIONI											
Caso	Ver	massimi		Eacc		ξ	Ecls	vrd/Tz	vrd/Ty		
3-2	si		Tz	-0.09		0.69	-0.10	16.74	688.51		
6-13	si		Ty	-0.11		0.56	-0.12	23.24	49.02		
7-4	si	Acc	Cls	-0.11		0.57	-0.13	24.09	52.57		

-----									PROGR. 115.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
						Trasv. Z	N.	12	A	6.0	
SNELLEZZA		roz	14.	roy	9.	Lamb	13	L	115.	om	1.00
SOLLECITAZIONI		Caso	MZ	MY	MT	N	TZ	TY			
6-13		-79392.5	38062.5	0.0	-6218.3	59.2	5580.3				
7-4		-75141.4	44234.2	0.0	-7016.6	-60.3	5307.4				
7-15		32959.0	32208.8	0.0	-5230.8	290.8	-2079.5				
DEFORMAZIONI											
Caso	Ver	massimi		Eacc		ξ	Ecls	vrd/Tz	vrd/Ty		
6-13	si		Ty	-0.09		0.67	-0.10	512.70	7.77		
7-4	si	Acc	Cls	-0.09		0.70	-0.11	503.78	8.17		
7-15	si		Tz	-0.05		0.81	-0.06	104.42	20.85		

-----									PROGR. 230.		
ARMATURE Long. tot.		N.	10	A	20.1	Trasv. Y	N.	20	A	10.1	
						Trasv. Z	N.	12	A	6.0	
SNELLEZZA		roz	14.	roy	9.	Lamb	13	L	115.	om	1.00
SOLLECITAZIONI		Caso	MZ	MY	MT	N	TZ	TY			
6-13		562346.2	31223.7	0.0	-5787.1	59.2	5580.3				
7-4		535215.2	50954.7	0.0	-6585.3	-60.3	5307.4				

7-15	-206181.7	-9599.1	0.0	-4799.6	290.8	-2079.5					
DEFORMAZIONI											
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty				
6-13	si	Acc	Ty	0.95	0.36	-0.54	512.70	7.77			
7- 4	si	C	Ts	0.90	0.38	-0.54	503.78	8.17			
7-15	si	Tz		0.27	0.41	-0.19	104.42	20.85			
											PROGR.
											230.
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1											
Trasv. Z  N. 12 A 6.0											
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00											
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6-13	574967.3	73843.4	0.0	-18164.0	416.7	-2905.1					
7- 4	548416.8	205146.5	0.0	-20076.9	1090.9	-2765.0					
7- 5	125158.3	233057.5	0.0	-20864.3	1236.1	-663.2					
DEFORMAZIONI											
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty				
6-13	si	Acc	Ty	0.68	0.47	-0.60	72.86	14.93			
7- 4	si	C	Ts	0.75	0.50	-0.74	27.83	15.68			
7- 5	si	Tz		-0.31	0.66	-0.37	24.56	65.38			
											PROGR.
											580.
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1											
Trasv. Z  N. 12 A 6.0											
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00											
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6-13	-441839.9	-71996.9	0.0	-16851.5	416.7	-2905.1					
7- 4	-419347.0	-176667.5	0.0	-18764.4	1090.9	-2765.0					
7- 5	-106999.9	-199598.6	0.0	-19551.8	1236.1	-663.2					
DEFORMAZIONI											
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty				
6-13	si	Acc	Ty	0.46	0.50	-0.47	72.86	14.93			
7- 4	si	C	Ts	0.51	0.53	-0.57	27.83	15.68			
7- 5	si	Tz		-0.27	0.69	-0.31	24.56	65.38			
											PROGR.
											580.
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1											
Trasv. Z  N. 12 A 6.0											
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00											
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6-13	348095.1	42004.0	0.0	-7471.2	276.3	-2330.8					
7- 4	345815.9	125707.3	0.0	-8144.9	810.7	-2299.3					
7- 5	101117.2	149029.6	0.0	-8432.8	955.9	-646.2					
DEFORMAZIONI											
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty				
6-13	si	Acc	Ty	0.50	0.42	-0.36	109.87	18.60			
7- 4	si	C	Ts	0.58	0.44	-0.46	37.45	18.86			
7- 5	si	Tz		0.23	0.53	-0.25	31.76	67.11			
											PROGR.
											930.
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1											
Trasv. Z  N. 12 A 6.0											
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00											
SOLLECITAZIONI											
Caso	MZ	MY	MT	N	TZ	TY					
6-13	-467683.2	-54712.4	0.0	-6158.7	276.3	-2330.8					
7- 4	-458970.7	-158037.0	0.0	-6832.4	810.7	-2299.3					
7- 5	-125073.4	-185533.6	0.0	-7120.3	955.9	-646.2					
DEFORMAZIONI											
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty				
6-13	si	Acc	Ty	0.79	0.38	-0.49	109.87	18.60			
7- 4	si	C	Ts	0.88	0.41	-0.62	37.45	18.86			
7- 5	si	Tz		0.35	0.48	-0.32	31.76	67.11			
											PROGR.
											0.
PILASTRATA : N. 151 P045 CRITERI : 1											
Asta	Progr.I.	Progr.F.	Nodo I.	Nodo F.							
213	0.	115.	144	288							
255	115.	230.	288	446							
484	230.	580.	446	564							
617	580.	930.	564	663							
Sez.	Progr.I.	Progr.F.	L	B	H	S1	S2	S3	S4		
Rett.	0.	930.	930.	30.	50.	0.	0.	0.	0.		
CASI DI CARICO											
N	Descrizione	Sol									
1	SLU	1									
2	SLU VENTOX	2									
3	SLU VENTOY	2									
6	SLU con SISMAL PRINC	16									
7	SLU con SISMAY PRINC	16									
											PROGR.
											0.
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1											

SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 1	19722.3	-9243.6	0.0	-4621.8	38.8	-258.4			
7- 4	20097.8	6356.5	0.0	-3178.2	175.4	-412.5			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
3- 1	si	Acccls	-0.03	1.00	-0.03	781.97	167.79		
7- 4	si	TzTy	-0.02	1.00	-0.03	173.12	105.13		
----- PROGR. 115. -----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
7- 4	-29149.5	-15962.9	0.0	-2747.0	175.4	-412.5			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
7- 4	si	AccclsTzTy	-0.03	0.72	-0.04	173.12	105.13		
----- PROGR. 115. -----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	30291.1	-10291.0	0.0	-5145.5	-166.2	-3446.0			
7- 4	-46959.2	-34941.9	0.0	-4632.1	-1659.6	3249.2			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
6- 4	si	Ty	-0.04	1.00	-0.04	182.65	12.58		
7- 4	si	AccclsTz	-0.06	0.68	-0.07	18.29	13.35		
----- PROGR. 230. -----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 13 L 115. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	-366080.6	18663.5	0.0	-4714.3	-166.2	-3446.0			
7- 4	326981.3	155968.5	0.0	-4200.9	-1659.6	3249.2			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
6- 4	si	Ty	0.59	0.37	-0.34	182.65	12.58		
7- 4	si	AccclsTz	0.71	0.41	-0.49	18.29	13.35		
----- PROGR. 230. -----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	-478510.6	-26810.5	0.0	-13405.2	-3.8	2342.2			
7- 4	489831.1	261861.5	0.0	-13315.2	1407.0	-1846.5			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
6- 4	si	Ty	0.57	0.44	-0.45	8065.50	18.51		
7- 4	si	AccclsTz	0.91	0.46	-0.77	21.58	23.48		
----- PROGR. 580. -----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
6- 4	341276.2	-24185.5	0.0	-12092.7	-3.8	2342.2			
7- 4	-156516.8	-230636.0	0.0	-12002.7	1407.0	-1846.5			
7-13	326138.4	96821.1	0.0	-9682.6	-692.8	2232.5			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
6- 4	si	Ty	0.34	0.49	-0.32	8065.50	18.51		
7- 4	si	Tz	0.37	0.52	-0.40	21.58	23.48		
7-13	si	Acccls	0.46	0.46	-0.40	43.82	19.42		
----- PROGR. 580. -----									
ARMATURE Long. tot.  N. 10 A 20.1  Trasv. Y  N. 20 A 10.1									
Trasv. Z  N. 12 A 6.0									
SNELLEZZA  roz 14. roy 9. Lamb 40 L 350. om 1.00 cz 1.00 cy 1.00									
SOLLECITAZIONI									
Caso	MZ	MY	MT	N	TZ	TY			
3- 1	-333693.3	93511.3	0.0	-7442.3	468.5	1789.0			
7- 2	-132473.2	165289.2	0.0	-5672.6	1042.0	543.3			
7-13	-308193.1	-53266.6	0.0	-4547.1	-381.7	2036.4			
DEFORMAZIONI									
Caso	Ver	massimi	εacc	ξ	εcls	vrd/Tz	vrd/Ty		
3- 1	si	Acccls	0.54	0.43	-0.41	64.81	24.24		

7-2	si	Tz	0.36	0.46	-0.31	29.14	79.81
7-13	si	Ty	0.52	0.39	-0.34	79.53	21.29
ARMATURE Long. tot.							PROGR. 930.
N.	10	A	20.1	Trasv. Y	N.	20	A 10.1
SNELLEZZA				Trasv. Z	N.	12	A 6.0
roz	14.	roy	9.	Lamb	40	L	350.
SOLLECITAZIONI				om	1.00	cz	1.00
Caso	MZ	MY	MT	N	TZ	TY	
7-2	57234.0	-199446.6	0.0	-4360.1	1042.0	543.3	
7-13	405018.1	80366.1	0.0	-3234.6	-381.7	2036.4	
DEFORMAZIONI							
Caso	Ver	massimi	Eacc	ξ	Ecls	vrd/Tz	vrd/Ty
7-2	si	Tz	0.37	0.42	-0.27	29.14	79.81
7-13	si	Acccls Ty	0.78	0.37	-0.47	79.53	21.29

## DIMENSIONAMENTO E VERIFICA TRAVI

### VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 49 - Travata T1e001 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinale= 4.3 ; staffe= 3.5

### MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

### TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σ (rara)=124.5; σ (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO: of (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

### SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acls=1200. .

### DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A493	3	3	3	0	385.	335.	9.625	1.3	1.677	37.896
2	A494	3	3	3	0	475.	435.	11.875	1.3	3.804	85.959

### CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX	PRINC16
7.	SLU con SISMAX	PRINC16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

### VERIFICHE ALLO STATO LIMITE ULTIMO

#### FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-391098.	-.058	.145	-546809.	-.35	2.278	3.	.133	1.398	SI
0.	0.	3.	272726.	-.04	.101	546809.	-.35	2.278	3.	.133	2.005	SI
171.	171.	3.	326059.	-.048	.12	546809.	-.35	2.278	3.	.133	1.677	SI
257.	257.	3.	-55560.	-.008	.02	-546809.	-.35	2.278	3.	.133	9.842	SI
300.	300.	3.	-187596.	-.021	.036	-1039699.	-.35	1.395	3.	.201	5.542	SI
300.	300.	3.	255612.	-.033	.094	547697.	-.35	2.388	3.	.128	2.143	SI
344.	344.	3.	232019.	-.023	.044	1051660.	-.35	1.781	3.	.164	4.533	SI
385.	385.	3.	-403529.	-.041	.076	-1051660.	-.35	1.781	3.	.164	2.606	SI
385.	385.	3.	198599.	-.02	.037	1051660.	-.35	1.781	3.	.164	5.295	SI
> 385.	0.	3.	-289556.	-.029	.054	-1051660.	-.35	1.781	3.	.164	3.632	SI
385.	0.	3.	72650.	-.007	.014	1051660.	-.35	1.781	3.	.164	14.48	SI
448.	63.	3.	-221078.	-.025	.042	-1039699.	-.35	1.395	3.	.201	4.703	SI
448.	63.	3.	91739.	-.012	.034	547697.	-.35	2.388	3.	.128	5.97	SI
695.	310.	3.	-24430.	-.003	.009	-546809.	-.35	2.278	3.	.133	22.38	SI



807.	422.	3.	1.	143746.	!-.021	.053	546809.	!-.35	2.278	3.	.133	3.804	SI
860.	475.	3.	1.	-227036.	!-.033	.084	-546809.	!-.35	2.278	3.	.133	2.408	SI
860.	475.	3.	1.	140615.	!-.02	.052	546809.	!-.35	2.278	3.	.133	3.889	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2566.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	7030.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	3.	-3112.	4455.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3427.	4455.	24411.	24577.	1.01	9.	1.75	SI
385.	385.	3.	-7375.	3948.	28335.	14044.	1.01	9.	1.	SI
385.	385.	3.	1503.	3948.	28335.	14044.	1.01	9.	1.	SI
> 385.	0.	3.	-2418.	3948.	28335.	14044.	1.01	9.	1.	SI
385.	0.	3.	4693.	3948.	28335.	14044.	1.01	9.	1.	SI
426.	41.	3.	-2497.	4455.	28335.	14044.	1.01	9.	1.	SI
470.	85.	3.	-2712.	4455.	24411.	24577.	1.01	9.	1.75	SI
860.	475.	3.	-4550.	3948.	28335.	14044.	1.01	9.	1.	SI
860.	475.	3.	2365.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-149671.	-27.1	1149.6	4.02	10.22	.0328	32.64	.107	SI
41.	41.	3.	1.	-64230.	-11.6	493.3	4.02	10.22	.0141	32.64	.046	SI
171.	171.	3.	1.	229492.	-41.6	1762.7	4.02	10.22	.0504	32.64	.164	SI
385.	385.	3.	3.	-218404.	-27.9	857.2	8.04	9.43	.0245	21.47	.053	SI
> 385.	0.	3.	3.	-137552.	-17.6	539.9	8.04	9.43	.0154	21.47	.033	SI
650.	265.	3.	1.	79145.	-14.3	607.9	4.02	10.22	.0174	32.64	.057	SI
860.	475.	3.	1.	-69268.	-12.6	532.	4.02	10.22	.0152	32.64	.05	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-90476.	-16.4	694.9	4.02	10.22	.0199	32.64	.065	SI
41.	41.	3.	1.	-36061.	-6.5	277.	4.02	10.22	.0079	32.64	.026	SI
171.	171.	3.	1.	150651.	-27.3	1157.1	4.02	10.22	.0331	32.64	.108	SI
385.	385.	3.	3.	-151865.	-19.4	596.	8.04	9.43	.017	21.47	.037	SI
> 385.	0.	3.	3.	-111830.	-14.3	438.9	8.04	9.43	.0125	21.47	.027	SI
650.	265.	3.	1.	79124.	-14.3	607.7	4.02	10.22	.0174	32.64	.057	SI
860.	475.	3.	1.	-69268.	-12.6	532.	4.02	10.22	.0152	32.64	.05	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-92633.	-16.8	711.5	4.02	10.22	.0203	32.64	.066	SI
41.	41.	3.	1.	-35616.	-6.5	273.6	4.02	10.22	.0078	32.64	.026	SI
171.	171.	3.	1.	148218.	-26.9	1138.4	4.02	10.22	.0325	32.64	.106	SI
385.	385.	3.	3.	-150170.	-19.2	589.4	8.04	9.43	.0168	21.47	.036	SI
> 385.	0.	3.	3.	-109660.	-14.	430.4	8.04	9.43	.0123	21.47	.026	SI
650.	265.	3.	1.	79036.	-14.3	607.1	4.02	10.22	.0173	32.64	.057	SI
860.	475.	3.	1.	-69268.	-12.6	532.	4.02	10.22	.0152	32.64	.05	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 50 - Travata T1e002 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σ (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Ac1s=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A498	3	3	3	0	395.	355.	9.875	1.3	1.783	40.297
2	A499	3	3	3	0	475.	435.	11.875	1.3	4.734	106.975

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	16
7.	SLU con SISMAY PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-266896.	-.039	.099	-546809.	-.35	2.278	3.	.133	2.049	SI
0.	0.	3. 1.	121230.	-.017	.045	546809.	-.35	2.278	3.	.133	4.511	SI
114.	114.	3. 1.	-26458.	-.004	.01	-546809.	-.35	2.278	3.	.133	20.67	SI
192.	192.	3. 1.	306627.	-.045	.113	546809.	-.35	2.278	3.	.133	1.783	SI
310.	310.	3. 2.	-119104.	-.013	.023	-1039699.	-.35	1.395	3.	.201	8.729	SI
310.	310.	3. 2.	192293.	-.024	.071	547697.	-.35	2.388	3.	.128	2.848	SI
354.	354.	3. 3.	147706.	-.015	.028	1051660.	-.35	1.781	3.	.164	7.12	SI
395.	395.	3. 3.	-276889.	-.028	.052	-1051660.	-.35	1.781	3.	.164	3.798	SI
395.	395.	3. 3.	100098.	-.01	.019	1051660.	-.35	1.781	3.	.164	10.51	SI
> 395.	0.	3. 3.	-221270.	-.022	.042	-1051660.	-.35	1.781	3.	.164	4.753	SI
395.	0.	3. 3.	59670.	-.006	.011	1051660.	-.35	1.781	3.	.164	17.63	SI
458.	63.	3. 2.	-173347.	-.02	.033	-1039699.	-.35	1.395	3.	.201	5.998	SI
458.	63.	3. 2.	66660.	-.008	.025	547697.	-.35	2.388	3.	.128	8.216	SI
615.	220.	3. 1.	-1891.	0.	.001	-546809.	-.35	2.278	3.	.133	289.1	SI
854.	459.	3. 1.	115506.	-.016	.043	546809.	-.35	2.278	3.	.133	4.734	SI
870.	475.	3. 1.	-165602.	-.024	.061	-546809.	-.35	2.278	3.	.133	3.302	SI
870.	475.	3. 1.	115506.	-.016	.043	546809.	-.35	2.278	3.	.133	4.734	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-1833.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6570.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2751.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2751.	4455.	24411.	24577.	1.01	9.	1.75	SI
395.	395.	3.	-6361.	3948.	28335.	14044.	1.01	9.	1.	SI
395.	395.	3.	1737.	3948.	28335.	14044.	1.01	9.	1.	SI
> 395.	0.	3.	-2808.	3948.	28335.	14044.	1.01	9.	1.	SI
395.	0.	3.	4257.	3948.	28335.	14044.	1.01	9.	1.	SI
436.	41.	3.	-2857.	4455.	28335.	14044.	1.01	9.	1.	SI
480.	85.	3.	-2992.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	475.	3.	-4140.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	475.	3.	2802.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-188872.	-34.2	1450.7	4.02	10.22	.0414	32.64	.135	SI
15.	15.	3. 1.	-139460.	-25.3	1071.2	4.02	10.22	.0306	32.64	.1	SI
31.	31.	3. 1.	-86539.	-15.7	664.7	4.02	10.22	.019	32.64	.062	SI
192.	192.	3. 1.	216444.	-39.2	1662.5	4.02	10.22	.0475	32.64	.155	SI
395.	395.	3. 3.	-178011.	-22.7	698.6	8.04	9.43	.02	21.47	.043	SI
> 395.	0.	3. 3.	-98999.	-12.7	388.5	8.04	9.43	.0111	21.47	.024	SI
660.	265.	3. 1.	49501.	-9.	380.2	4.02	10.22	.0109	32.64	.035	SI
870.	475.	3. 1.	-43292.	-7.8	332.5	4.02	10.22	.0095	32.64	.031	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-87248.	-15.8	670.1	4.02	10.22	.0191	32.64	.062	SI
31.	31.	3. 1.	-54667.	-9.9	419.9	4.02	10.22	.012	32.64	.039	SI
192.	192.	3. 1.	134270.	-24.3	1031.3	4.02	10.22	.0295	32.64	.096	SI

395.	395.	3.	3.	-118965.!	-15.2	466.9	8.04	9.43	.0133	21.47	.029	SI
> 395.	0.	3.	3.	-82479.!	-10.5	323.7	8.04	9.43	.0092	21.47	.02	SI
660.	265.	3.	1.	49590.!	-9.!	380.9	4.02	10.22	.0109	32.64	.036	SI
870.	475.	3.	1.	-43292.!	-7.8	332.5	4.02	10.22	.0095	32.64	.031	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-85778.!	-15.5	658.8	4.02	10.22	.0188	32.64	.061	SI
31.	31.	3.	1.	-53866.!	-9.8	413.7	4.02	10.22	.0118	32.64	.039	SI
192.	192.	3.	1.	131954.!	-23.9	1013.5	4.02	10.22	.029	32.64	.095	SI
395.	395.	3.	3.	-118411.!	-15.1	464.7	8.04	9.43	.0133	21.47	.029	SI
> 395.	0.	3.	3.	-81459.!	-10.4	319.7	8.04	9.43	.0091	21.47	.02	SI
660.	265.	3.	1.	49489.!	-9.!	380.1	4.02	10.22	.0109	32.64	.035	SI
870.	475.	3.	1.	-43292.!	-7.8	332.5	4.02	10.22	.0095	32.64	.031	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 5l - Travata T1e003 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>max</sub>(fre.)=.4 ; w<sub>max</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	lam.max
1	A503	3	3	3	0	435.	405.	10.875	1.3	3.024	68.325
2	A504	3	3	3	0	435.	405.	10.875	1.5	4.518	117.794
3	A506	3	3	3	0	525.	355.	13.125	1.5	4.08	106.387
4	A507	3	3	3	0	355.	330.	8.875	1.5	2.962	77.236
5	A508	3	3	3	0	415.	365.	10.375	1.5	1.153	30.074
6	A509	3	3	3	0	435.	385.	10.875	1.5	1.31	34.144
7	A510	3	3	3	0	455.	405.	11.375	1.5	1.545	40.276
8	A511	3	3	3	0	435.	385.	10.875	1.5	1.319	34.393
9	A512	3	3	3	0	435.	385.	10.875	1.5	1.319	34.383
10	A513	3	3	3	0	295.	255.	7.375	1.3	2.759	62.354

CASI DI CARICO DA MODELLO 3D

SLU			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
1.	SLU	1.	18.	Frequente	1.	21.	Quasi Perm	1.
2.	SLU VENTOX	2.	19.	Frequente Ventox	2.			
3.	SLU VENTYO	2.	20.	Frequente Ventoy	2.			
6.	SLU con SISMAX PRINC16							
7.	SLU con SISMAX PRINC16							

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-248383.!	-.036!	.092!	-546809.!	-.35	2.278	3.	.133	2.201	SI

0.	0.	3.	1.	141486.	-.02	.052	546809.	-.35	2.278	3.	.133	3.865	SI
116.	116.	3.	1.	180844.	-.026	.067	546809.	-.35	2.278	3.	.133	3.024	SI
279.	279.	3.	1.	-479.	0.	0.	-546809.	-.35	2.278	3.	.133	1143.	SI
319.	319.	3.	2.	-83643.	-.009	.016	-1039699.	-.35	1.395	3.	.201	12.43	SI
319.	319.	3.	2.	100233.	-.013	.037	547697.	-.35	2.388	3.	.128	5.464	SI
419.	419.	3.	3.	25423.	-.002	.005	1051660.	-.35	1.781	3.	.164	41.37	SI
435.	435.	3.	3.	-326500.	-.033	.061	-1051660.	-.35	1.781	3.	.164	3.221	SI
435.	435.	3.	3.	5206.	-.001	.001	1051660.	-.35	1.781	3.	.164	202.	SI
> 435.	0.	3.	3.	-235044.	-.023	.044	-1051660.	-.35	1.781	3.	.164	4.474	SI
435.	0.	3.	3.	105413.	-.01	.02	1051660.	-.35	1.781	3.	.164	9.977	SI
488.	53.	3.	2.	-175834.	-.02	.033	-1039699.	-.35	1.395	3.	.201	5.913	SI
488.	53.	3.	2.	121023.	-.015	.045	547697.	-.35	2.388	3.	.128	4.526	SI
510.	75.	3.	2.	121231.	-.015	.045	547697.	-.35	2.388	3.	.128	4.518	SI
673.	238.	3.	1.	-13184.	-.002	.005	-546809.	-.35	2.278	3.	.133	41.48	SI
839.	404.	3.	2.	-326538.	-.037	.062	-1039699.	-.35	1.395	3.	.201	3.184	SI
870.	435.	3.	3.	-344616.	-.035	.065	-1051660.	-.35	1.781	3.	.164	3.052	SI
870.	435.	3.	3.	68459.	-.007	.013	1051660.	-.35	1.781	3.	.164	15.36	SI
> 870.	0.	3.	3.	-213938.	-.021	.04	-1051660.	-.35	1.781	3.	.164	4.916	SI
870.	0.	3.	3.	21216.	-.002	.004	1051660.	-.35	1.781	3.	.164	49.57	SI
901.	31.	3.	2.	-199788.	-.023	.038	-1039699.	-.35	1.395	3.	.201	5.204	SI
901.	31.	3.	2.	61529.	-.008	.023	547697.	-.35	2.388	3.	.128	8.901	SI
1075.	205.	3.	1.	134013.	-.019	.049	546809.	-.35	2.278	3.	.133	4.08	SI
1379.	509.	3.	1.	74.	0.	0.	546809.	-.35	2.278	3.	.133	7346.	SI
1395.	525.	3.	1.	-116842.	-.017	.043	-546809.	-.35	2.278	3.	.133	4.68	SI
> 1395.	0.	3.	2.	-527616.	-.062	.1	-1039699.	-.35	1.395	3.	.201	1.971	SI
1395.	0.	3.	2.	232856.	-.03	.086	547697.	-.35	2.388	3.	.128	2.352	SI
1581.	186.	3.	1.	-28446.	-.004	.01	-546809.	-.35	2.278	3.	.133	19.22	SI
1709.	314.	3.	2.	321062.	-.041	.118	547697.	-.35	2.388	3.	.128	1.706	SI
1725.	330.	3.	3.	342883.	-.034	.065	1051660.	-.35	1.781	3.	.164	3.067	SI
1734.	339.	3.	3.	355020.	-.036	.067	1051660.	-.35	1.781	3.	.164	2.962	SI
1750.	355.	3.	3.	-373007.	-.038	.07	-1051660.	-.35	1.781	3.	.164	2.819	SI
1750.	355.	3.	3.	355020.	-.036	.067	1051660.	-.35	1.781	3.	.164	2.962	SI
> 1750.	0.	3.	3.	-515445.	-.053	.097	-1051660.	-.35	1.781	3.	.164	2.04	SI
1750.	0.	3.	3.	50276.	-.005	.009	1051660.	-.35	1.781	3.	.164	20.92	SI
1791.	41.	3.	2.	-434633.	-.05	.083	-1039699.	-.35	1.395	3.	.201	2.392	SI
1791.	41.	3.	2.	185685.	-.024	.068	547697.	-.35	2.388	3.	.128	2.95	SI
1958.	208.	3.	1.	474071.	-.071	.176	546809.	-.35	2.278	3.	.133	1.153	SI
2165.	415.	3.	3.	-540418.	-.055	.102	-1051660.	-.35	1.781	3.	.164	1.946	SI
2165.	415.	3.	3.	60954.	-.006	.011	1051660.	-.35	1.781	3.	.164	17.25	SI
> 2165.	0.	3.	3.	-534050.	-.054	.101	-1051660.	-.35	1.781	3.	.164	1.969	SI
2165.	0.	3.	3.	112206.	-.011	.021	1051660.	-.35	1.781	3.	.164	9.373	SI
2206.	41.	3.	2.	-470078.	-.055	.089	-1039699.	-.35	1.395	3.	.201	2.212	SI
2206.	41.	3.	2.	217314.	-.028	.08	547697.	-.35	2.388	3.	.128	2.52	SI
2382.	218.	3.	1.	417563.	-.062	.154	546809.	-.35	2.278	3.	.133	1.31	SI
2600.	435.	3.	3.	-489035.	-.05	.092	-1051660.	-.35	1.781	3.	.164	2.15	SI
2600.	435.	3.	3.	131577.	-.013	.025	1051660.	-.35	1.781	3.	.164	7.993	SI
> 2600.	0.	3.	3.	-494187.	-.05	.093	-1051660.	-.35	1.781	3.	.164	2.128	SI
2600.	0.	3.	3.	152992.	-.015	.029	1051660.	-.35	1.781	3.	.164	6.874	SI
2641.	41.	3.	2.	-439540.	-.051	.084	-1039699.	-.35	1.395	3.	.201	2.365	SI
2641.	41.	3.	2.	231997.	-.03	.085	547697.	-.35	2.388	3.	.128	2.361	SI
2848.	248.	3.	1.	353990.	-.052	.131	546809.	-.35	2.278	3.	.133	1.545	SI
2889.	289.	3.	1.	-7408.	-.001	.003	-546809.	-.35	2.278	3.	.133	73.81	SI
3055.	455.	3.	3.	-487073.	-.049	.092	-1051660.	-.35	1.781	3.	.164	2.159	SI
3055.	455.	3.	3.	156043.	-.015	.029	1051660.	-.35	1.781	3.	.164	6.74	SI
> 3055.	0.	3.	3.	-497435.	-.051	.094	-1051660.	-.35	1.781	3.	.164	2.114	SI
3055.	0.	3.	3.	112851.	-.011	.021	1051660.	-.35	1.781	3.	.164	9.319	SI
3096.	41.	3.	2.	-435451.	-.051	.083	-1039699.	-.35	1.395	3.	.201	2.388	SI
3096.	41.	3.	2.	216488.	-.028	.08	547697.	-.35	2.388	3.	.128	2.53	SI
3272.	218.	3.	1.	414544.	-.061	.153	546809.	-.35	2.278	3.	.133	1.319	SI
3490.	435.	3.	3.	-508284.	-.052	.096	-1051660.	-.35	1.781	3.	.164	2.069	SI
3490.	435.	3.	3.	108704.	-.011	.02	1051660.	-.35	1.781	3.	.164	9.674	SI
> 3490.	0.	3.	3.	-509255.	-.052	.096	-1051660.	-.35	1.781	3.	.164	2.065	SI
3490.	0.	3.	3.	86733.	-.009	.016	1051660.	-.35	1.781	3.	.164	12.13	SI
3531.	41.	3.	2.	-445043.	-.052	.085	-1039699.	-.35	1.395	3.	.201	2.336	SI
3531.	41.	3.	2.	194759.	-.025	.072	547697.	-.35	2.388	3.	.128	2.812	SI
3708.	218.	3.	1.	414660.	-.061	.153	546809.	-.35	2.278	3.	.133	1.319	SI
3925.	435.	3.	3.	-467997.	-.047	.088	-1051660.	-.35	1.781	3.	.164	2.247	SI
3925.	435.	3.	3.	103759.	-.01	.019	1051660.	-.35	1.781	3.	.164	10.14	SI
> 3925.	0.	3.	3.	-331511.	-.033	.062	-1051660.	-.35	1.781	3.	.164	3.172	SI
3925.	0.	3.	3.	147759.	-.015	.028	1051660.	-.35	1.781	3.	.164	7.117	SI
3966.	41.	3.	2.	-289825.	-.033	.055	-1039699.	-.35	1.395	3.	.201	3.587	SI
3966.	41.	3.	2.	145060.	-.018	.053	547697.	-.35	2.388	3.	.128	3.776	SI
4078.	152.	3.	1.	-2458.	0.	.001	-546809.	-.35	2.278	3.	.133	222.5	SI
4204.	279.	3.	1.	198162.	-.029	.073	546809.	-.35	2.278	3.	.133	2.759	SI
4220.	295.	3.	1.	-274733.	-.04	.101	-546809.	-.35	2.278	3.	.133	1.99	SI
4220.	295.	3.	1.	198162.	-.029	.073	546809.	-.35	2.278	3.	.133	2.759	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-2014.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	5448.	3948.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-2553.	4455.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-2553.	4455.	24411.	24577.	1.01	9.	1.75
435.	435.	3.	-5651.	3948.	28335.	14044.	1.01	9.	1.
435.	435.	3.	1542.	3948.	28335.	14044.	1.01	9.	1.

> 435.	0.	3.	-3579.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	0.	3.	6439.	3948.	28335.	14044.	1.01	9.	1.	SI
488.	53.	3.	-3877.	4455.	28335.	14044.	1.01	9.	1.	SI
510.	75.	3.	-4048.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	435.	3.	-6746.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	435.	3.	3037.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	-2481.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	0.	3.	5301.	3948.	28335.	14044.	1.01	9.	1.	SI
945.	75.	3.	-3005.	4455.	24411.	24577.	1.01	9.	1.75	SI
1205.	335.	3.	-5276.	4455.	28335.	14044.	1.01	9.	1.	SI
1395.	525.	3.	-4630.	4455.	28335.	14044.	1.01	9.	1.	SI
1395.	525.	3.	3021.	4455.	28335.	14044.	1.01	9.	1.	SI
>1395.	0.	3.	-3973.	4455.	28335.	14044.	1.01	9.	1.	SI
1395.	0.	3.	7342.	4455.	28335.	14044.	1.01	9.	1.	SI
1455.	60.	3.	-4441.	4455.	24411.	24577.	1.01	9.	1.75	SI
1750.	355.	3.	-6550.	3948.	28335.	14044.	1.01	9.	1.	SI
1750.	355.	3.	4570.	3948.	28335.	14044.	1.01	9.	1.	SI
>1750.	0.	3.	-841.	3948.	28335.	14044.	1.01	9.	1.	SI
1750.	0.	3.	9785.	3948.	28335.	14044.	1.01	9.	1.	SI
1791.	41.	3.	-1205.	4455.	28335.	14044.	1.01	9.	1.	SI
1835.	85.	3.	-2199.	4455.	24411.	24577.	1.01	9.	1.75	SI
2165.	415.	3.	-9102.	3948.	28335.	14044.	1.01	9.	1.	SI
2165.	415.	3.	392.	3948.	28335.	14044.	1.01	9.	1.	SI
>2165.	0.	3.	-966.	3948.	28335.	14044.	1.01	9.	1.	SI
2165.	0.	3.	9248.	3948.	28335.	14044.	1.01	9.	1.	SI
2206.	41.	3.	-1291.	4455.	28335.	14044.	1.01	9.	1.	SI
2250.	85.	3.	-2178.	4455.	24411.	24577.	1.01	9.	1.75	SI
2600.	435.	3.	-8743.	3948.	28335.	14044.	1.01	9.	1.	SI
2600.	435.	3.	461.	3948.	28335.	14044.	1.01	9.	1.	SI
>2600.	0.	3.	-998.	3948.	28335.	14044.	1.01	9.	1.	SI
2600.	0.	3.	8734.	3948.	28335.	14044.	1.01	9.	1.	SI
2641.	41.	3.	-1287.	4455.	28335.	14044.	1.01	9.	1.	SI
2685.	85.	3.	-2077.	4455.	24411.	24577.	1.01	9.	1.75	SI
3055.	455.	3.	-8280.	3948.	28335.	14044.	1.01	9.	1.	SI
3055.	455.	3.	553.	3948.	28335.	14044.	1.01	9.	1.	SI
>3055.	0.	3.	-966.	3948.	28335.	14044.	1.01	9.	1.	SI
3055.	0.	3.	9248.	3948.	28335.	14044.	1.01	9.	1.	SI
3096.	41.	3.	-1291.	4455.	28335.	14044.	1.01	9.	1.	SI
3140.	85.	3.	-2178.	4455.	24411.	24577.	1.01	9.	1.75	SI
3490.	435.	3.	-8743.	3948.	28335.	14044.	1.01	9.	1.	SI
3490.	435.	3.	461.	3948.	28335.	14044.	1.01	9.	1.	SI
>3490.	0.	3.	-973.	3948.	28335.	14044.	1.01	9.	1.	SI
3490.	0.	3.	9545.	3948.	28335.	14044.	1.01	9.	1.	SI
3531.	41.	3.	-1298.	4455.	28335.	14044.	1.01	9.	1.	SI
3575.	85.	3.	-2185.	4455.	24411.	24577.	1.01	9.	1.75	SI
3925.	435.	3.	-8750.	3948.	28335.	14044.	1.01	9.	1.	SI
3925.	435.	3.	758.	3948.	28335.	14044.	1.01	9.	1.	SI
>3925.	0.	3.	-3986.	3948.	28335.	14044.	1.01	9.	1.	SI
3925.	0.	3.	7058.	3948.	28335.	14044.	1.01	9.	1.	SI
3966.	41.	3.	-4139.	4455.	28335.	14044.	1.01	9.	1.	SI
4010.	85.	3.	-4558.	4455.	24411.	24577.	1.01	9.	1.75	SI
4220.	295.	3.	-6418.	3948.	28335.	14044.	1.01	9.	1.	SI
4220.	295.	3.	4244.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	-86067.	-15.6	661.1	4.02	10.22	.0189	32.64	.062	SI
31.	31.	3.	-59512.	-10.8	457.1	4.02	10.22	.0131	32.64	.043	SI
197.	197.	3.	126759.	-23.	973.6	4.02	10.22	.0278	32.64	.091	SI
435.	435.	3.	-172197.	-22.	675.8	8.04	9.43	.0193	21.47	.041	SI
> 435.	0.	3.	-84098.	-10.7	330.1	8.04	9.43	.0094	21.47	.02	SI
632.	197.	3.	84924.	-15.4	652.3	4.02	10.22	.0186	32.64	.061	SI
870.	435.	3.	-169785.	-21.7	666.4	8.04	9.43	.019	21.47	.041	SI
> 870.	0.	3.	-103570.	-13.2	406.5	8.04	9.43	.0116	21.47	.025	SI
1075.	205.	3.	92369.	-16.7	709.5	4.02	10.22	.0203	32.64	.066	SI
1395.	525.	3.	-81688.	-14.8	627.4	4.02	10.22	.0179	32.64	.059	SI
>1395.	0.	3.	-175423.	-24.8	692.1	8.04	9.17	.0198	21.2	.042	SI
1623.	228.	3.	56796.	-10.3	436.2	4.02	10.22	.0125	32.64	.041	SI
1750.	355.	3.	-56488.	-7.2	221.7	8.04	9.43	.0063	21.47	.014	SI
>1750.	0.	3.	-347480.	-44.4	1363.8	8.04	9.43	.0468	21.47	.1	SI
1958.	208.	3.	330944.	-60.	2541.9	4.02	10.22	.0851	32.64	.278	SI
2165.	415.	3.	-362897.	-46.4	1424.3	8.04	9.43	.0496	21.47	.107	SI
>2165.	0.	3.	-357155.	-45.6	1401.7	8.04	9.43	.0486	21.47	.104	SI
2382.	218.	3.	291424.	-52.8	2238.4	4.02	10.22	.0707	32.64	.231	SI
2600.	435.	3.	-304602.	-38.9	1195.5	8.04	9.43	.0388	21.47	.083	SI
>2600.	0.	3.	-297233.	-38.	1166.6	8.04	9.43	.0374	21.47	.08	SI
2848.	248.	3.	247045.	-44.8	1897.5	4.02	10.22	.0545	32.64	.178	SI
3055.	455.	3.	-286887.	-36.7	1126.	8.04	9.43	.0354	21.47	.076	SI
>3055.	0.	3.	-323352.	-41.3	1269.1	8.04	9.43	.0423	21.47	.091	SI
3272.	218.	3.	289325.	-52.4	2222.3	4.02	10.22	.0699	32.64	.228	SI
3490.	435.	3.	-335055.	-42.8	1315.	8.04	9.43	.0444	21.47	.095	SI
>3490.	0.	3.	-340770.	-43.5	1337.4	8.04	9.43	.0455	21.47	.098	SI
3708.	218.	3.	289415.	-52.5	2222.9	4.02	10.22	.0699	32.64	.228	SI
3925.	435.	3.	-299967.	-38.3	1177.3	8.04	9.43	.0379	21.47	.081	SI
>3925.	0.	3.	-103450.	-13.2	406.	8.04	9.43	.0116	21.47	.025	SI

4078.	152.	3.	1.	66663.!	-12.1	512.!	4.02	10.22	.0146	32.64	.048	SI
4220.	295.	3.	1.	-58419.!	-10.6	448.7	4.02	10.22	.0128	32.64	.042	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-86091.!	-15.6	661.2	4.02	10.22	.0189	32.64	.062	SI
31.	31.	3.	1.	-59550.!	-10.8	457.5	4.02	10.22	.0131	32.64	.043	SI
197.	197.	3.	1.	127149.!	-23.!	976.6	4.02	10.22	.0279	32.64	.091	SI
435.	435.	3.	3.	-172264.!	-22.!	676.1	8.04	9.43	.0193	21.47	.041	SI
> 435.	0.	3.	3.	-84098.!	-10.7	330.1	8.04	9.43	.0094	21.47	.02	SI
632.	197.	3.	1.	84517.!	-15.3	649.2	4.02	10.22	.0185	32.64	.061	SI
870.	435.	3.	3.	-161165.!	-20.6	632.5	8.04	9.43	.0181	21.47	.039	SI
> 870.	0.	3.	3.	-103287.!	-13.2	405.4	8.04	9.43	.0116	21.47	.025	SI
1075.	205.	3.	1.	88583.!	-16.1	680.4	4.02	10.22	.0194	32.64	.063	SI
1395.	525.	3.	1.	-81161.!	-14.7	623.4	4.02	10.22	.0178	32.64	.058	SI
>1395.	0.	3.	2.	-153569.!	-21.7	605.9	8.04	9.17	.0173	21.2	.037	SI
1623.	228.	3.	1.	56524.!	-10.2	434.1	4.02	10.22	.0124	32.64	.04	SI
1750.	355.	3.	3.	-56488.!	-7.2	221.7	8.04	9.43	.0063	21.47	.014	SI
>1750.	0.	3.	3.	-305336.!	-39.!	1198.4	8.04	9.43	.0389	21.47	.083	SI
1958.	208.	3.	1.	289685.!	-52.5	2225.!	4.02	10.22	.07	32.64	.229	SI
2165.	415.	3.	3.	-314414.!	-40.2	1234.!	8.04	9.43	.0406	21.47	.087	SI
>2165.	0.	3.	3.	-311111.!	-39.8	1221.!	8.04	9.43	.04	21.47	.086	SI
2382.	218.	3.	1.	255653.!	-46.3	1963.6	4.02	10.22	.0576	32.64	.188	SI
2600.	435.	3.	3.	-265293.!	-33.9	1041.2	8.04	9.43	.0314	21.47	.067	SI
>2600.	0.	3.	3.	-258431.!	-33.!	1014.3	8.04	9.43	.0301	21.47	.065	SI
2848.	248.	3.	1.	216438.!	-39.2	1662.4	4.02	10.22	.0475	32.64	.155	SI
3055.	455.	3.	3.	-249732.!	-31.9	980.1	8.04	9.43	.0285	21.47	.061	SI
>3055.	0.	3.	3.	-281398.!	-36.!	1104.4	8.04	9.43	.0344	21.47	.074	SI
3272.	218.	3.	1.	253778.!	-46.!	1949.2	4.02	10.22	.0569	32.64	.186	SI
3490.	435.	3.	3.	-291250.!	-37.2	1143.1	8.04	9.43	.0363	21.47	.078	SI
>3490.	0.	3.	3.	-296161.!	-37.8	1162.4	8.04	9.43	.0372	21.47	.08	SI
3708.	218.	3.	1.	253450.!	-45.9	1946.7	4.02	10.22	.0568	32.64	.185	SI
3925.	435.	3.	3.	-260356.!	-33.3	1021.8	8.04	9.43	.0305	21.47	.065	SI
>3925.	0.	3.	3.	-95581.!	-12.2	375.1	8.04	9.43	.0107	21.47	.023	SI
4078.	152.	3.	1.	66872.!	-12.1	513.6	4.02	10.22	.0147	32.64	.048	SI
4220.	295.	3.	1.	-58419.!	-10.6	448.7	4.02	10.22	.0128	32.64	.042	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-86086.!	-15.6	661.2	4.02	10.22	.0189	32.64	.062	SI
31.	31.	3.	1.	-59550.!	-10.8	457.4	4.02	10.22	.0131	32.64	.043	SI
197.	197.	3.	1.	126823.!	-23.!	974.1	4.02	10.22	.0278	32.64	.091	SI
435.	435.	3.	3.	-171961.!	-22.!	674.9	8.04	9.43	.0193	21.47	.041	SI
> 435.	0.	3.	3.	-84098.!	-10.7	330.1	8.04	9.43	.0094	21.47	.02	SI
632.	197.	3.	1.	84504.!	-15.3	649.1	4.02	10.22	.0185	32.64	.061	SI
870.	435.	3.	3.	-158886.!	-20.3	623.6	8.04	9.43	.0178	21.47	.038	SI
> 870.	0.	3.	3.	-102490.!	-13.1	402.2	8.04	9.43	.0115	21.47	.025	SI
1075.	205.	3.	1.	88328.!	-16.!	678.4	4.02	10.22	.0194	32.64	.063	SI
1395.	525.	3.	1.	-81153.!	-14.7	623.3	4.02	10.22	.0178	32.64	.058	SI
>1395.	0.	3.	2.	-147380.!	-20.9	581.5	8.04	9.17	.0166	21.2	.035	SI
1623.	228.	3.	1.	57145.!	-10.4	438.9	4.02	10.22	.0125	32.64	.041	SI
1750.	355.	3.	3.	-56488.!	-7.2	221.7	8.04	9.43	.0063	21.47	.014	SI
>1750.	0.	3.	3.	-287287.!	-36.7	1127.5	8.04	9.43	.0355	21.47	.076	SI
1958.	208.	3.	1.	273298.!	-49.5	2099.1	4.02	10.22	.0641	32.64	.209	SI
2165.	415.	3.	3.	-296753.!	-37.9	1164.7	8.04	9.43	.0373	21.47	.08	SI
>2165.	0.	3.	3.	-292518.!	-37.4	1148.1	8.04	9.43	.0365	21.47	.078	SI
2382.	218.	3.	1.	241320.!	-43.7	1853.5	4.02	10.22	.053	32.64	.173	SI
2600.	435.	3.	3.	-250491.!	-32.!	983.1	8.04	9.43	.0286	21.47	.061	SI
>2600.	0.	3.	3.	-242862.!	-31.!	953.2	8.04	9.43	.0272	21.47	.058	SI
2848.	248.	3.	1.	204202.!	-37.!	1568.4	4.02	10.22	.0448	32.64	.146	SI
3055.	455.	3.	3.	-235662.!	-30.1	924.9	8.04	9.43	.0264	21.47	.057	SI
>3055.	0.	3.	3.	-264789.!	-33.8	1039.2	8.04	9.43	.0313	21.47	.067	SI
3272.	218.	3.	1.	239556.!	-43.4	1840.!	4.02	10.22	.0526	32.64	.172	SI
3490.	435.	3.	3.	-274402.!	-35.1	1077.!	8.04	9.43	.0331	21.47	.071	SI
>3490.	0.	3.	3.	-278679.!	-35.6	1093.7	8.04	9.43	.0339	21.47	.073	SI
3708.	218.	3.	1.	239092.!	-43.3	1836.4	4.02	10.22	.0525	32.64	.171	SI
3925.	435.	3.	3.	-245215.!	-31.3	962.4	8.04	9.43	.0277	21.47	.059	SI
>3925.	0.	3.	3.	-92942.!	-11.9	364.8	8.04	9.43	.0104	21.47	.022	SI
4078.	152.	3.	1.	67318.!	-12.2	517.1	4.02	10.22	.0148	32.64	.048	SI
4220.	295.	3.	1.	-58419.!	-10.6	448.7	4.02	10.22	.0128	32.64	.042	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 52 - Travata T1e004 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO:  $\sigma_f$  (rara)=3600. ; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A536	3	3	3	0	435.	405.	10.875	1.3	1.38	29.335
2	A537	3	3	3	0	435.	405.	10.875	1.5	1.43	37.296
3	A538	3	3	3	0	510.	480.	12.75	1.5	1.138	27.901
4	A539	3	3	3	0	360.	330.	9.	1.5	2.17	56.592
5	A540	3	3	3	0	435.	405.	10.875	1.5	1.279	30.043
6	A541	3	3	3	0	435.	405.	10.875	1.5	1.13	27.709
7	A542	3	3	3	0	435.	405.	10.875	1.5	1.296	31.784
8	A543	3	3	3	0	435.	405.	10.875	1.5	1.761	45.918
9	A544	3	3	3	0	435.	405.	10.875	1.5	1.747	45.548
10	A547	3	3	3	0	309.	279.	7.736	1.3	4.154	93.861

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-510290.	-.085	.282	-547369.	-.35	2.346	3.	.13	1.073	SI
0.	0.	3. 1.	78828.	-.01	.02	796796.	-.35	1.795	3.	.163	10.11	SI
197.	197.	3. 1.	577341.	-.075	.145	796796.	-.35	1.795	3.	.163	1.38	SI
419.	419.	3. 3.	79327.	-.007	.012	1297700.	-.35	1.512	3.	.188	16.36	SI
435.	435.	3. 3.	-604733.	-.058	.114	-1054435.	-.35	1.899	3.	.156	1.744	SI
435.	435.	3. 3.	15861.	-.001	.002	1297700.	-.35	1.512	3.	.188	81.82	SI
> 435.	0.	3. 3.	-432076.	-.041	.081	-1054435.	-.35	1.899	3.	.156	2.44	SI
435.	0.	3. 3.	73993.	-.007	.011	1297700.	-.35	1.512	3.	.188	17.54	SI
488.	53.	3. 4.	-287710.	-.033	.055	-1039699.	-.35	1.395	3.	.201	3.614	SI
488.	53.	3. 4.	201310.	-.026	.074	547697.	-.35	2.388	3.	.128	2.721	SI
632.	197.	3. 5.	382274.	-.056	.141	546809.	-.35	2.278	3.	.133	1.43	SI
839.	404.	3. 4.	-488229.	-.057	.093	-1039699.	-.35	1.395	3.	.201	2.13	SI
870.	435.	3. 6.	-537338.	-.052	.101	-1054435.	-.35	1.899	3.	.156	1.962	SI
870.	435.	3. 6.	23152.	-.002	.004	1297700.	-.35	1.512	3.	.188	56.05	SI
> 870.	0.	3. 6.	-879072.	-.087	.166	-1054435.	-.35	1.899	3.	.156	1.199	SI
885.	15.	3. 6.	7460.	-.001	.001	1297700.	-.35	1.512	3.	.188	174.	SI
901.	31.	3. 2.	84445.	-.009	.021	801560.	-.35	2.074	3.	.144	9.492	SI
1125.	255.	3. 1.	700395.	-.093	.176	796796.	-.35	1.795	3.	.163	1.138	SI
1349.	479.	3. 2.	-839308.	-.095	.16	-1047321.	-.35	1.62	3.	.178	1.248	SI
1380.	510.	3. 3.	-911186.	-.09	.172	-1054435.	-.35	1.899	3.	.156	1.157	SI
>1380.	0.	3. 3.	-379486.	-.036	.071	-1054435.	-.35	1.899	3.	.156	2.779	SI
1380.	0.	3. 3.	167356.	-.015	.025	1297700.	-.35	1.512	3.	.188	7.754	SI
1411.	31.	3. 4.	209288.	-.027	.077	547697.	-.35	2.388	3.	.128	2.617	SI
1539.	159.	3. 5.	251931.	-.037	.093	546809.	-.35	2.278	3.	.133	2.17	SI
1581.	201.	3. 5.	-4812.	-.001	.002	-546809.	-.35	2.278	3.	.133	113.6	SI
1709.	329.	3. 4.	-381894.	-.044	.073	-1039699.	-.35	1.395	3.	.201	2.722	SI
1724.	344.	3. 7.	181097.	-.016	.023	1539128.	-.35	1.268	3.	.216	8.499	SI
1740.	360.	3. 7.	-411867.	-.037	.077	-1056361.	-.35	1.987	3.	.15	2.565	SI
1740.	360.	3. 7.	156149.	-.014	.02	1539128.	-.35	1.268	3.	.216	9.857	SI
>1740.	0.	3. 7.	-891549.	-.083	.168	-1056361.	-.35	1.987	3.	.15	1.185	SI
1937.	197.	3. 9.	813035.	-.1	.156	1039699.	-.35	1.395	3.	.201	1.279	SI
2159.	419.	3. 10	11076.	-.001	.001	1775074.	-.35	1.052	3.	.25	160.3	SI
2160.	420.	3. 10	4103.	0.	0.	1775074.	-.35	1.052	3.	.25	432.6	SI

2175.	435.	3.	10	-993786.	-.089	.192	-1057775.	-.35	2.055	3.	.146	1.064	SI
>2175.	0.	3.	10	-908871.	-.08	.17	-1057775.	-.35	2.055	3.	.146	1.164	SI
2190.	15.	3.	10	41896.	-.003	.005	1775074.	-.35	1.052	3.	.25	42.37	SI
2206.	31.	3.	2.	131961.	-.014	.033	801560.	-.35	2.074	3.	.144	6.074	SI
2413.	238.	3.	1.	705240.	-.094	.177	796796.	-.35	1.795	3.	.163	1.13	SI
2610.	435.	3.	11	-852860.	-.079	.16	-1056361.	-.35	1.987	3.	.15	1.239	SI
>2610.	0.	3.	11	-811627.	-.075	.152	-1056361.	-.35	1.987	3.	.15	1.302	SI
2625.	15.	3.	11	34370.	-.003	.004	1539128.	-.35	1.268	3.	.216	44.78	SI
2641.	31.	3.	2.	-733600.	-.082	.139	-1047321.	-.35	1.62	3.	.178	1.428	SI
2641.	31.	3.	2.	111731.	-.012	.028	801560.	-.35	2.074	3.	.144	7.174	SI
2848.	238.	3.	1.	614834.	-.081	.154	796796.	-.35	1.795	3.	.163	1.296	SI
3045.	435.	3.	3.	-669906.	-.065	.126	-1054435.	-.35	1.899	3.	.156	1.574	SI
>3045.	0.	3.	3.	-458175.	-.044	.086	-1054435.	-.35	1.899	3.	.156	2.301	SI
3045.	0.	3.	3.	44099.	-.004	.007	1297700.	-.35	1.512	3.	.188	29.43	SI
3076.	31.	3.	4.	-418091.	-.048	.079	-1039699.	-.35	1.395	3.	.201	2.487	SI
3076.	31.	3.	4.	114611.	-.014	.042	547697.	-.35	2.388	3.	.128	4.779	SI
3283.	238.	3.	5.	310492.	-.045	.115	546809.	-.35	2.278	3.	.133	1.761	SI
3480.	435.	3.	12	-365893.	-.037	.069	-1051660.	-.35	1.781	3.	.164	2.874	SI
3480.	435.	3.	12	58977.	-.006	.011	1051660.	-.35	1.781	3.	.164	17.83	SI
>3480.	0.	3.	12	-369341.	-.037	.07	-1051660.	-.35	1.781	3.	.164	2.847	SI
3480.	0.	3.	12	48247.	-.005	.009	1051660.	-.35	1.781	3.	.164	21.8	SI
3511.	31.	3.	4.	-339259.	-.039	.064	-1039699.	-.35	1.395	3.	.201	3.065	SI
3511.	31.	3.	4.	114791.	-.014	.042	547697.	-.35	2.388	3.	.128	4.771	SI
3677.	197.	3.	5.	313014.	-.046	.116	546809.	-.35	2.278	3.	.133	1.747	SI
3915.	435.	3.	12	-373537.	-.038	.07	-1051660.	-.35	1.781	3.	.164	2.815	SI
3915.	435.	3.	12	65353.	-.006	.012	1051660.	-.35	1.781	3.	.164	16.09	SI
>3915.	0.	3.	12	-156197.	-.015	.029	-1051660.	-.35	1.781	3.	.164	6.733	SI
3930.	15.	3.	12	7760.	-.001	.001	1051660.	-.35	1.781	3.	.164	135.5	SI
3946.	31.	3.	4.	-138218.	-.015	.026	-1039699.	-.35	1.395	3.	.201	7.522	SI
3946.	31.	3.	4.	24664.	-.003	.009	547697.	-.35	2.388	3.	.128	22.21	SI
4030.	115.	3.	5.	131644.	-.019	.048	546809.	-.35	2.278	3.	.133	4.154	SI
4224.	309.	3.	5.	-177409.	-.025	.065	-546809.	-.35	2.278	3.	.133	3.082	SI
4224.	309.	3.	5.	38263.	-.005	.014	546809.	-.35	2.278	3.	.133	14.29	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Vel	
> 0.	0.	3.	8962.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-1158.	4455.	24411.	24577.	1.01	9.	1.75	SI
156.	156.	3.	-2947.	5099.	19541.	11285.	1.01	28.	2.5	SI
435.	435.	3.	-8737.	3948.	28335.	14044.	1.01	9.	1.	SI
> 435.	0.	3.	-1663.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	0.	3.	9085.	3948.	28335.	14044.	1.01	9.	1.	SI
488.	53.	3.	-2390.	4455.	28335.	14044.	1.01	9.	1.	SI
510.	75.	3.	-2811.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	435.	3.	-9412.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	435.	3.	762.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	9878.	3948.	28335.	14044.	1.01	9.	1.	SI
945.	75.	3.	-824.	4455.	24411.	24577.	1.01	9.	1.75	SI
1380.	510.	3.	-9964.	5613.	28335.	14044.	1.01	9.	1.	SI
>1380.	0.	3.	-2857.	3948.	28335.	14044.	1.01	9.	1.	SI
1380.	0.	3.	9803.	3948.	28335.	14044.	1.01	9.	1.	SI
1433.	53.	3.	-3574.	4455.	28335.	14044.	1.01	9.	1.	SI
1455.	75.	3.	-3988.	4455.	24411.	24577.	1.01	9.	1.75	SI
1740.	360.	3.	-9075.	3948.	28335.	14044.	1.01	9.	1.	SI
1740.	360.	3.	3021.	3948.	28335.	14044.	1.01	9.	1.	SI
>1740.	0.	3.	13486.	3948.	28335.	15799.	1.01	8.	1.	SI
1815.	75.	3.	-1214.	4455.	25469.	25279.	1.01	8.	1.6	SI
1896.	156.	3.	-4030.	5613.	19541.	13166.	1.01	24.	2.5	SI
2175.	435.	3.	-13439.	3948.	28335.	15799.	1.01	8.	1.	SI
>2175.	0.	3.	12491.	3948.	28335.	15799.	1.01	8.	1.	SI
2250.	75.	3.	-1405.	4455.	25469.	25279.	1.01	8.	1.6	SI
2331.	156.	3.	-4040.	5099.	19541.	13166.	1.01	24.	2.5	SI
2610.	435.	3.	-12567.	3948.	28335.	15799.	1.01	8.	1.	SI
>2610.	0.	3.	11867.	3948.	28335.	15799.	1.01	8.	1.	SI
2685.	75.	3.	-1483.	4455.	25469.	25279.	1.01	8.	1.6	SI
2766.	156.	3.	-3936.	5099.	19541.	12639.	1.01	25.	2.5	SI
3045.	435.	3.	-11875.	3948.	28335.	15799.	1.01	8.	1.	SI
>3045.	0.	3.	-2087.	3948.	28335.	14044.	1.01	9.	1.	SI
3045.	0.	3.	8080.	3948.	28335.	14044.	1.01	9.	1.	SI
3098.	53.	3.	-2650.	4455.	28335.	14044.	1.01	9.	1.	SI
3120.	75.	3.	-2975.	4455.	24411.	24577.	1.01	9.	1.75	SI
3480.	435.	3.	-8081.	3948.	28335.	14044.	1.01	9.	1.	SI
3480.	435.	3.	1642.	3948.	28335.	14044.	1.01	9.	1.	SI
>3480.	0.	3.	-1861.	3948.	28335.	14044.	1.01	9.	1.	SI
3480.	0.	3.	8177.	3948.	28335.	14044.	1.01	9.	1.	SI
3533.	53.	3.	-2423.	4455.	28335.	14044.	1.01	9.	1.	SI
3555.	75.	3.	-2749.	4455.	24411.	24577.	1.01	9.	1.75	SI
3915.	435.	3.	-7855.	3948.	28335.	14044.	1.01	9.	1.	SI
3915.	435.	3.	1739.	3948.	28335.	14044.	1.01	9.	1.	SI
>3915.	0.	3.	-3694.	3948.	28335.	14044.	1.01	9.	1.	SI
3915.	0.	3.	6607.	3948.	28335.	14044.	1.01	9.	1.	SI
3968.	53.	3.	-3818.	4455.	28335.	14044.	1.01	9.	1.	SI
3990.	75.	3.	-3890.	4455.	24411.	24577.	1.01	9.	1.75	SI
4070.	155.	3.	-9657.	4455.	19541.	11285.	1.01	28.	2.5	SI
4070.	155.	3.	7324.	4455.	19541.	11285.	1.01	28.	2.5	SI



4224.	309.	3.	-5893.	3948.	28335.	14044.	1.01	9.	1.	SI
4224.	309.	3.	4359.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-352574.	-60.8	2707.7	4.02	10.33	.0927	32.87	.305	SI
15.	15.	3.	1.	-310182.	-53.5	2382.2	4.02	10.33	.0772	32.87	.254	SI
31.	31.	3.	1.	-219379.	-37.8	1684.8	4.02	10.33	.0481	32.87	.158	SI
197.	197.	3.	1.	406828.	-63.5	2114.3	6.03	9.64	.077	24.94	.192	SI
435.	435.	3.	3.	-427719.	-52.2	1675.7	8.04	9.54	.0614	21.58	.133	SI
> 435.	0.	3.	3.	-297946.	-36.4	1167.3	8.04	9.54	.0372	21.58	.08	SI
632.	197.	3.	5.	269169.	-48.8	2067.4	4.02	10.22	.0625	32.64	.204	SI
870.	435.	3.	6.	-378474.	-46.2	1482.8	8.04	9.54	.0522	21.58	.113	SI
> 870.	0.	3.	6.	-619168.	-75.6	2425.8	8.04	9.54	.0972	21.58	.21	SI
1125.	255.	3.	1.	492883.	-76.9	2561.5	6.03	9.64	.0983	24.94	.245	SI
1380.	510.	3.	3.	-641798.	-78.4	2514.5	8.04	9.54	.1014	21.58	.219	SI
>1380.	0.	3.	3.	-223752.	-27.3	876.6	8.04	9.54	.025	21.58	.054	SI
1539.	159.	3.	5.	177238.	-32.1	1361.3	4.02	10.22	.0389	32.64	.127	SI
1740.	360.	3.	7.	-265737.	-31.1	1039.7	8.04	9.65	.031	21.69	.067	SI
>1740.	0.	3.	7.	-625722.	-73.2	2448.2	8.04	9.65	.098	21.69	.213	SI
1937.	197.	3.	9.	570310.	-80.7	2250.1	8.04	9.17	.0894	21.2	.19	SI
2175.	435.	3.	10.	-696707.	-78.3	2723.1	8.04	9.75	.111	21.79	.242	SI
>2175.	0.	3.	10.	-637740.	-71.7	2492.7	8.04	9.75	.1	21.79	.218	SI
2413.	238.	3.	1.	494771.	-77.2	2571.4	6.03	9.64	.0988	24.94	.246	SI
2610.	435.	3.	11.	-597955.	-69.9	2339.6	8.04	9.65	.0929	21.69	.201	SI
>2610.	0.	3.	11.	-569459.	-66.6	2228.1	8.04	9.65	.0876	21.69	.19	SI
2848.	238.	3.	1.	431204.	-67.3	2241.	6.03	9.64	.083	24.94	.207	SI
3045.	435.	3.	3.	-470060.	-57.4	1841.6	8.04	9.54	.0693	21.58	.15	SI
>3045.	0.	3.	3.	-323664.	-39.5	1268.1	8.04	9.54	.042	21.58	.091	SI
3283.	238.	3.	5.	219756.	-39.8	1687.9	4.02	10.22	.0482	32.64	.157	SI
3480.	435.	3.	12.	-255096.	-32.6	1001.2	8.04	9.43	.0295	21.47	.063	SI
>3480.	0.	3.	12.	-257502.	-32.9	1010.6	8.04	9.43	.0299	21.47	.064	SI
3677.	197.	3.	5.	221082.	-40.1	1698.1	4.02	10.22	.0485	32.64	.158	SI
3915.	435.	3.	12.	-256381.	-32.8	1006.2	8.04	9.43	.0297	21.47	.064	SI
>3915.	0.	3.	12.	-95050.	-12.1	373.	8.04	9.43	.0107	21.47	.023	SI
4070.	155.	3.	5.	94740.	-17.2	727.7	4.02	10.22	.0208	32.64	.068	SI
4224.	309.	3.	5.	-83420.	-15.1	640.7	4.02	10.22	.0183	32.64	.06	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-289035.	-49.9	2219.7	4.02	10.33	.0694	32.87	.228	SI
15.	15.	3.	1.	-253874.	-43.8	1949.7	4.02	10.33	.0566	32.87	.186	SI
31.	31.	3.	1.	-178559.	-30.8	1371.3	4.02	10.33	.0392	32.87	.129	SI
197.	197.	3.	1.	339315.	-53.	1763.4	6.03	9.64	.0603	24.94	.15	SI
435.	435.	3.	3.	-360495.	-44.	1412.4	8.04	9.54	.0489	21.58	.106	SI
> 435.	0.	3.	3.	-247896.	-30.3	971.2	8.04	9.54	.0279	21.58	.06	SI
632.	197.	3.	5.	225215.	-40.8	1729.8	4.02	10.22	.0494	32.64	.161	SI
870.	435.	3.	6.	-314051.	-38.3	1230.4	8.04	9.54	.0402	21.58	.087	SI
> 870.	0.	3.	6.	-513543.	-62.7	2012.	8.04	9.54	.0774	21.58	.167	SI
1125.	255.	3.	1.	408538.	-63.8	2123.2	6.03	9.64	.0774	24.94	.193	SI
1380.	510.	3.	3.	-532913.	-65.1	2087.9	8.04	9.54	.0811	21.58	.175	SI
>1380.	0.	3.	3.	-184523.	-22.5	722.9	8.04	9.54	.0207	21.58	.045	SI
1539.	159.	3.	5.	149459.	-27.1	1148.	4.02	10.22	.0328	32.64	.107	SI
1740.	360.	3.	7.	-218848.	-25.6	856.3	8.04	9.65	.0245	21.69	.053	SI
>1740.	0.	3.	7.	-516579.	-60.4	2021.2	8.04	9.65	.0777	21.69	.169	SI
1937.	197.	3.	9.	470408.	-66.6	1856.	8.04	9.17	.0706	21.2	.15	SI
2175.	435.	3.	10.	-575158.	-64.6	2248.1	8.04	9.75	.0884	21.79	.193	SI
>2175.	0.	3.	10.	-525887.	-59.1	2055.5	8.04	9.75	.0792	21.79	.173	SI
2413.	238.	3.	1.	408491.	-63.8	2123.	6.03	9.64	.0774	24.94	.193	SI
2610.	435.	3.	11.	-493767.	-57.8	1931.9	8.04	9.65	.0735	21.69	.159	SI
>2610.	0.	3.	11.	-468729.	-54.8	1833.9	8.04	9.65	.0688	21.69	.149	SI
2848.	238.	3.	1.	355593.	-55.5	1848.	6.03	9.64	.0643	24.94	.16	SI
3045.	435.	3.	3.	-390135.	-47.6	1528.5	8.04	9.54	.0544	21.58	.117	SI
>3045.	0.	3.	3.	-269686.	-32.9	1056.6	8.04	9.54	.032	21.58	.069	SI
3283.	238.	3.	5.	184975.	-33.5	1420.8	4.02	10.22	.0406	32.64	.133	SI
3480.	435.	3.	12.	-217254.	-27.8	852.7	8.04	9.43	.0244	21.47	.052	SI
>3480.	0.	3.	12.	-219341.	-28.	860.9	8.04	9.43	.0246	21.47	.053	SI
3718.	238.	3.	5.	185052.	-33.5	1421.3	4.02	10.22	.0406	32.64	.133	SI
3915.	435.	3.	12.	-215148.	-27.5	844.4	8.04	9.43	.0241	21.47	.052	SI
>3915.	0.	3.	12.	-85305.	-10.9	334.8	8.04	9.43	.0096	21.47	.021	SI
4070.	155.	3.	5.	91863.	-16.7	705.6	4.02	10.22	.0202	32.64	.066	SI
4224.	309.	3.	5.	-75585.	-13.7	580.6	4.02	10.22	.0166	32.64	.054	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-264077.	-45.6	2028.1	4.02	10.33	.0603	32.87	.198	SI
15.	15.	3.	1.	-231788.	-40.	1780.1	4.02	10.33	.0509	32.87	.167	SI
31.	31.	3.	1.	-162624.	-28.1	1248.9	4.02	10.33	.0357	32.87	.117	SI
197.	197.	3.	1.	312369.	-48.8	1623.4	6.03	9.64	.0536	24.94	.134	SI
435.	435.	3.	3.	-333081.	-40.7	1305.	8.04	9.54	.0438	21.58	.094	SI
> 435.	0.	3.	3.	-227603.	-27.8	891.7	8.04	9.54	.0255	21.58	.055	SI
632.	197.	3.	5.	206629.	-37.5	1587.1	4.02	10.22	.0453	32.64	.148	SI

870.	435.	3.	6.	-288850.	-35.3	1131.7	8.04	9.54	.0355	21.58	.077	SI
> 870.	0.	3.	6.	-472039.	-57.6	1849.4	8.04	9.54	.0697	21.58	.15	SI
1125.	255.	3.	1.	374997.	-58.5	1948.9	6.03	9.64	.0691	24.94	.172	SI
1380.	510.	3.	3.	-490127.	-59.8	1920.2	8.04	9.54	.0731	21.58	.158	SI
>1380.	0.	3.	3.	-169072.	-20.6	662.4	8.04	9.54	.0189	21.58	.041	SI
1539.	159.	3.	5.	137547.	-24.9	1056.5	4.02	10.22	.0302	32.64	.099	SI
1740.	360.	3.	7.	-200169.	-23.4	783.2	8.04	9.65	.0224	21.69	.049	SI
>1740.	0.	3.	7.	-473078.	-55.3	1851.	8.04	9.65	.0696	21.69	.151	SI
1937.	197.	3.	9.	430561.	-60.9	1698.8	8.04	9.17	.0631	21.2	.134	SI
2175.	435.	3.	10.	-526304.	-59.2	2057.1	8.04	9.75	.0793	21.79	.173	SI
>2175.	0.	3.	10.	-481078.	-54.1	1880.3	8.04	9.75	.0709	21.79	.154	SI
2413.	238.	3.	1.	373975.	-58.4	1943.6	6.03	9.64	.0689	24.94	.172	SI
2610.	435.	3.	11.	-452255.	-52.9	1769.5	8.04	9.65	.0657	21.69	.143	SI
>2610.	0.	3.	11.	-428468.	-50.1	1676.4	8.04	9.65	.0613	21.69	.133	SI
2848.	238.	3.	1.	325356.	-50.8	1690.9	6.03	9.64	.0568	24.94	.142	SI
3045.	435.	3.	3.	-358159.	-43.7	1403.2	8.04	9.54	.0485	21.58	.105	SI
>3045.	0.	3.	3.	-248203.	-30.3	972.4	8.04	9.54	.0279	21.58	.06	SI
3283.	238.	3.	5.	171065.	-31.	1313.9	4.02	10.22	.0375	32.64	.123	SI
3480.	435.	3.	12.	-202050.	-25.8	793.	8.04	9.43	.0227	21.47	.049	SI
>3480.	0.	3.	12.	-203972.	-26.1	800.5	8.04	9.43	.0229	21.47	.049	SI
3718.	238.	3.	5.	172998.	-31.4	1328.8	4.02	10.22	.038	32.64	.124	SI
3915.	435.	3.	12.	-198702.	-25.4	779.9	8.04	9.43	.0223	21.47	.048	SI
>3915.	0.	3.	12.	-81410.	-10.4	319.5	8.04	9.43	.0091	21.47	.02	SI
4070.	155.	3.	5.	90411.	-16.4	694.4	4.02	10.22	.0198	32.64	.065	SI
4224.	309.	3.	5.	-73100.	-13.3	561.5	4.02	10.22	.016	32.64	.052	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
3	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	3d16 +2d16
4	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
5	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
6	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	2d16 +3d16
7	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	2d16 +4d16
8	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
9	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16
10	22.12	1.843	8.04	.67	2d16 +2d16	14.07	1.173	4d16 +3d16
11	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16
12	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 53 - Travata T1e005 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinale= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L. assi	L.net.	lambda	K	r.Ar.	lam.max
1	A559	3	3	3	0	415.	365.	10.375	1.3	1.457	28.745
2	A560	3	3	3	0	455.	405.	11.375	1.5	2.227	52.318
3	A561	3	3	3	0	400.	375.	10.012	1.5	1.717	40.327
4	A563	3	3	3	0	115.	0.	2.875	1.5	5.	104.567
5	A564	3	3	3	0	355.	330.	8.875	1.5	3.577	84.03
6	A565	3	3	3	0	435.	410.	10.875	1.5	1.854	43.56
7	A568	3	3	3	0	50.	0.	1.25	1.5	5.	104.567
8	A569	3	3	3	0	390.	365.	9.75	1.5	1.823	42.826
9	A570	3	3	3	0	445.	405.	11.125	1.5	2.214	52.008
10	A571	3	3	3	0	435.	405.	10.875	1.5	5.	117.467
11	A572	3	3	3	0	435.	405.	10.875	1.3	5.	101.805

CASI DI CARICO DA MODELLO 3D

SLU

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-655657.	-.075	.163	-801560.	-.35	2.074	3.	.144	1.223	SI
0.	0.	3.	208037.	-.022	.039	1047321.	-.35	1.62	3.	.178	5.034	SI
208.	208.	3.	718575.	-.08	.136	1047321.	-.35	1.62	3.	.178	1.457	SI
289.	289.	3.	-52801.	-.006	.013	-801560.	-.35	2.074	3.	.144	15.18	SI
390.	390.	3.	273016.	-.021	.026	2025724.	-.35	1.044	3.	.251	7.42	SI
415.	415.	3.	-722469.	-.056	.109	-1311216.	-.35	1.938	3.	.153	1.815	SI
415.	415.	3.	159129.	-.012	.015	2025724.	-.35	1.044	3.	.251	12.73	SI
> 415.	0.	3.	-591391.	-.045	.089	-1311216.	-.35	1.938	3.	.153	2.217	SI
415.	0.	3.	173863.	-.013	.017	2025724.	-.35	1.044	3.	.251	11.65	SI
581.	166.	3.	-1239.	0.	0.	-547697.	-.35	2.388	3.	.128	442.1	SI
622.	207.	3.	466878.	-.054	.089	1039699.	-.35	1.395	3.	.201	2.227	SI
829.	414.	3.	-547000.	-.056	.103	-1051660.	-.35	1.781	3.	.164	1.923	SI
845.	430.	3.	243776.	-.02	.024	1987021.	-.35	.758	3.	.316	8.151	SI
870.	455.	3.	-615194.	-.051	.115	-1058857.	-.35	2.109	3.	.142	1.721	SI
870.	455.	3.	174131.	-.014	.017	1987021.	-.35	.758	3.	.316	11.41	SI
> 870.	0.	3.	-836156.	-.07	.157	-1058857.	-.35	2.109	3.	.142	1.266	SI
911.	41.	3.	-707663.	-.073	.134	-1051660.	-.35	1.781	3.	.164	1.486	SI
998.	128.	3.	-197982.	-.025	.073	-547697.	-.35	2.388	3.	.128	2.766	SI
1125.	255.	3.	605695.	-.072	.115	1039699.	-.35	1.395	3.	.201	1.717	SI
1270.	400.	3.	-512883.	-.042	.096	-1058857.	-.35	2.109	3.	.142	2.065	SI
1270.	400.	3.	106764.	-.009	.01	1987021.	-.35	.758	3.	.316	18.61	SI
>1270.	0.	3.	-20847.	-.002	.004	-1058857.	-.35	2.109	3.	.142	50.79	SI
1270.	0.	3.	949.	0.	0.	1987021.	-.35	.758	3.	.316	2094.	SI
1335.	65.	3.	15680.	-.001	.002	1987021.	-.35	.758	3.	.316	126.7	SI
1386.	115.	3.	-33261.	-.003	.006	-1058857.	-.35	2.109	3.	.142	31.84	SI
>1386.	0.	3.	-54954.	-.004	.01	-1058857.	-.35	2.109	3.	.142	19.27	SI
1386.	0.	3.	42736.	-.003	.004	1987021.	-.35	.758	3.	.316	46.5	SI
1402.	16.	3.	-54954.	-.007	.02	-547697.	-.35	2.388	3.	.128	9.966	SI
1424.	38.	3.	-147.	0.	0.	-547697.	-.35	2.388	3.	.128	3729.	SI
1530.	144.	3.	290684.	-.033	.055	1039699.	-.35	1.395	3.	.201	3.577	SI
1699.	314.	3.	-424774.	-.043	.08	-1051660.	-.35	1.781	3.	.164	2.476	SI
1740.	355.	3.	-480845.	-.04	.09	-1058857.	-.35	2.109	3.	.142	2.202	SI
1740.	355.	3.	22642.	-.002	.002	1987021.	-.35	.758	3.	.316	87.76	SI
>1740.	0.	3.	-781146.	-.065	.146	-1058857.	-.35	2.109	3.	.142	1.356	SI
1784.	44.	3.	-652989.	-.067	.123	-1051660.	-.35	1.781	3.	.164	1.611	SI
1878.	137.	3.	-208002.	-.026	.077	-547697.	-.35	2.388	3.	.128	2.633	SI
2018.	278.	3.	560741.	-.066	.107	1039699.	-.35	1.395	3.	.201	1.854	SI
2176.	435.	3.	-471654.	-.039	.088	-1058857.	-.35	2.109	3.	.142	2.245	SI
2176.	435.	3.	90809.	-.007	.009	1987021.	-.35	.758	3.	.316	21.88	SI
>2176.	0.	3.	-6310.	-.001	.001	-1058857.	-.35	2.109	3.	.142	167.8	SI
2176.	0.	3.	839.	0.	0.	1987021.	-.35	.758	3.	.316	2368.	SI
2222.	46.	3.	1545.	0.	0.	1987021.	-.35	.758	3.	.316	1286.	SI
2225.	50.	3.	748.	0.	0.	1987021.	-.35	.758	3.	.316	2657.	SI
2226.	50.	3.	-13574.	-.001	.003	-1058857.	-.35	2.109	3.	.142	78.01	SI
2226.	50.	3.	748.	0.	0.	1987021.	-.35	.758	3.	.316	2656.	SI
>2226.	0.	3.	-13574.	-.001	.003	-1058857.	-.35	2.109	3.	.142	78.01	SI
2226.	0.	3.	100902.	-.008	.01	1987021.	-.35	.758	3.	.316	19.69	SI
2242.	16.	3.	-13574.	-.002	.005	-547697.	-.35	2.388	3.	.128	40.35	SI
2367.	142.	3.	570362.	-.067	.109	1039699.	-.35	1.395	3.	.201	1.823	SI
2616.	390.	3.	-794426.	-.066	.149	-1058857.	-.35	2.109	3.	.142	1.333	SI
>2616.	0.	3.	-669533.	-.056	.125	-1058857.	-.35	2.109	3.	.142	1.581	SI
2616.	0.	3.	100885.	-.008	.01	1987021.	-.35	.758	3.	.316	19.7	SI
2657.	41.	3.	-587571.	-.06	.111	-1051660.	-.35	1.781	3.	.164	1.79	SI
2782.	166.	3.	-12636.	-.002	.005	-547697.	-.35	2.388	3.	.128	43.35	SI
2863.	248.	3.	469662.	-.055	.089	1039699.	-.35	1.395	3.	.201	2.214	SI
3060.	445.	3.	-465066.	-.038	.087	-1058857.	-.35	2.109	3.	.142	2.277	SI
3060.	445.	3.	114662.	-.009	.011	1987021.	-.35	.758	3.	.316	17.33	SI
>3060.	0.	3.	-334789.	-.027	.063	-1058857.	-.35	2.109	3.	.142	3.163	SI
3060.	0.	3.	55875.	-.004	.005	1987021.	-.35	.758	3.	.316	35.56	SI
3092.	31.	3.	-315622.	-.032	.059	-1051660.	-.35	1.781	3.	.164	3.332	SI
3217.	156.	3.	-48959.	-.006	.018	-547697.	-.35	2.388	3.	.128	11.19	SI
3380.	319.	3.	139360.	-.014	.026	1051660.	-.35	1.781	3.	.164	7.546	SI
3496.	435.	3.	-272602.	-.022	.051	-1058857.	-.35	2.109	3.	.142	3.884	SI
3496.	435.	3.	101350.	-.008	.01	1987021.	-.35	.758	3.	.316	19.61	SI
>3496.	0.	3.	-327143.	-.027	.061	-1058857.	-.35	2.109	3.	.142	3.237	SI
3496.	0.	3.	87138.	-.007	.008	1987021.	-.35	.758	3.	.316	22.8	SI
3652.	156.	3.	-15792.	-.002	.006	-547697.	-.35	2.388	3.	.128	34.68	SI
3856.	360.	3.	176624.	-.02	.033	1039699.	-.35	1.395	3.	.201	5.887	SI
3930.	435.	3.	-324431.	-.042	.12	-547697.	-.35	2.388	3.	.128	1.688	SI
3930.	435.	3.	159577.	-.018	.03	1039699.	-.35	1.395	3.	.201	6.515	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1479.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	12356.	3948.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3224.	5099.	24411.	24577.	1.01	9.	1.75	SI
167.	167.	3.	-5599.	5613.	19541.	11285.	1.01	28.	2.5	SI
415.	415.	3.	-12093.	3948.	28335.	14044.	1.01	9.	1.	SI
415.	415.	3.	288.	3948.	28335.	14044.	1.01	9.	1.	SI
> 415.	0.	3.	-2294.	3948.	28335.	14044.	1.01	9.	1.	SI
415.	0.	3.	12121.	3948.	28335.	14044.	1.01	9.	1.	SI
456.	41.	3.	-2665.	5613.	28335.	14044.	1.01	9.	1.	SI
500.	85.	3.	-3680.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	455.	3.	-11650.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	455.	3.	1610.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	-1008.	5613.	28335.	14044.	1.01	9.	1.	SI
870.	0.	3.	11026.	5613.	28335.	14044.	1.01	9.	1.	SI
955.	85.	3.	-2663.	4455.	24411.	24577.	1.01	9.	1.75	SI
1270.	400.	3.	-11349.	4455.	28335.	14044.	1.01	9.	1.	SI
1270.	400.	3.	684.	4455.	28335.	14044.	1.01	9.	1.	SI
>1270.	0.	3.	-644.	4455.	24411.	24577.	1.01	9.	1.75	SI
1270.	0.	3.	957.	4455.	24411.	24577.	1.01	9.	1.75	SI
1271.	0.	3.	-649.	4455.	28335.	14044.	1.01	9.	1.	SI
1285.	15.	3.	1631.	4455.	24411.	24577.	1.01	9.	1.75	SI
1386.	115.	3.	-1867.	4455.	24411.	24577.	1.01	9.	1.75	SI
>1386.	0.	3.	5288.	4455.	20119.	20223.	1.01	15.	2.4	SI
1446.	60.	3.	3081.	5613.	20119.	20223.	1.01	15.	2.4	SI
1656.	270.	3.	-4954.	4455.	24411.	24577.	1.01	9.	1.75	SI
1740.	355.	3.	-7314.	3948.	28335.	14044.	1.01	9.	1.	SI
>1740.	0.	3.	-2350.	5613.	28335.	14044.	1.01	9.	1.	SI
1740.	0.	3.	9941.	5613.	28335.	14044.	1.01	9.	1.	SI
2176.	435.	3.	-11309.	3948.	28335.	14044.	1.01	9.	1.	SI
2176.	435.	3.	982.	3948.	28335.	14044.	1.01	9.	1.	SI
>2176.	0.	3.	7386.	3948.	24411.	24577.	1.01	9.	1.75	SI
2226.	50.	3.	-2334.	3948.	28335.	14044.	1.01	9.	1.	SI
2226.	50.	3.	635.	3948.	28335.	14044.	1.01	9.	1.	SI
>2226.	0.	3.	7386.	3948.	20119.	20223.	1.01	15.	2.4	SI
2530.	305.	3.	-7627.	4455.	24411.	24577.	1.01	9.	1.75	SI
2616.	390.	3.	-10574.	5613.	28335.	14044.	1.01	9.	1.	SI
>2616.	0.	3.	-1854.	3948.	28335.	14044.	1.01	9.	1.	SI
2616.	0.	3.	11836.	3948.	28335.	14044.	1.01	9.	1.	SI
2657.	41.	3.	-2233.	5613.	28335.	14044.	1.01	9.	1.	SI
2700.	85.	3.	-3271.	4455.	24411.	24577.	1.01	9.	1.75	SI
3060.	445.	3.	-11419.	3948.	28335.	14044.	1.01	9.	1.	SI
3060.	445.	3.	1325.	3948.	28335.	14044.	1.01	9.	1.	SI
>3060.	0.	3.	-5003.	3948.	28335.	14044.	1.01	9.	1.	SI
3060.	0.	3.	9090.	3948.	28335.	14044.	1.01	9.	1.	SI
3136.	75.	3.	-5507.	4455.	24411.	24577.	1.01	9.	1.75	SI
3258.	197.	3.	-6533.	5613.	19541.	11285.	1.01	28.	2.5	SI
3496.	435.	3.	-8405.	3948.	28335.	14044.	1.01	9.	1.	SI
3496.	435.	3.	5436.	3948.	28335.	14044.	1.01	9.	1.	SI
>3496.	0.	3.	-3598.	3948.	28335.	14044.	1.01	9.	1.	SI
3496.	0.	3.	6567.	3948.	28335.	14044.	1.01	9.	1.	SI
3570.	75.	3.	-4102.	4455.	24411.	24577.	1.01	9.	1.75	SI
3693.	197.	3.	-5128.	5613.	19541.	11285.	1.01	28.	2.5	SI
3930.	435.	3.	-7000.	3948.	28335.	14044.	1.01	9.	1.	SI
3930.	435.	3.	2913.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-433713.	-61.3	2247.4	6.03	9.88	.0828	25.27	.209	SI
16.	16.	3.	1.	-396500.	-56.	2054.6	6.03	9.88	.0736	25.27	.186	SI
41.	41.	3.	1.	-227775.	-32.2	1180.3	6.03	9.88	.0337	25.27	.085	SI
208.	208.	3.	1.	501412.	-67.3	1972.4	8.04	9.3	.0759	21.34	.162	SI
415.	415.	3.	3.	-490125.	-49.2	1540.6	10.05	9.48	.0582	19.59	.114	SI
> 415.	0.	3.	3.	-389101.	-39.1	1223.1	10.05	9.48	.043	19.59	.084	SI
622.	207.	3.	4.	325722.	-46.1	1285.1	8.04	9.17	.0434	21.2	.092	SI
870.	455.	3.	6.	-406102.	-44.	1586.1	8.04	9.84	.0567	21.88	.124	SI
> 870.	0.	3.	6.	-582803.	-63.1	2276.2	8.04	9.84	.0896	21.88	.196	SI
1125.	255.	3.	4.	422750.	-59.8	1667.9	8.04	9.17	.0617	21.2	.131	SI
1270.	400.	3.	6.	-357828.	-38.7	1397.5	8.04	9.84	.0477	21.88	.104	SI
>1270.	0.	3.	6.	-4311.	-5.	16.8	8.04	9.84	.0005	21.88	.001	SI
1335.	65.	3.	6.	10929.	-1.1	22.1	16.08	8.16	.0006	16.04	.001	SI
1386.	115.	3.	6.	-23187.	-2.5	90.6	8.04	9.84	.0026	21.88	.006	SI
>1386.	0.	3.	6.	-38295.	-4.1	149.6	8.04	9.84	.0043	21.88	.009	SI
1530.	144.	3.	4.	204501.	-28.9	806.9	8.04	9.17	.0231	21.2	.049	SI
1740.	355.	3.	6.	-309372.	-33.5	1208.3	8.04	9.84	.0387	21.88	.085	SI
>1740.	0.	3.	6.	-549958.	-59.5	2147.9	8.04	9.84	.0834	21.88	.183	SI
2018.	278.	3.	4.	394476.	-55.8	1556.4	8.04	9.17	.0564	21.2	.119	SI
2176.	435.	3.	6.	-331966.	-35.9	1296.5	8.04	9.84	.0429	21.88	.094	SI
>2176.	0.	3.	6.	-4412.	-5.	17.2	8.04	9.84	.0005	21.88	.001	SI
2195.	19.	3.	6.	691.	-1.	1.4	16.08	8.16	0.	16.04	0.	SI

2226.	50.	3.	6.	-9291.!	-1.!	36.3!	8.04	9.84	.001	21.88	.002!	SI
>2226.	0.	3.	6.	-9291.!	-1.!	36.3!	8.04	9.84	.001	21.88	.002!	SI
2367.	142.	3.	4.	398132.!	-56.3!	1570.8!	8.04	9.17	.057	21.2	.121!	SI
2616.	390.	3.	6.	-553331.!	-59.9!	2161.1!	8.04	9.84	.0841	21.88	.184!	SI
>2616.	0.	3.	6.	-454838.!	-49.2!	1776.4!	8.04	9.84	.0658	21.88	.144!	SI
2863.	248.	3.	4.	327617.!	-46.4!	1292.6!	8.04	9.17	.0438	21.2	.093!	SI
3060.	445.	3.	6.	-308923.!	-33.4!	1206.5!	8.04	9.84	.0386	21.88	.085!	SI
>3060.	0.	3.	6.	-187998.!	-20.4!	734.2!	8.04	9.84	.021	21.88	.046!	SI
3298.	238.	3.	4.	97756.!	-13.8!	385.7!	8.04	9.17	.011	21.2	.023!	SI
3496.	435.	3.	6.	-100772.!	-10.9!	393.6!	8.04	9.84	.0112	21.88	.025!	SI
>3496.	0.	3.	6.	-120861.!	-13.1!	472.!	8.04	9.84	.0135	21.88	.03!	SI
3733.	238.	3.	4.	110792.!	-15.7!	437.1!	8.04	9.17	.0125	21.2	.026!	SI
3930.	435.	3.	4.	-101960.!	-16.8!	783.2!	4.02	10.43	.0224	33.07	.074!	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-369967.	-52.3!	1917.1!	6.03	9.88	.0671	25.27	.169!	SI
16.	16.	3.	1.	-338004.	-47.7!	1751.4!	6.03	9.88	.0592	25.27	.15!	SI
41.	41.	3.	1.	-193081.	-27.3!	1000.5!	6.03	9.88	.0286	25.27	.072!	SI
208.	208.	3.	1.	431883.!	-58.!	1698.9!	8.04	9.3	.0629	21.34	.134!	SI
415.	415.	3.	3.	-421883.!	-42.3!	1326.1!	10.05	9.48	.0479	19.59	.094!	SI
> 415.	0.	3.	3.	-332290.	-33.3!	1044.5!	10.05	9.48	.0345	19.59	.068!	SI
622.	207.	3.	4.	280412.!	-39.7!	1106.4!	8.04	9.17	.0349	21.2	.074!	SI
870.	455.	3.	6.	-348659.!	-37.7!	1361.7!	8.04	9.84	.046	21.88	.101!	SI
> 870.	0.	3.	6.	-500507.!	-54.2!	1954.8!	8.04	9.84	.0742	21.88	.162!	SI
1125.	255.	3.	4.	363984.!	-51.5!	1436.1!	8.04	9.17	.0506	21.2	.107!	SI
1270.	400.	3.	6.	-308238.	-33.4!	1203.8!	8.04	9.84	.0385	21.88	.084!	SI
>1270.	0.	3.	6.	-3683.	-.4!	14.4!	8.04	9.84	.0004	21.88	.001!	SI
1335.	65.	3.	6.	8881.!	-.9!	18.!	16.08	8.16	.0005	16.04	.001!	SI
1386.	115.	3.	6.	-18857.!	-2.!	73.6!	8.04	9.84	.0021	21.88	.005!	SI
>1386.	0.	3.	6.	-30642.!	-3.3!	119.7!	8.04	9.84	.0034	21.88	.007!	SI
1530.	144.	3.	4.	169105.!	-23.9!	667.2!	8.04	9.17	.0191	21.2	.04!	SI
1740.	355.	3.	6.	-255854.!	-27.7!	999.3!	8.04	9.84	.0287	21.88	.063!	SI
>1740.	0.	3.	6.	-457592.!	-49.5!	1787.2!	8.04	9.84	.0663	21.88	.145!	SI
2018.	278.	3.	4.	326962.!	-46.3!	1290.!	8.04	9.17	.0437	21.2	.093!	SI
2176.	435.	3.	6.	-276274.	-29.9!	1079.!	8.04	9.84	.0325	21.88	.071!	SI
>2176.	0.	3.	6.	-3591.	-.4!	14.!	8.04	9.84	.0004	21.88	.001!	SI
2195.	19.	3.	6.	553.!	-.1!	1.1!	16.08	8.16	0.	16.04	0.	SI
2226.	50.	3.	6.	-7736.!	-.8!	30.2!	8.04	9.84	.0009	21.88	.002!	SI
>2226.	0.	3.	6.	-7736.!	-.8!	30.2!	8.04	9.84	.0009	21.88	.002!	SI
2367.	142.	3.	4.	342581.!	-48.5!	1351.6!	8.04	9.17	.0466	21.2	.099!	SI
2616.	390.	3.	6.	-472610.!	-51.2!	1845.8!	8.04	9.84	.0691	21.88	.151!	SI
>2616.	0.	3.	6.	-387980.!	-42.!	1515.3!	8.04	9.84	.0533	21.88	.117!	SI
2863.	248.	3.	4.	280492.!	-39.7!	1106.7!	8.04	9.17	.0349	21.2	.074!	SI
3060.	445.	3.	6.	-265934.!	-28.8!	1038.6!	8.04	9.84	.0306	21.88	.067!	SI
>3060.	0.	3.	6.	-173695.!	-18.8!	678.4!	8.04	9.84	.0194	21.88	.042!	SI
3298.	238.	3.	4.	97989.!	-13.9!	386.6!	8.04	9.17	.011	21.2	.023!	SI
3496.	435.	3.	6.	-101942.!	-11.!	398.1!	8.04	9.84	.0114	21.88	.025!	SI
>3496.	0.	3.	6.	-121457.!	-13.2!	474.4!	8.04	9.84	.0136	21.88	.03!	SI
3733.	238.	3.	4.	111685.!	-15.8!	440.6!	8.04	9.17	.0126	21.2	.027!	SI
3930.	435.	3.	4.	-88608.!	-14.6!	680.6!	4.02	10.43	.0194	33.07	.064!	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-345216.	-48.8!	1788.8!	6.03	9.88	.061	25.27	.154!	SI
16.	16.	3.	1.	-315332.	-44.5!	1634.!	6.03	9.88	.0536	25.27	.135!	SI
41.	41.	3.	1.	-179834.	-25.4!	931.8!	6.03	9.88	.0266	25.27	.067!	SI
208.	208.	3.	1.	404127.!	-54.2!	1589.7!	8.04	9.3	.0577	21.34	.123!	SI
415.	415.	3.	3.	-394410.!	-39.6!	1239.7!	10.05	9.48	.0438	19.59	.086!	SI
> 415.	0.	3.	3.	-310380.!	-31.2!	975.6!	10.05	9.48	.0313	19.59	.061!	SI
622.	207.	3.	4.	262273.!	-37.1!	1034.8!	8.04	9.17	.0315	21.2	.067!	SI
870.	455.	3.	6.	-325685.!	-35.3!	1272.!	8.04	9.84	.0417	21.88	.091!	SI
> 870.	0.	3.	6.	-467787.!	-50.6!	1827.!	8.04	9.84	.0682	21.88	.149!	SI
1125.	255.	3.	4.	340542.!	-48.2!	1343.6!	8.04	9.17	.0462	21.2	.098!	SI
1270.	400.	3.	6.	-288402.!	-31.2!	1126.4!	8.04	9.84	.0348	21.88	.076!	SI
>1270.	0.	3.	6.	-3434.	-.4!	13.4!	8.04	9.84	.0004	21.88	.001!	SI
1335.	65.	3.	6.	8064.!	-.8!	16.3!	16.08	8.16	.0005	16.04	.001!	SI
1386.	115.	3.	6.	-17129.!	-1.9!	66.9!	8.04	9.84	.0019	21.88	.004!	SI
>1386.	0.	3.	6.	-27694.!	-3.!	108.2!	8.04	9.84	.0031	21.88	.007!	SI
1530.	144.	3.	4.	155391.!	-22.!	613.1!	8.04	9.17	.0175	21.2	.037!	SI
1740.	355.	3.	6.	-234325.!	-25.4!	915.2!	8.04	9.84	.0261	21.88	.057!	SI
>1740.	0.	3.	6.	-420950.!	-45.6!	1644.1!	8.04	9.84	.0595	21.88	.13!	SI
2018.	278.	3.	4.	300099.!	-42.5!	1184.!	8.04	9.17	.0386	21.2	.082!	SI
2176.	435.	3.	6.	-253996.!	-27.5!	992.!	8.04	9.84	.0284	21.88	.062!	SI
>2176.	0.	3.	6.	-3266.	-.4!	12.8!	8.04	9.84	.0004	21.88	.001!	SI
2195.	19.	3.	6.	498.!	-.1!	1.!	16.08	8.16	0.	16.04	0.	SI
2226.	50.	3.	6.	-7162.!	-.8!	28.!	8.04	9.84	.0008	21.88	.002!	SI
>2226.	0.	3.	6.	-7162.!	-.8!	28.!	8.04	9.84	.0008	21.88	.002!	SI
2367.	142.	3.	4.	320534.!	-45.4!	1264.7!	8.04	9.17	.0425	21.2	.09!	SI
2616.	390.	3.	6.	-440774.!	-47.7!	1721.5!	8.04	9.84	.0631	21.88	.138!	SI
>2616.	0.	3.	6.	-362140.!	-39.2!	1414.4!	8.04	9.84	.0485	21.88	.106!	SI
2863.	248.	3.	4.	261740.!	-37.!	1032.7!	8.04	9.17	.0314	21.2	.067!	SI
3060.	445.	3.	6.	-249118.!	-27.!	973.!	8.04	9.84	.0278	21.88	.061!	SI
>3060.	0.	3.	6.	-168540.!	-18.2!	658.2!	8.04	9.84	.0188	21.88	.041!	SI
3298.	238.	3.	4.	97270.!	-13.8!	383.8!	8.04	9.17	.011	21.2	.023!	SI
3496.	435.	3.	6.	-102719.!	-11.1!	401.2!	8.04	9.84	.0115	21.88	.025!	SI

>3496.	0.	13.	6.	-122732.!	-13.3	479.3	8.04	9.84	.0137	21.88	.03	SI
3733.	238.	3.	14.	111066.!	-15.7	438.2	8.04	9.17	.0125	21.2	.027	SI
3930.	435.	3.	14.	-97018.	-16.	745.2	4.02	10.43	.0213	33.07	.07	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	14.07	1.173	6.03	.503	3d16	8.04	.67	4d16
2	18.1	1.508	10.05	.838	3d16 +2d16	8.04	.67	4d16
3	26.14	2.178	10.05	.838	3d16 +2d16	16.08	1.34	4d16 +4d16
4	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16
5	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
6	24.13	2.011	8.04	.67	2d16 +2d16	16.08	1.34	4d16 +4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 54 - Travata T1e006 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinale= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σ (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A577	3	3	3	0	427.	397.	10.675	1.3	2.599	55.248
2	A576	3	3	3	0	443.	413.	11.075	1.3	2.13	45.28

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-386963.	-.053	.143	-547369.	-.35	2.346	3.	.13	1.415	SI
0.	0.	3.	1.	195154.	-.024	.049	796796.	-.35	1.795	3.	.163	4.083	SI
154.	154.	3.	1.	-18586.	-.002	.007	-547369.	-.35	2.346	3.	.13	29.45	SI
194.	194.	3.	1.	306550.	-.039	.077	796796.	-.35	1.795	3.	.163	2.599	SI
411.	411.	3.	3.	164297.	-.014	.021	1539128.	-.35	1.268	3.	.216	9.368	SI
427.	427.	3.	3.	-396042.	-.036	.074	-1056361.	-.35	1.987	3.	.15	2.667	SI
427.	427.	3.	3.	140802.	-.012	.018	1539128.	-.35	1.268	3.	.216	10.93	SI
> 427.	0.	3.	3.	-464382.	-.042	.087	-1056361.	-.35	1.987	3.	.15	2.275	SI
427.	0.	3.	3.	106930.	-.009	.014	1539128.	-.35	1.268	3.	.216	14.39	SI
669.	242.	3.	1.	374035.	-.048	.094	796796.	-.35	1.795	3.	.163	2.13	SI
870.	443.	3.	1.	-396900.	-.055	.147	-547369.	-.35	2.346	3.	.13	1.379	SI
870.	443.	3.	1.	189625.	-.024	.047	796796.	-.35	1.795	3.	.163	4.202	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1737.	3948.	28335.	14044.	1.01	9.	1.	SI

0.	0.	3.	7247.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2536.	4455.	24411.	24577.	1.01	9.	1.75	SI
194.	194.	3.	-4118.	5099.	19541.	11285.	1.01	28.	2.5	SI
427.	427.	3.	-7027.	3948.	28335.	14044.	1.01	9.	1.	SI
427.	427.	3.	1558.	3948.	28335.	14044.	1.01	9.	1.	SI
> 427.	0.	3.	-1696.	3948.	28335.	14044.	1.01	9.	1.	SI
427.	0.	3.	7366.	3948.	28335.	14044.	1.01	9.	1.	SI
502.	75.	3.	-2550.	4455.	24411.	24577.	1.01	9.	1.75	SI
586.	159.	3.	-3741.	5099.	19541.	11285.	1.01	28.	2.5	SI
870.	443.	3.	-7572.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	443.	3.	1064.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-196732.	-33.9	1510.9	4.02	10.33	.0432	32.87	.142	SI
15.	15.	3.	-173679.	-30.	1333.8	4.02	10.33	.0381	32.87	.125	SI
31.	31.	3.	-124298.	-21.4	954.6	4.02	10.33	.0273	32.87	.09	SI
194.	194.	3.	217023.	-33.9	1127.9	6.03	9.64	.0322	24.94	.08	SI
427.	427.	3.	-254543.	-29.8	995.9	8.04	9.65	.0289	21.69	.063	SI
> 427.	0.	3.	-322243.	-37.7	1260.8	8.04	9.65	.0415	21.69	.09	SI
669.	242.	3.	264739.	-41.3	1375.9	6.03	9.64	.0418	24.94	.104	SI
870.	443.	3.	-220948.	-38.1	1696.9	4.02	10.33	.0485	32.87	.159	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-159974.	-27.6	1228.6	4.02	10.33	.0351	32.87	.115	SI
15.	15.	3.	-140696.	-24.3	1080.5	4.02	10.33	.0309	32.87	.101	SI
31.	31.	3.	-99404.	-17.1	763.4	4.02	10.33	.0218	32.87	.072	SI
194.	194.	3.	183741.	-28.7	954.9	6.03	9.64	.0273	24.94	.068	SI
427.	427.	3.	-210555.	-24.6	823.8	8.04	9.65	.0235	21.69	.051	SI
> 427.	0.	3.	-270272.	-31.6	1057.5	8.04	9.65	.0318	21.69	.069	SI
669.	242.	3.	224941.	-35.1	1169.	6.03	9.64	.0334	24.94	.083	SI
870.	443.	3.	-175696.	-30.3	1349.3	4.02	10.33	.0386	32.87	.127	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-147797.	-25.5	1135.1	4.02	10.33	.0324	32.87	.107	SI
15.	15.	3.	-129947.	-22.4	998.	4.02	10.33	.0285	32.87	.094	SI
31.	31.	3.	-91714.	-15.8	704.4	4.02	10.33	.0201	32.87	.066	SI
194.	194.	3.	169609.	-26.5	881.5	6.03	9.64	.0252	24.94	.063	SI
427.	427.	3.	-192859.	-22.6	754.6	8.04	9.65	.0216	21.69	.047	SI
> 427.	0.	3.	-250003.	-29.2	978.2	8.04	9.65	.028	21.69	.061	SI
669.	242.	3.	208006.	-32.5	1081.	6.03	9.64	.0309	24.94	.077	SI
870.	443.	3.	-181923.	-31.4	1397.1	4.02	10.33	.0399	32.87	.131	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 55 - Travata T1e007 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdm<sub>max</sub>(fre.)=.4 ; wdm<sub>max</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A582	3	3	3	0	427.	377.	10.675	1.3	1.898	40.346
2	A581	3	3	3	0	423.	373.	10.575	1.3	1.542	32.786

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	1.	-583541.	-.064	.111	-1047321.	-.35	1.62	3.	.178	1.795
0.	0.	3.	1.	284276.	-.031	.071	801560.	-.35	2.074	3.	.144	2.82
128.	128.	3.	2.	-141579.	-.019	.052	-547369.	-.35	2.346	3.	.13	3.866
171.	171.	3.	2.	-4063.	-.001	.001	-547369.	-.35	2.346	3.	.13	134.7
213.	213.	3.	2.	419779.	-.054	.105	796796.	-.35	1.795	3.	.163	1.898
402.	402.	3.	3.	306016.	-.027	.039	1539128.	-.35	1.268	3.	.216	5.03
427.	427.	3.	3.	-558404.	-.051	.105	-1056361.	-.35	1.987	3.	.15	1.892
427.	427.	3.	3.	260903.	-.023	.033	1539128.	-.35	1.268	3.	.216	5.899
> 427.	0.	3.	3.	-627337.	-.057	.118	-1056361.	-.35	1.987	3.	.15	1.684
427.	0.	3.	3.	195040.	-.017	.025	1539128.	-.35	1.268	3.	.216	7.891
554.	127.	3.	2.	-108822.	-.015	.04	-547369.	-.35	2.346	3.	.13	5.03
638.	212.	3.	2.	516574.	-.067	.129	796796.	-.35	1.795	3.	.163	1.542
850.	423.	3.	1.	-555972.	-.061	.105	-1047321.	-.35	1.62	3.	.178	1.884
850.	423.	3.	1.	269954.	-.03	.067	801560.	-.35	2.074	3.	.144	2.969

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-1677.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	9807.	3948.	28335.	14044.	1.01	9.	1.
85.	85.	3.	-2801.	4455.	24411.	24577.	1.01	9.	1.75
213.	213.	3.	-5207.	5099.	19541.	11285.	1.01	28.	2.5
427.	427.	3.	-8737.	3948.	28335.	14044.	1.01	9.	1.
427.	427.	3.	1812.	3948.	28335.	14044.	1.01	9.	1.
> 427.	0.	3.	-2381.	3948.	28335.	14044.	1.01	9.	1.
427.	0.	3.	9663.	3948.	28335.	14044.	1.01	9.	1.
468.	41.	3.	-2717.	5099.	28335.	14044.	1.01	9.	1.
512.	85.	3.	-3637.	4455.	24411.	24577.	1.01	9.	1.75
850.	423.	3.	-10191.	3948.	28335.	14044.	1.01	9.	1.
850.	423.	3.	806.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
25.	25.	3.	1.	-233949.	-31.4	920.3	8.04	9.3	.0263	21.34	.056
41.	41.	3.	1.	-166097.	-22.3	653.4	8.04	9.3	.0187	21.34	.04
213.	213.	3.	2.	292951.	-45.7	1522.5	6.03	9.64	.0488	24.94	.122
427.	427.	3.	3.	-299748.	-35.1	1172.8	8.04	9.65	.0373	21.69	.081
> 427.	0.	3.	3.	-402750.	-47.1	1575.8	8.04	9.65	.0565	21.69	.123
638.	212.	3.	2.	360509.	-56.3	1873.6	6.03	9.64	.0655	24.94	.163
850.	423.	3.	1.	-293281.	-39.4	1153.7	8.04	9.3	.037	21.34	.079

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
25.	25.	3.	1.	-199133.	-26.7	783.3	8.04	9.3	.0224	21.34	.048
41.	41.	3.	1.	-139839.	-18.8	550.1	8.04	9.3	.0157	21.34	.034
213.	213.	3.	2.	258105.	-40.3	1341.4	6.03	9.64	.0402	24.94	.1
427.	427.	3.	3.	-252342.	-29.5	987.3	8.04	9.65	.0285	21.69	.062
> 427.	0.	3.	3.	-348369.	-40.8	1363.	8.04	9.65	.0464	21.69	.101
638.	212.	3.	2.	317831.	-49.6	1651.8	6.03	9.64	.055	24.94	.137
850.	423.	3.	1.	-245674.	-33.	966.4	8.04	9.3	.028	21.34	.06

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
25.	25.	3.	1.	-187858.	-25.2	739.	8.04	9.3	.0211	21.34	.045
41.	41.	3.	1.	-131776.	-17.7	518.4	8.04	9.3	.0148	21.34	.032



213.	213.	3.	2.	244174.	!	-38.1	!	1269.	!	6.03	9.64	.0367	24.94	.092	SI
427.	427.	3.	3.	-234359.	!	-27.4	!	917.	!	8.04	9.65	.0262	21.69	.057	SI
> 427.	0.	3.	3.	-328278.	!	-38.4	!	1284.4	!	8.04	9.65	.0426	21.69	.092	SI
638.	212.	3.	2.	300747.	!	-47.	!	1563.	!	6.03	9.64	.0507	24.94	.127	SI
850.	423.	3.	1.	-228823.	!	-30.7	!	900.1	!	8.04	9.3	.0257	21.34	.055	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
2	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 56 - Travata T1e008 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A518	3	3	3	0	400.	350.	10.	1.3	1.241	28.041
2	A548	3	3	3	0	555.	515.	13.875	1.3	1.832	41.407

CASI DI CARICO DA MODELLO 3D

SLU			RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
1.	SLU	1.	15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
2.	SLU VENTOX	2.	16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
3.	SLU VENTOY	2.	17.	Rara VentoY	2.	20.	Frequente VentoY	2.			
6.	SLU con SISMAY PRINC16										
7.	SLU con SISMAY PRINC16										

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-676364.	-.081	.129	-1039699.	-.35	1.395	3.	.201	1.537	SI
0.	0.	3.	1.	383626.	-.05	.141	547697.	-.35	2.388	3.	.128	1.428	SI
85.	85.	3.	1.	441363.	-.057	.163	547697.	-.35	2.388	3.	.128	1.241	SI
238.	238.	3.	2.	-5553.	-.001	.002	-546809.	-.35	2.278	3.	.133	98.47	SI
359.	359.	3.	3.	379859.	-.038	.072	1051660.	-.35	1.781	3.	.164	2.769	SI
400.	400.	3.	3.	-687748.	-.071	.13	-1051660.	-.35	1.781	3.	.164	1.529	SI
400.	400.	3.	3.	327302.	-.033	.062	1051660.	-.35	1.781	3.	.164	3.213	SI
> 400.	0.	3.	3.	-545881.	-.056	.103	-1051660.	-.35	1.781	3.	.164	1.927	SI
400.	0.	3.	3.	165648.	-.016	.031	1051660.	-.35	1.781	3.	.164	6.349	SI
441.	41.	3.	1.	-500332.	-.059	.095	-1039699.	-.35	1.395	3.	.201	2.078	SI
441.	41.	3.	1.	218465.	-.028	.08	547697.	-.35	2.388	3.	.128	2.507	SI
792.	392.	3.	2.	-81327.	-.012	.03	-546809.	-.35	2.278	3.	.133	6.724	SI
792.	392.	3.	2.	298408.	-.044	.11	546809.	-.35	2.278	3.	.133	1.832	SI
955.	555.	3.	1.	-485537.	-.057	.092	-1039699.	-.35	1.395	3.	.201	2.141	SI
955.	555.	3.	1.	215998.	-.028	.08	547697.	-.35	2.388	3.	.128	2.536	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	-916.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	10009.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	-1757.	4455.	28335.	14044.	1.01	9.	1.	SI
85.	85.	-2243.	4455.	24411.	24577.	1.01	9.	1.75	SI
400.	400.	-8657.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	400.	1162.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	-1568.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	5507.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	-1712.	4455.	28335.	14044.	1.01	9.	1.	SI
485.	85.	-2108.	4455.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	-6205.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	509.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
25.	25.	3.	-221256.	-31.3	873.	8.04	9.17	.0249	21.2	.053	SI
41.	41.	3.	-145384.	-20.6	573.6	8.04	9.17	.0164	21.2	.035	SI
200.	200.	3.	309950.	-56.2	2380.7	4.02	10.22	.0775	32.64	.253	SI
400.	400.	3.	-323062.	-41.3	1267.9	8.04	9.43	.0422	21.47	.091	SI
> 400.	0.	3.	-258736.	-33.1	1015.5	8.04	9.43	.0302	21.47	.065	SI
704.	304.	3.	208757.	-37.8	1603.4	4.02	10.22	.0458	32.64	.15	SI
955.	555.	3.	-190518.	-27.	751.7	8.04	9.17	.0215	21.2	.046	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
25.	25.	3.	-177012.	-25.	698.4	8.04	9.17	.02	21.2	.042	SI
41.	41.	3.	-112479.	-15.9	443.8	8.04	9.17	.0127	21.2	.027	SI
200.	200.	3.	268502.	-48.7	2062.3	4.02	10.22	.0623	32.64	.203	SI
400.	400.	3.	-272258.	-34.8	1068.5	8.04	9.43	.0327	21.47	.07	SI
> 400.	0.	3.	-244113.	-31.2	958.1	8.04	9.43	.0274	21.47	.059	SI
704.	304.	3.	210393.	-38.1	1616.	4.02	10.22	.0462	32.64	.151	SI
955.	555.	3.	-177998.	-25.2	702.3	8.04	9.17	.0201	21.2	.043	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
25.	25.	3.	-163355.	-23.1	644.5	8.04	9.17	.0184	21.2	.039	SI
41.	41.	3.	-102992.	-14.6	406.3	8.04	9.17	.0116	21.2	.025	SI
200.	200.	3.	254806.	-46.2	1957.1	4.02	10.22	.0573	32.64	.187	SI
400.	400.	3.	-252745.	-32.3	992.	8.04	9.43	.0291	21.47	.062	SI
> 400.	0.	3.	-241092.	-30.8	946.2	8.04	9.43	.027	21.47	.058	SI
704.	304.	3.	210395.	-38.1	1616.	4.02	10.22	.0462	32.64	.151	SI
955.	555.	3.	-173886.	-24.6	686.1	8.04	9.17	.0196	21.2	.042	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	12.06	1.005	8.04	.67	2d16	4.02	.335	2d16
2	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 57 - Travata T1e009 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam. | Descriz. | S.ini | Sez. | S.fin | Incl. | L.assi | L.net. | lambda | K | r.Ar. | lam.max |

1	A519	3	3	3	0	400.	350.	10.	1.3	1.298	27.589
2	A549	3	3	3	0	555.	515.	13.875	1.3	2.859	64.607

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAY PRINC16	6.
7.	SLU con SISMAY PRINC16	6.

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-710407.	-.079	.135	-1047321.	-.35	1.62	3.	.178	1.474	SI
0.	0.	3.	261503.	-.029	.065	801560.	-.35	2.074	3.	.144	3.065	SI
123.	123.	3.	-123724.	-.017	.046	-547369.	-.35	2.346	3.	.13	4.424	SI
200.	200.	3.	613866.	-.081	.154	796796.	-.35	1.795	3.	.163	1.298	SI
277.	277.	3.	-58043.	-.008	.021	-547369.	-.35	2.346	3.	.13	9.43	SI
359.	359.	3.	380749.	-.036	.058	1297700.	-.35	1.512	3.	.188	3.408	SI
400.	400.	3.	-582540.	-.056	.11	-1054435.	-.35	1.899	3.	.156	1.81	SI
400.	400.	3.	266131.	-.025	.04	1297700.	-.35	1.512	3.	.188	4.876	SI
> 400.	0.	3.	-347940.	-.033	.065	-1054435.	-.35	1.899	3.	.156	3.031	SI
400.	0.	3.	147781.	-.014	.022	1297700.	-.35	1.512	3.	.188	8.781	SI
441.	41.	3.	-324803.	-.037	.062	-1039699.	-.35	1.395	3.	.201	3.201	SI
441.	41.	3.	147451.	-.019	.054	547697.	-.35	2.388	3.	.128	3.714	SI
748.	348.	3.	-43933.	-.006	.016	-546809.	-.35	2.278	3.	.133	12.45	SI
939.	539.	3.	191564.	-.024	.071	547697.	-.35	2.388	3.	.128	2.859	SI
955.	555.	3.	-311537.	-.036	.059	-1039699.	-.35	1.395	3.	.201	3.337	SI
955.	555.	3.	191564.	-.024	.071	547697.	-.35	2.388	3.	.128	2.859	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-544.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	12090.	3948.	28335.	14044.	1.01	9.	1.
85.	85.	3.	-2264.	4455.	24411.	24577.	1.01	9.	1.75
162.	162.	3.	-4462.	5099.	19541.	11285.	1.01	28.	2.5
400.	400.	3.	-10577.	3948.	28335.	14044.	1.01	9.	1.
400.	400.	3.	624.	3948.	28335.	14044.	1.01	9.	1.
> 400.	0.	3.	-3235.	3948.	28335.	14044.	1.01	9.	1.
400.	0.	3.	3910.	3948.	28335.	14044.	1.01	9.	1.
441.	41.	3.	-3286.	4455.	28335.	14044.	1.01	9.	1.
485.	85.	3.	-3427.	4455.	24411.	24577.	1.01	9.	1.75
955.	555.	3.	-4891.	3948.	28335.	14044.	1.01	9.	1.
955.	555.	3.	2125.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-474590.	-63.7	1866.9	8.04	9.3	.0709	21.34	.151	SI
25.	25.	3.	-386271.	-51.8	1519.5	8.04	9.3	.0544	21.34	.116	SI
41.	41.	3.	-272763.	-36.6	1073.	8.04	9.3	.0331	21.34	.071	SI
200.	200.	3.	435536.	-68.	2263.5	6.03	9.64	.0841	24.94	.21	SI
400.	400.	3.	-348895.	-42.6	1366.9	8.04	9.54	.0467	21.58	.101	SI
> 400.	0.	3.	-118263.	-14.4	463.3	8.04	9.54	.0132	21.58	.029	SI
704.	304.	3.	75267.	-13.6	578.1	4.02	10.22	.0165	32.64	.054	SI
955.	555.	3.	-80946.	-11.5	319.4	8.04	9.17	.0091	21.2	.019	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-374516.	-50.3	1473.2	8.04	9.3	.0522	21.34	.111	SI
25.	25.	3.	-302677.	-40.6	1190.7	8.04	9.3	.0387	21.34	.083	SI
41.	41.	3.	-210351.	-28.2	827.5	8.04	9.3	.0236	21.34	.05	SI
200.	200.	3.	359445.	-56.1	1868.1	6.03	9.64	.0653	24.94	.163	SI
400.	400.	3.	-280436.	-34.2	1098.7	8.04	9.54	.034	21.58	.073	SI
> 400.	0.	3.	-103493.	-12.6	405.5	8.04	9.54	.0116	21.58	.025	SI
704.	304.	3.	74814.	-13.6	574.6	4.02	10.22	.0164	32.64	.054	SI
955.	555.	3.	-65330.	-9.2	257.8	8.04	9.17	.0074	21.2	.016	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-338840.	-45.5	1332.9	8.04	9.3	.0455	21.34	.097	SI
25.	25.	3.	1.	-273307.	-36.7	1075.1	8.04	9.3	.0332	21.34	.071	SI
41.	41.	3.	1.	-189083.	-25.4	743.8	8.04	9.3	.0213	21.34	.045	SI
200.	200.	3.	2.	329106.	-51.4	1710.4	6.03	9.64	.0578	24.94	.144	SI
400.	400.	3.	3.	-253967.	-31.	995.	8.04	9.54	.029	21.58	.063	SI
> 400.	0.	3.	3.	-100162.	-12.2	392.4	8.04	9.54	.0112	21.58	.024	SI
704.	304.	3.	5.	74865.	-13.6	575.	4.02	10.22	.0164	32.64	.054	SI
955.	555.	3.	4.	-60649.	-8.6	239.3	8.04	9.17	.0068	21.2	.014	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	14.07	1.173	8.04	.67	2d16	6.03	.503	3d16
2	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
3	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	3d16 +2d16
4	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
5	8.04	.67	4.02	.335	2d16	4.02	.335	2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 58 - Travata T1e010 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogenein= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A495	3	3	3	0	415.	375.	10.375	1.3	2.446	55.27
2	A500	3	3	3	0	525.	475.	13.125	1.5	1.382	36.039
3	A532	3	3	3	0	400.	350.	10.	1.5	2.071	53.992
4	A550	3	3	3	0	555.	515.	13.875	1.3	2.839	64.146

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	16
7.	SLU con SISMAY PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-244782.	-.035	.09	-546809.	-.35	2.278	3.	.133	2.234	SI
0.	0.	3.	1.	223564.	-.032	.082	546809.	-.35	2.278	3.	.133	2.446	SI
160.	160.	3.	1.	-23291.	-.003	.009	-546809.	-.35	2.278	3.	.133	23.48	SI
330.	330.	3.	2.	-230408.	-.026	.044	-1039699.	-.35	1.395	3.	.201	4.512	SI
330.	330.	3.	2.	111185.	-.014	.041	547697.	-.35	2.388	3.	.128	4.926	SI
374.	374.	3.	2.	-337481.	-.039	.064	-1039699.	-.35	1.395	3.	.201	3.081	SI
390.	390.	3.	3.	111519.	-.011	.021	1051660.	-.35	1.781	3.	.164	9.43	SI
415.	415.	3.	3.	-369397.	-.037	.07	-1051660.	-.35	1.781	3.	.164	2.847	SI
415.	415.	3.	3.	107238.	-.011	.02	1051660.	-.35	1.781	3.	.164	9.807	SI
> 415.	0.	3.	3.	-459164.	-.047	.086	-1051660.	-.35	1.781	3.	.164	2.29	SI
415.	0.	3.	3.	143729.	-.014	.027	1051660.	-.35	1.781	3.	.164	7.317	SI

478.	63.	3.	2.	-333041.	-.038	.063	-1039699.	-.35	1.395	3.	.201	3.122	SI
478.	63.	3.	2.	224115.	-.029	.083	547697.	-.35	2.388	3.	.128	2.444	SI
589.	174.	3.	1.	-28831.	-.004	.011	-546809.	-.35	2.278	3.	.133	18.97	SI
678.	262.	3.	1.	395610.	-.059	.146	546809.	-.35	2.278	3.	.133	1.382	SI
940.	525.	3.	3.	-483546.	-.049	.091	-1051660.	-.35	1.781	3.	.164	2.175	SI
940.	525.	3.	3.	175883.	-.017	.033	1051660.	-.35	1.781	3.	.164	5.979	SI
> 940.	0.	3.	3.	-337010.	-.034	.063	-1051660.	-.35	1.781	3.	.164	3.121	SI
940.	0.	3.	3.	216430.	-.021	.041	1051660.	-.35	1.781	3.	.164	4.859	SI
981.	41.	3.	2.	-285292.	-.033	.054	-1039699.	-.35	1.395	3.	.201	3.644	SI
981.	41.	3.	2.	200405.	-.025	.074	547697.	-.35	2.388	3.	.128	2.733	SI
1025.	85.	3.	2.	-139114.	-.016	.026	-1039699.	-.35	1.395	3.	.201	7.474	SI
1217.	277.	3.	1.	-414502.	-.061	.153	-546809.	-.35	2.278	3.	.133	1.319	SI
1324.	384.	3.	3.	507862.	-.052	.096	1051660.	-.35	1.781	3.	.164	2.071	SI
1340.	400.	3.	3.	-273291.	-.027	.051	-1051660.	-.35	1.781	3.	.164	3.848	SI
1340.	400.	3.	3.	507862.	-.052	.096	1051660.	-.35	1.781	3.	.164	2.071	SI
>1340.	0.	3.	3.	-320266.	-.032	.06	-1051660.	-.35	1.781	3.	.164	3.284	SI
1340.	0.	3.	3.	163070.	-.016	.031	1051660.	-.35	1.781	3.	.164	6.449	SI
1381.	41.	3.	2.	-297775.	-.034	.056	-1039699.	-.35	1.395	3.	.201	3.492	SI
1381.	41.	3.	2.	162403.	-.021	.06	547697.	-.35	2.388	3.	.128	3.372	SI
1557.	217.	3.	1.	-30555.	-.004	.011	-546809.	-.35	2.278	3.	.133	17.9	SI
1879.	539.	3.	1.	192629.	-.028	.071	546809.	-.35	2.278	3.	.133	2.839	SI
1895.	555.	3.	1.	-305183.	-.045	.113	-546809.	-.35	2.278	3.	.133	1.792	SI
1895.	555.	3.	1.	192629.	-.028	.071	546809.	-.35	2.278	3.	.133	2.839	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2994.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	4765.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3310.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3310.	4455.	24411.	24577.	1.01	9.	1.75	SI
415.	415.	3.	-4968.	3948.	28335.	14044.	1.01	9.	1.	SI
415.	415.	3.	2581.	3948.	28335.	14044.	1.01	9.	1.	SI
> 415.	0.	3.	-1495.	3948.	28335.	14044.	1.01	9.	1.	SI
415.	0.	3.	7000.	3948.	28335.	14044.	1.01	9.	1.	SI
456.	41.	3.	-1682.	4455.	28335.	14044.	1.01	9.	1.	SI
500.	85.	3.	-2194.	4455.	24411.	24577.	1.01	9.	1.75	SI
940.	525.	3.	-7032.	3948.	28335.	14044.	1.01	9.	1.	SI
940.	525.	3.	880.	3948.	28335.	14044.	1.01	9.	1.	SI
> 940.	0.	3.	-4300.	3948.	28335.	14044.	1.01	9.	1.	SI
940.	0.	3.	6999.	3948.	28335.	14044.	1.01	9.	1.	SI
981.	41.	3.	-4563.	4455.	28335.	14044.	1.01	9.	1.	SI
1025.	85.	3.	-5283.	4455.	24411.	24577.	1.01	9.	1.75	SI
1178.	238.	3.	-7794.	4455.	19541.	12639.	1.01	25.	2.5	SI
1217.	277.	3.	9693.	4455.	19541.	12639.	1.01	25.	2.5	SI
1340.	400.	3.	-4455.	3948.	28335.	14044.	1.01	9.	1.	SI
1340.	400.	3.	8198.	3948.	28335.	14044.	1.01	9.	1.	SI
>1340.	0.	3.	-1831.	3948.	28335.	14044.	1.01	9.	1.	SI
1340.	0.	3.	3904.	3948.	28335.	14044.	1.01	9.	1.	SI
1381.	41.	3.	-1883.	4455.	28335.	14044.	1.01	9.	1.	SI
1425.	85.	3.	-2024.	4455.	24411.	24577.	1.01	9.	1.75	SI
1895.	555.	3.	-3488.	3948.	28335.	14044.	1.01	9.	1.	SI
1895.	555.	3.	2119.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
0.	0.	3.	1.	12862.	-2.3	98.8	4.02	10.22	.0028	32.64	.009	SI
15.	15.	3.	1.	23017.	-4.2	176.8	4.02	10.22	.0051	32.64	.016	SI
160.	160.	3.	1.	71075.	-12.9	545.9	4.02	10.22	.0156	32.64	.051	SI
415.	415.	3.	3.	-182864.	-23.4	717.7	8.04	9.43	.0205	21.47	.044	SI
> 415.	0.	3.	3.	-307515.	-39.3	1206.9	8.04	9.43	.0393	21.47	.084	SI
678.	262.	3.	1.	278741.	-50.5	2141.	4.02	10.22	.066	32.64	.216	SI
940.	525.	3.	3.	-326879.	-41.8	1282.9	8.04	9.43	.0429	21.47	.092	SI
> 940.	0.	3.	3.	-122181.	-15.6	479.5	8.04	9.43	.0137	21.47	.029	SI
1217.	277.	3.	1.	-287436.	-52.1	2207.7	4.02	10.22	.0692	32.64	.226	SI
1340.	400.	3.	3.	-45413.	-5.8	178.2	8.04	9.43	.0051	21.47	.011	SI
1340.	400.	3.	3.	156539.	-20.	614.4	8.04	9.43	.0176	21.47	.038	SI
>1340.	0.	3.	3.	-96509.	-12.3	378.8	8.04	9.43	.0108	21.47	.023	SI
1644.	304.	3.	1.	75044.	-13.6	576.4	4.02	10.22	.0165	32.64	.054	SI
1895.	555.	3.	1.	-79312.	-14.4	609.2	4.02	10.22	.0174	32.64	.057	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-49067.	-8.9	376.9	4.02	10.22	.0108	32.64	.035	SI
16.	16.	3.	1.	-48167.	-8.7	370.	4.02	10.22	.0106	32.64	.035	SI
160.	160.	3.	1.	70440.	-12.8	541.	4.02	10.22	.0155	32.64	.05	SI
415.	415.	3.	3.	-137604.	-17.6	540.1	8.04	9.43	.0154	21.47	.033	SI
> 415.	0.	3.	3.	-206657.	-26.4	811.1	8.04	9.43	.0232	21.47	.05	SI
678.	262.	3.	1.	186087.	-33.7	1429.3	4.02	10.22	.0408	32.64	.133	SI
940.	525.	3.	3.	-198410.	-25.4	778.7	8.04	9.43	.0222	21.47	.048	SI
> 940.	0.	3.	3.	-77413.	-9.9	303.8	8.04	9.43	.0087	21.47	.019	SI
1217.	277.	3.	1.	-252667.	-45.8	1940.7	4.02	10.22	.0565	32.64	.184	SI

1340.	400.	3.	3.	-36532.	-4.7	143.4	8.04	9.43	.0041	21.47	.009	SI
1340.	400.	3.	3.	114204.	-14.6	448.2	8.04	9.43	.0128	21.47	.027	SI
>1340.	0.	3.	3.	-81647.	-10.4	320.4	8.04	9.43	.0092	21.47	.02	SI
1644.	304.	3.	1.	74944.	-13.6	575.6	4.02	10.22	.0164	32.64	.054	SI
1895.	555.	3.	1.	-61619.	-11.2	473.3	4.02	10.22	.0135	32.64	.044	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-49153.	-8.9	377.5	4.02	10.22	.0108	32.64	.035	SI
16.	16.	3.	1.	-48259.	-8.7	370.7	4.02	10.22	.0106	32.64	.035	SI
160.	160.	3.	1.	70750.	-12.8	543.4	4.02	10.22	.0155	32.64	.051	SI
415.	415.	3.	3.	-132707.	-17.	520.8	8.04	9.43	.0149	21.47	.032	SI
> 415.	0.	3.	3.	-199663.	-25.5	783.6	8.04	9.43	.0224	21.47	.048	SI
678.	262.	3.	1.	183288.	-33.2	1407.8	4.02	10.22	.0402	32.64	.131	SI
940.	525.	3.	3.	-190044.	-24.3	745.9	8.04	9.43	.0213	21.47	.046	SI
> 940.	0.	3.	3.	-68525.	-8.8	268.9	8.04	9.43	.0077	21.47	.016	SI
> 1217.	277.	3.	1.	-238719.	-43.3	1833.6	4.02	10.22	.0524	32.64	.171	SI
1340.	400.	3.	3.	-33336.	-4.3	130.8	8.04	9.43	.0037	21.47	.008	SI
1340.	400.	3.	3.	101997.	-13.	400.3	8.04	9.43	.0114	21.47	.025	SI
>1340.	0.	3.	3.	-78827.	-10.1	309.4	8.04	9.43	.0088	21.47	.019	SI
1644.	304.	3.	1.	74856.	-13.6	575.	4.02	10.22	.0164	32.64	.054	SI
1895.	555.	3.	1.	-65366.	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 38 - Travata Tt009 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A348	3	3	3	0	426.	386.	10.662	1.3	1.862	42.079
2	A368	3	3	3	0	570.	530.	14.25	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

SLU			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
1.	SLU	1.	18.	Frequente	1.	21.	Quasi Perm	1.
2.	SLU VENTOX	2.	19.	Frequente Ventox	2.			
3.	SLU VENTYO	2.	20.	Frequente Ventoy	2.			
6.	SLU con SISMAX PRINC16							
7.	SLU con SISMAX PRINC16							

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-303257.	-.044	.112	-546809.	-.35	2.278	3.	.133	1.803	SI

0.	0.	3.	1.	16041.	-.002	.006	546809.	-.35	2.278	3.	.133	34.09	SI
208.	208.	3.	1.	293646.	-.043	.108	546809.	-.35	2.278	3.	.133	1.862	SI
341.	341.	3.	2.	-147379.	-.017	.028	-1039699.	-.35	1.395	3.	.201	7.055	SI
341.	341.	3.	2.	112843.	-.014	.042	547697.	-.35	2.388	3.	.128	4.854	SI
401.	401.	3.	3.	206025.	-.02	.039	1051660.	-.35	1.781	3.	.164	5.105	SI
426.	426.	3.	3.	-402271.	-.041	.076	-1051660.	-.35	1.781	3.	.164	2.614	SI
426.	426.	3.	3.	238909.	-.024	.045	1051660.	-.35	1.781	3.	.164	4.402	SI
>	426.	0.	3.	-257641.	-.026	.048	-1051660.	-.35	1.781	3.	.164	4.082	SI
426.	0.	3.	3.	21444.	-.002	.004	1051660.	-.35	1.781	3.	.164	49.04	SI
468.	41.	3.	2.	-239317.	-.027	.045	-1039699.	-.35	1.395	3.	.201	4.344	SI
468.	41.	3.	2.	41763.	-.005	.015	547697.	-.35	2.388	3.	.128	13.11	SI
921.	495.	3.	1.	106545.	-.015	.039	546809.	-.35	2.278	3.	.133	5.132	SI
996.	570.	3.	1.	-160746.	-.023	.059	-546809.	-.35	2.278	3.	.133	3.402	SI
996.	570.	3.	1.	97729.	-.014	.036	546809.	-.35	2.278	3.	.133	5.595	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
>	0.	0.	3.	-1199.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6572.	3948.	28335.	14044.	1.01	9.	1.	SI	
75.	75.	3.	-2080.	4455.	28335.	14044.	1.01	9.	1.	SI	
75.	75.	3.	-2080.	4455.	24411.	24577.	1.01	9.	1.75	SI	
426.	426.	3.	-9749.	3948.	28335.	14044.	1.01	9.	1.	SI	
426.	426.	3.	5635.	3948.	28335.	14044.	1.01	9.	1.	SI	
>	426.	0.	-2023.	3948.	28335.	14044.	1.01	9.	1.	SI	
426.	0.	3.	3828.	3948.	28335.	14044.	1.01	9.	1.	SI	
468.	41.	3.	-2074.	4455.	28335.	14044.	1.01	9.	1.	SI	
511.	85.	3.	-2211.	4455.	24411.	24577.	1.01	9.	1.75	SI	
996.	570.	3.	-3683.	3948.	28335.	14044.	1.01	9.	1.	SI	
996.	570.	3.	2043.	3948.	28335.	14044.	1.01	9.	1.	SI	

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
>	0.	0.	3.	1.	-213614.	-38.7	1640.7	4.02	10.22	.0469	32.64	.153	SI
15.	15.	3.	1.	-187533.	-34.	1440.4	4.02	10.22	.0412	32.64	.134	SI	
31.	31.	3.	1.	-131669.	-23.9	1011.3	4.02	10.22	.0289	32.64	.094	SI	
208.	208.	3.	1.	206997.	-37.5	1589.9	4.02	10.22	.0454	32.64	.148	SI	
426.	426.	3.	3.	-201381.	-25.7	790.4	8.04	9.43	.0226	21.47	.048	SI	
>	426.	0.	3.	-147183.	-18.8	577.7	8.04	9.43	.0165	21.47	.035	SI	
785.	358.	3.	1.	74538.	-13.5	572.5	4.02	10.22	.0164	32.64	.053	SI	
996.	570.	3.	1.	-65344.	-11.8	501.9	4.02	10.22	.0143	32.64	.047	SI	

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
>	0.	0.	3.	1.	-176185.	-31.9	1353.2	4.02	10.22	.0387	32.64	.126	SI
15.	15.	3.	1.	-154318.	-28.	1185.3	4.02	10.22	.0339	32.64	.111	SI	
31.	31.	3.	1.	-107480.	-19.5	825.5	4.02	10.22	.0236	32.64	.077	SI	
208.	208.	3.	1.	176127.	-31.9	1352.8	4.02	10.22	.0387	32.64	.126	SI	
426.	426.	3.	3.	-154279.	-19.7	605.5	8.04	9.43	.0173	21.47	.037	SI	
>	426.	0.	3.	-125505.	-16.	492.6	8.04	9.43	.0141	21.47	.03	SI	
785.	358.	3.	1.	75180.	-13.6	577.4	4.02	10.22	.0165	32.64	.054	SI	
996.	570.	3.	1.	-65344.	-11.8	501.9	4.02	10.22	.0143	32.64	.047	SI	

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
>	0.	0.	3.	1.	-161340.	-29.2	1239.2	4.02	10.22	.0354	32.64	.116	SI
15.	15.	3.	1.	-141166.	-25.6	1084.3	4.02	10.22	.031	32.64	.101	SI	
31.	31.	3.	1.	-97953.	-17.8	752.4	4.02	10.22	.0215	32.64	.07	SI	
208.	208.	3.	1.	162573.	-29.5	1248.7	4.02	10.22	.0357	32.64	.116	SI	
426.	426.	3.	3.	-140076.	-17.9	549.8	8.04	9.43	.0157	21.47	.034	SI	
>	426.	0.	3.	-119600.	-15.3	469.4	8.04	9.43	.0134	21.47	.029	SI	
739.	313.	3.	1.	74619.	-13.5	573.1	4.02	10.22	.0164	32.64	.053	SI	
996.	570.	3.	1.	-65344.	-11.8	501.9	4.02	10.22	.0143	32.64	.047	SI	

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 39 - Travata Tt010 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecud=.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogenein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acls=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A330	3	3	3	0	410.	370.	10.25	1.3	2.097	47.395
2	A369	3	3	3	0	555.	515.	13.875	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAY PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-292154.	-.043	.108	-546809.	-.35	2.278	3.	.133	1.872	SI
0.	0.	3.	1.	46641.	-.007	.017	546809.	-.35	2.278	3.	.133	11.72	SI
117.	117.	3.	1.	-20628.	-.003	.008	-546809.	-.35	2.278	3.	.133	26.51	SI
200.	200.	3.	1.	260709.	-.038	.096	546809.	-.35	2.278	3.	.133	2.097	SI
325.	325.	3.	2.	-96008.	-.011	.018	-1039699.	-.35	1.395	3.	.201	10.83	SI
325.	325.	3.	2.	180223.	-.023	.066	547697.	-.35	2.388	3.	.128	3.039	SI
369.	369.	3.	3.	130062.	-.013	.024	1051660.	-.35	1.781	3.	.164	8.086	SI
410.	410.	3.	3.	-247041.	-.025	.046	-1051660.	-.35	1.781	3.	.164	4.257	SI
410.	410.	3.	3.	66201.	-.006	.012	1051660.	-.35	1.781	3.	.164	15.89	SI
> 410.	0.	3.	3.	-167215.	-.017	.031	-1051660.	-.35	1.781	3.	.164	6.289	SI
410.	0.	3.	3.	55864.	-.005	.01	1051660.	-.35	1.781	3.	.164	18.83	SI
451.	41.	3.	2.	-153067.	-.017	.029	-1039699.	-.35	1.395	3.	.201	6.792	SI
451.	41.	3.	2.	75444.	-.009	.028	547697.	-.35	2.388	3.	.128	7.26	SI
583.	173.	3.	1.	97711.	-.014	.036	546809.	-.35	2.278	3.	.133	5.596	SI
627.	217.	3.	1.	-1805.	0.	.001	-546809.	-.35	2.278	3.	.133	302.9	SI
965.	555.	3.	1.	-183927.	-.026	.068	-546809.	-.35	2.278	3.	.133	2.973	SI
965.	555.	3.	1.	31713.	-.004	.012	546809.	-.35	2.278	3.	.133	17.24	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1730.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6552.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2476.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2476.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-6327.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	1458.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1972.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	3914.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-2024.	4455.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2165.	4455.	24411.	24577.	1.01	9.	1.75	SI
965.	555.	3.	-3629.	3948.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	2129.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
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>	0.	0.	3.	1.	-204319.!	-37.!	1569.3!	4.02	10.22	.0448	32.64	.146	SI
	15.	15.	3.	1.	-182602.!	-33.1!	1402.5!	4.02	10.22	.0401	32.64	.131	SI
	31.	31.	3.	1.	-136084.!	-24.7!	1045.2!	4.02	10.22	.0299	32.64	.097	SI
	200.	200.	3.	1.	184700.!	-33.5!	1418.6!	4.02	10.22	.0405	32.64	.132	SI
	410.	410.	3.	3.	-168067.!	-21.5!	659.6!	8.04	9.43	.0188	21.47	.04	SI
>	410.	0.	3.	3.	-81901.!	-10.5!	321.4!	8.04	9.43	.0092	21.47	.02	SI
	671.	261.	3.	1.	75132.!	-13.6!	577.1!	4.02	10.22	.0165	32.64	.054	SI
	965.	555.	3.	1.	-119506.!	-21.7!	917.9!	4.02	10.22	.0262	32.64	.086	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
>	0.	0.	3.	1.	-164509.!	-29.8!	1263.6!	4.02	10.22	.0361	32.64	.118	SI
	15.	15.	3.	1.	-146536.!	-26.6!	1125.5!	4.02	10.22	.0322	32.64	.105	SI
	31.	31.	3.	1.	-108038.!	-19.6!	829.8!	4.02	10.22	.0237	32.64	.077	SI
	200.	200.	3.	1.	156109.!	-28.3!	1199.!	4.02	10.22	.0343	32.64	.112	SI
	410.	410.	3.	3.	-137723.!	-17.6!	540.5!	8.04	9.43	.0154	21.47	.033	SI
>	410.	0.	3.	3.	-71989.!	-9.2!	282.5!	8.04	9.43	.0081	21.47	.017	SI
	671.	261.	3.	1.	75310.!	-13.7!	578.4!	4.02	10.22	.0165	32.64	.054	SI
	965.	555.	3.	1.	-104119.!	-18.9!	799.7!	4.02	10.22	.0228	32.64	.075	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
>	0.	0.	3.	1.	-148692.!	-27.!	1142.1!	4.02	10.22	.0326	32.64	.107	SI
	15.	15.	3.	1.	-132193.!	-24.!	1015.3!	4.02	10.22	.029	32.64	.095	SI
	31.	31.	3.	1.	-96851.!	-17.6!	743.9!	4.02	10.22	.0213	32.64	.069	SI
	200.	200.	3.	1.	144305.!	-26.2!	1108.4!	4.02	10.22	.0317	32.64	.103	SI
	410.	410.	3.	3.	-127817.!	-16.3!	501.6!	8.04	9.43	.0143	21.47	.031	SI
>	410.	0.	3.	3.	-70339.!	-9.!	276.1!	8.04	9.43	.0079	21.47	.017	SI
	671.	261.	3.	1.	74561.!	-13.5!	572.7!	4.02	10.22	.0164	32.64	.053	SI
	965.	555.	3.	1.	-98855.!	-17.9!	759.3!	4.02	10.22	.0217	32.64	.071	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 40 - Travata Tt011 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinale= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	λmax
1	A331	3	3	3	0	410.	370.	10.25	1.3	5.	112.985
2	A370	3	3	3	0	570.	530.	14.25	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE		FREQUENTI		QUASI PERMANENTI	
Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.
			21.	Quasi Perm	1.

16.	Rara VentoX	2.	19.	Frequente VentoX	2.
17.	Rara VentoY	2.	20.	Frequente VentoY	2.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-187475.	-.027	.069	-546809.	-.35	2.278	3.	.133	2.917	SI
0.	0.	3.	32239.	-.005	.012	546809.	-.35	2.278	3.	.133	16.96	SI
200.	200.	3.	-8358.	-.001	.003	-546809.	-.35	2.278	3.	.133	65.42	SI
325.	325.	3.	-84198.	-.009	.016	-1039699.	-.35	1.395	3.	.201	12.35	SI
325.	325.	3.	100851.	-.013	.037	547697.	-.35	2.388	3.	.128	5.431	SI
385.	385.	3.	119370.	-.012	.022	1051660.	-.35	1.781	3.	.164	8.81	SI
394.	394.	3.	121742.	-.012	.023	1051660.	-.35	1.781	3.	.164	8.638	SI
410.	410.	3.	-134982.	-.013	.025	-1051660.	-.35	1.781	3.	.164	7.791	SI
410.	410.	3.	121742.	-.012	.023	1051660.	-.35	1.781	3.	.164	8.638	SI
> 410.	0.	3.	-142248.	-.014	.027	-1051660.	-.35	1.781	3.	.164	7.393	SI
410.	0.	3.	62895.	-.006	.012	1051660.	-.35	1.781	3.	.164	16.72	SI
451.	41.	3.	-129167.	-.014	.024	-1039699.	-.35	1.395	3.	.201	8.049	SI
451.	41.	3.	79914.	-.01	.029	547697.	-.35	2.388	3.	.128	6.854	SI
586.	176.	3.	96981.	-.014	.036	546809.	-.35	2.278	3.	.133	5.638	SI
980.	570.	3.	-184160.	-.026	.068	-546809.	-.35	2.278	3.	.133	2.969	SI
980.	570.	3.	6747.	-.001	.002	546809.	-.35	2.278	3.	.133	81.05	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-3526.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	4378.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3702.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3702.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-4609.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	3178.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1896.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	3836.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-1946.	4455.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2084.	4455.	24411.	24577.	1.01	9.	1.75	SI
980.	570.	3.	-3556.	3948.	28335.	14044.	1.01	9.	1.	SI
980.	570.	3.	2051.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-121356.	-22.	932.1	4.02	10.22	.0266	32.64	.087	SI
15.	15.	3.	-115000.	-20.8	883.3	4.02	10.22	.0252	32.64	.082	SI
31.	31.	3.	-101386.	-18.4	778.7	4.02	10.22	.0222	32.64	.073	SI
347.	347.	3.	37728.	-6.2	289.8	4.02	10.43	.0083	33.07	.027	SI
410.	410.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	31670.	-4.	124.3	8.04	9.43	.0036	21.47	.008	SI
> 410.	0.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
632.	222.	3.	75172.	-13.6	577.4	4.02	10.22	.0165	32.64	.054	SI
980.	570.	3.	-118245.	-21.4	908.2	4.02	10.22	.0259	32.64	.085	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-88856.	-16.1	682.5	4.02	10.22	.0195	32.64	.064	SI
15.	15.	3.	-83695.	-15.2	642.8	4.02	10.22	.0184	32.64	.06	SI
31.	31.	3.	-72641.	-13.2	557.9	4.02	10.22	.0159	32.64	.052	SI
242.	242.	3.	34218.	-6.2	262.8	4.02	10.22	.0075	32.64	.025	SI
410.	410.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	505.	-1.	2.	8.04	9.43	.0001	21.47	0.	SI
> 410.	0.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
677.	267.	3.	75147.	-13.6	577.2	4.02	10.22	.0165	32.64	.054	SI
980.	570.	3.	-105620.	-19.1	811.3	4.02	10.22	.0232	32.64	.076	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-78271.	-14.2	601.2	4.02	10.22	.0172	32.64	.056	SI
15.	15.	3.	-73455.	-13.3	564.2	4.02	10.22	.0161	32.64	.053	SI
31.	31.	3.	-63140.	-11.4	485.	4.02	10.22	.0139	32.64	.045	SI
242.	242.	3.	34078.	-6.2	261.7	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
> 410.	0.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
677.	267.	3.	75245.	-13.6	577.9	4.02	10.22	.0165	32.64	.054	SI
980.	570.	3.	-101800.	-18.5	781.9	4.02	10.22	.0223	32.64	.073	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16

2	12.06	1.005	8.04	.67	2d16	+2d16	4.02	.335	2d16	
3	16.08	1.34	8.04	.67	2d16	+2d16	8.04	.67	2d16	+2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 41 - Travata Tt012 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO:  $\sigma$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acls=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A332	3	3	3	0	410.	370.	10.25	1.3	5.	112.985
2	A371	3	3	3	0	555.	515.	13.875	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-198007.	-.028	.073	-546809.	-.35	2.278	3.	.133	2.762	SI
0.	0.	3.	1.	96462.	-.014	.036	546809.	-.35	2.278	3.	.133	5.669	SI
200.	200.	3.	1.	-7205.	-.001	.003	-546809.	-.35	2.278	3.	.133	75.9	SI
325.	325.	3.	2.	-120814.	-.014	.023	-1039699.	-.35	1.395	3.	.201	8.606	SI
325.	325.	3.	2.	104744.	-.013	.039	547697.	-.35	2.388	3.	.128	5.229	SI
369.	369.	3.	3.	120892.	-.012	.023	1051660.	-.35	1.781	3.	.164	8.699	SI
394.	394.	3.	3.	128609.	-.013	.024	1051660.	-.35	1.781	3.	.164	8.177	SI
410.	410.	3.	3.	-188487.	-.019	.035	-1051660.	-.35	1.781	3.	.164	5.579	SI
410.	410.	3.	3.	128609.	-.013	.024	1051660.	-.35	1.781	3.	.164	8.177	SI
> 410.	0.	3.	3.	-172546.	-.017	.032	-1051660.	-.35	1.781	3.	.164	6.095	SI
410.	0.	3.	3.	86590.	-.009	.016	1051660.	-.35	1.781	3.	.164	12.15	SI
451.	41.	3.	2.	-157595.	-.018	.03	-1039699.	-.35	1.395	3.	.201	6.597	SI
451.	41.	3.	2.	96783.	-.012	.036	547697.	-.35	2.388	3.	.128	5.659	SI
539.	129.	3.	2.	100358.	-.013	.037	547697.	-.35	2.388	3.	.128	5.457	SI
758.	348.	3.	1.	-13858.	-.002	.005	-546809.	-.35	2.278	3.	.133	39.46	SI
965.	555.	3.	1.	-233602.	-.034	.086	-546809.	-.35	2.278	3.	.133	2.341	SI
965.	555.	3.	1.	19345.	-.003	.007	546809.	-.35	2.278	3.	.133	28.27	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-3534.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	4605.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3710.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3710.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-4617.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	3405.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1968.	3948.	28335.	14044.	1.01	9.	1.	SI

410.	0.	3.	3919.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-2019.	4455.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2161.	4455.	24411.	24577.	1.01	9.	1.75	SI
965.	555.	3.	-3624.	3948.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	2134.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-89591.	-16.2	688.1	4.02	10.22	.0197	32.64	.064	SI
15.	15.	3.	-83973.	-15.2	645.	4.02	10.22	.0184	32.64	.06	SI
283.	283.	3.	34117.	-6.2	262.	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	-39154.	-5.	153.7	8.04	9.43	.0044	21.47	.009	SI
410.	410.	3.	8875.	-1.1	34.8	8.04	9.43	.001	21.47	.002	SI
> 410.	0.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
627.	217.	3.	75082.	-13.6	576.7	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	-131507.	-23.8	1010.1	4.02	10.22	.0289	32.64	.094	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-60112.	-10.9	461.7	4.02	10.22	.0132	32.64	.043	SI
15.	15.	3.	-55617.	-10.1	427.2	4.02	10.22	.0122	32.64	.04	SI
31.	31.	3.	-45989.	-8.3	353.2	4.02	10.22	.0101	32.64	.033	SI
200.	200.	3.	34340.	-6.2	263.8	4.02	10.22	.0075	32.64	.025	SI
410.	410.	3.	-32469.	-4.1	127.4	8.04	9.43	.0036	21.47	.008	SI
> 410.	0.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
671.	261.	3.	75242.	-13.6	577.9	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	-114405.	-20.7	878.7	4.02	10.22	.0251	32.64	.082	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-51600.	-9.4	396.3	4.02	10.22	.0113	32.64	.037	SI
15.	15.	3.	-47428.	-8.6	364.3	4.02	10.22	.0104	32.64	.034	SI
31.	31.	3.	-38493.	-7.	295.7	4.02	10.22	.0084	32.64	.028	SI
200.	200.	3.	34272.	-6.2	263.2	4.02	10.22	.0075	32.64	.025	SI
410.	410.	3.	-31868.	-4.1	125.1	8.04	9.43	.0036	21.47	.008	SI
> 410.	0.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
671.	261.	3.	74678.	-13.5	573.6	4.02	10.22	.0164	32.64	.053	SI
965.	555.	3.	-109352.	-19.8	839.9	4.02	10.22	.024	32.64	.078	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 42 - Travata Tt013 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	λam.max
1	A333	3	3	3	0	410.	370.	10.25	1.3	5.	106.277
2	A372	3	3	3	0	545.	495.	13.625	1.3	1.441	27.72

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-193923.	-.026	.071	-547369.	-.35	2.346	3.	.13	2.823	SI
0.	0.	3.	1.	157488.	-.019	.039	796796.	-.35	1.795	3.	.163	5.059	SI
200.	200.	3.	1.	23257.	-.003	.006	796796.	-.35	1.795	3.	.163	34.26	SI
325.	325.	3.	2.	-181424.	-.017	.023	-1524545.	-.35	1.062	3.	.248	8.403	SI
369.	369.	3.	3.	92196.	-.007	.01	1798471.	-.35	1.382	3.	.202	19.51	SI
410.	410.	3.	3.	-269234.	-.02	.034	-1558335.	-.35	1.682	3.	.172	5.788	SI
410.	410.	3.	3.	97745.	-.007	.011	1798471.	-.35	1.382	3.	.202	18.4	SI
> 410.	0.	3.	3.	-681843.	-.052	.086	-1558335.	-.35	1.682	3.	.172	2.285	SI
410.	0.	3.	3.	57031.	-.004	.006	1798471.	-.35	1.382	3.	.202	31.54	SI
451.	41.	3.	4.	-581610.	-.053	.074	-1539128.	-.35	1.268	3.	.216	2.646	SI
451.	41.	3.	4.	215467.	-.019	.04	1056361.	-.35	1.987	3.	.15	4.903	SI
682.	272.	3.	5.	730051.	-.076	.138	1051660.	-.35	1.781	3.	.164	1.441	SI
955.	545.	3.	5.	-803740.	-.084	.152	-1051660.	-.35	1.781	3.	.164	1.308	SI
955.	545.	3.	5.	33095.	-.003	.006	1051660.	-.35	1.781	3.	.164	31.78	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-5469.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6138.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-5645.	4455.	24411.	24577.	1.01	9.	1.75	SI
369.	369.	3.	-6505.	5099.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	-6552.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	4938.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-988.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	10447.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-1265.	5613.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2025.	5613.	24411.	24577.	1.01	9.	1.75	SI
955.	545.	3.	-9544.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	545.	3.	1027.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-53439.	-9.2	410.4	4.02	10.33	.0117	32.87	.039	SI
0.	0.	3.	1.	9809.	-1.5	51.	6.03	9.64	.0015	24.94	.004	SI
15.	15.	3.	1.	14436.	-2.3	75.	6.03	9.64	.0021	24.94	.005	SI
117.	117.	3.	1.	34146.	-5.3	177.5	6.03	9.64	.0051	24.94	.013	SI
410.	410.	3.	3.	-112044.	-11.	295.6	12.06	9.06	.0084	18.03	.015	SI
> 410.	0.	3.	3.	-481229.	-47.4	1269.7	12.06	9.06	.0477	18.03	.086	SI
682.	272.	3.	5.	515960.	-65.9	2025.	8.04	9.43	.0783	21.47	.168	SI
955.	545.	3.	5.	-565588.	-72.3	2219.8	8.04	9.43	.0875	21.47	.188	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-27226.	-4.7	209.1	4.02	10.33	.006	32.87	.02	SI
15.	15.	3.	1.	-24510.	-4.2	188.2	4.02	10.33	.0054	32.87	.018	SI
16.	16.	3.	1.	-24124.	-4.2	185.3	4.02	10.33	.0053	32.87	.017	SI
158.	158.	3.	1.	34121.	-5.3	177.3	6.03	9.64	.0051	24.94	.013	SI
410.	410.	3.	3.	-92719.	-9.1	244.6	12.06	9.06	.007	18.03	.013	SI
> 410.	0.	3.	3.	-392393.	-38.7	1035.3	12.06	9.06	.0366	18.03	.066	SI
682.	272.	3.	5.	433223.	-55.4	1700.3	8.04	9.43	.0628	21.47	.135	SI
955.	545.	3.	5.	-463913.	-59.3	1820.7	8.04	9.43	.0685	21.47	.147	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-29817.	-5.1	229.	4.02	10.33	.0065	32.87	.022	SI
15.	15.	3.	1.	-24546.	-4.2	188.5	4.02	10.33	.0054	32.87	.018	SI
31.	31.	3.	1.	-18902.	-3.3	145.2	4.02	10.33	.0041	32.87	.014	SI
158.	158.	3.	1.	34132.	-5.3	177.4	6.03	9.64	.0051	24.94	.013	SI
410.	410.	3.	3.	-87343.	-8.6	230.5	12.06	9.06	.0066	18.03	.012	SI
> 410.	0.	3.	3.	-359016.	-35.4	947.3	12.06	9.06	.0324	18.03	.058	SI

682. |272. |3. |5. | 400135. ! -51.1 |1570.4 | 8.04 | 9.43 | .0566 | 21.47 | .122 |SI |  
 955. |545. |3. |5. | -425518. ! -54.4 |1670. ! 8.04 | 9.43 | .0614 | 21.47 | .132 |SI |

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	18.1	1.508	12.06	1.005	2d16 +4d16	6.03	.503	3d16
3	26.14	2.178	12.06	1.005	2d16 +4d16	14.07	1.173	3d16 +4d16
4	20.11	1.676	12.06	1.005	2d16 +4d16	8.04	.67	4d16
5	16.08	1.34	8.04	.67	4d16	8.04	.67	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 43 - Travata Tt014 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:cm e derivat.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A334	3	3	3	0	410.	370.	10.25	1.3	4.013	85.291
2	A373	3	3	3	0	545.	495.	13.625	1.3	1.131	21.009

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-194393.	-.026!	.072!	-547369.	-.35	2.346	3.	.13	2.816	SI
0.	0.	3.	1.	198570.	-.025!	.05!	796796.	-.35	1.795	3.	.163	4.013	SI
200.	200.	3.	1.	15513.	-.002!	.004!	796796.	-.35	1.795	3.	.163	51.36	SI
369.	369.	3.	3.	67682.	-.005!	.006!	2276459.	-.35	1.038	3.	.252	33.64	SI
410.	410.	3.	3.	-334906.	-.023!	.042!	-1564082.	-.35	1.845	3.	.159	4.67	SI
410.	410.	3.	3.	71638.	-.005!	.006!	2276459.	-.35	1.038	3.	.252	31.78	SI
> 410.	0.	3.	3.	-1289514.	-.092!	.163!	-1564082.	-.35	1.845	3.	.159	1.213	SI
410.	0.	3.	3.	1808.	0.	0.	2276459.	-.35	1.038	3.	.252	1259.	SI
682.	272.	3.	5.	1360616.	-.133!	.175!	1539128.	-.35	1.268	3.	.216	1.131	SI
955.	545.	3.	6.	-1434597.	-.117!	.158!	-1798471.	-.35	1.382	3.	.202	1.254	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-5491.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6915.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-5667.	4455.	24411.	24577.	1.01	9.	1.75	SI
369.	369.	3.	-6527.	5099.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	-6574.	3948.	28335.	14044.	1.01	9.	1.	SI

410.	410.	3.	5715.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-244.	3948.	28335.	18056.	1.01	7.	1.	SI
410.	0.	3.	15860.	3948.	28335.	18056.	1.01	7.	1.	SI
451.	41.	3.	-746.	6425.	28335.	18056.	1.01	7.	1.	SI
495.	85.	3.	-2121.	6425.	26485.	26182.	1.01	7.	1.45	SI
955.	545.	3.	-15735.	3948.	28335.	15799.	1.01	8.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-28377.	-4.9	217.9	4.02	10.33	.0062	32.87	.02	SI
15.	15.	3.	1.	26497.	-4.1	137.7	6.03	9.64	.0039	24.94	.01	SI
75.	75.	3.	1.	34309.	-5.4	178.3	6.03	9.64	.0051	24.94	.013	SI
283.	283.	3.	1.	-71367.	-12.3	548.1	4.02	10.33	.0157	32.87	.051	SI
410.	410.	3.	3.	-172724.	-15.8	454.3	12.06	9.26	.013	18.16	.024	SI
> 410.	0.	3.	3.	-905306.	-82.6	2380.9	12.06	9.26	.1004	18.16	.182	SI
682.	272.	3.	5.	955381.	-107.4	2540.8	12.06	8.72	.1086	17.8	.193	SI
955.	545.	3.	6.	-1005067.	-98.6	2291.5	14.07	8.67	.0981	16.92	.166	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-26276.	-4.5	201.8	4.02	10.33	.0058	32.87	.019	SI
15.	15.	3.	1.	9389.	-1.5	48.8	6.03	9.64	.0014	24.94	.003	SI
158.	158.	3.	1.	34209.	-5.3	177.8	6.03	9.64	.0051	24.94	.013	SI
283.	283.	3.	1.	-61810.	-10.7	474.7	4.02	10.33	.0136	32.87	.045	SI
410.	410.	3.	3.	-143171.	-13.1	376.5	12.06	9.26	.0108	18.16	.02	SI
> 410.	0.	3.	3.	-736990.	-67.3	1938.2	12.06	9.26	.0794	18.16	.144	SI
682.	272.	3.	5.	790257.	-88.8	2101.7	12.06	8.72	.0877	17.8	.156	SI
955.	545.	3.	6.	-820719.	-80.5	1871.2	14.07	8.67	.0781	16.92	.132	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	4756.	-.7	24.7	6.03	9.64	.0007	24.94	.002	SI
16.	16.	3.	1.	-26036.	-4.5	200.	4.02	10.33	.0057	32.87	.019	SI
158.	158.	3.	1.	34438.	-5.4	179.	6.03	9.64	.0051	24.94	.013	SI
283.	283.	3.	1.	-57951.	-10.	445.1	4.02	10.33	.0127	32.87	.042	SI
410.	410.	3.	3.	-133460.	-12.2	351.	12.06	9.26	.01	18.16	.018	SI
> 410.	0.	3.	3.	-671738.	-61.3	1766.6	12.06	9.26	.0712	18.16	.129	SI
682.	272.	3.	5.	724205.	-81.4	1926.	12.06	8.72	.0794	17.8	.141	SI
955.	545.	3.	6.	-749409.	-73.5	1708.6	14.07	8.67	.0704	16.92	.119	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	18.1	1.508	12.06	1.005	2d16 +4d16	6.03	.503	3d16
3	30.16	2.513	12.06	1.005	2d16 +4d16	18.1	1.508	3d16 +6d16
4	24.13	2.011	12.06	1.005	2d16 +4d16	12.06	1.005	6d16
5	20.11	1.676	8.04	.67	4d16	12.06	1.005	6d16
6	26.14	2.178	14.07	1.173	3d16 +4d16	12.06	1.005	6d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 44 - Travata Tt015 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; al.t.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A335	3	3	3	0	410.	370.	10.25	1.3	3.03	64.404

2| A374| 3| 3| 3| 0| 545.| 495.| 13.625|1.3|1.255| 23.314|

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	1.	-318524.	-.044	.117	-547369.	-.35	2.346	3.	.13	1.718
0.	0.	3.	1.	218263.	-.027	.054	796796.	-.35	1.795	3.	.163	3.651
117.	117.	3.	1.	262969.	-.033	.066	796796.	-.35	1.795	3.	.163	3.03
158.	158.	3.	1.	-5076.	-.001	.002	-547369.	-.35	2.346	3.	.13	107.8
369.	369.	3.	3.	222699.	-.016	.019	2276459.	-.35	1.038	3.	.252	10.22
410.	410.	3.	3.	-472861.	-.033	.059	-1564082.	-.35	1.845	3.	.159	3.308
410.	410.	3.	3.	179529.	-.013	.015	2276459.	-.35	1.038	3.	.252	12.68
> 410.	0.	3.	3.	-1163533.	-.083	.147	-1564082.	-.35	1.845	3.	.159	1.344
410.	0.	3.	3.	51084.	-.004	.004	2276459.	-.35	1.038	3.	.252	44.56
682.	272.	3.	5.	1226088.	-.118	.158	1539128.	-.35	1.268	3.	.216	1.255
955.	545.	3.	4.	-1291037.	-.109	.164	-1554050.	-.35	1.573	3.	.182	1.204
955.	545.	3.	4.	34068.	-.003	.004	1554050.	-.35	1.573	3.	.182	45.62

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	1.	-3660.	3948.	28335.	14044.	1.01	9.
0.	0.	3.	1.	8890.	3948.	28335.	14044.	1.01	9.
75.	75.	3.	1.	-4415.	4455.	24411.	24577.	1.01	9.
200.	200.	3.	1.	-5986.	5099.	19541.	11285.	1.01	28.
410.	410.	3.	1.	-8311.	3948.	28335.	14044.	1.01	9.
410.	410.	3.	3.	3737.	3948.	28335.	14044.	1.01	9.
> 410.	0.	3.	3.	-503.	3948.	28335.	15799.	1.01	8.
410.	0.	3.	3.	14517.	3948.	28335.	15799.	1.01	8.
451.	41.	3.	3.	-954.	6425.	28335.	15799.	1.01	8.
495.	85.	3.	3.	-2187.	6425.	25469.	25279.	1.01	8.
955.	545.	3.	4.	-14400.	3948.	28335.	15799.	1.01	8.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	1.	-156594.	-27.	1202.6	4.02	10.33	.0344	32.87	.113
16.	16.	3.	1.	-135506.	-23.4	1040.7	4.02	10.33	.0297	32.87	.098
31.	31.	3.	1.	-98575.	-17.	757.	4.02	10.33	.0216	32.87	.071
158.	158.	3.	1.	187018.	-29.2	971.9	6.03	9.64	.0278	24.94	.069
410.	410.	3.	3.	-326507.	-29.8	858.7	12.06	9.26	.028	18.16	.051
> 410.	0.	3.	3.	-817294.	-74.6	2149.4	12.06	9.26	.0894	18.16	.162
682.	272.	3.	5.	861746.	-96.9	2291.8	12.06	8.72	.0968	17.8	.172
955.	545.	3.	4.	-904973.	-92.9	2392.9	12.06	8.95	.1013	17.96	.182

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	1.	-138028.	-23.8	1060.	4.02	10.33	.0303	32.87	.1
16.	16.	3.	1.	-105791.	-18.2	812.5	4.02	10.33	.0232	32.87	.076
31.	31.	3.	1.	-75692.	-13.1	581.3	4.02	10.33	.0166	32.87	.055
200.	200.	3.	1.	157441.	-24.6	818.2	6.03	9.64	.0234	24.94	.058
410.	410.	3.	3.	-263664.	-24.1	693.4	12.06	9.26	.0201	18.16	.036
> 410.	0.	3.	3.	-662711.	-60.5	1742.9	12.06	9.26	.0701	18.16	.127
682.	272.	3.	5.	713793.	-80.2	1898.3	12.06	8.72	.078	17.8	.139
955.	545.	3.	4.	-741565.	-76.1	1960.8	12.06	8.95	.0808	17.96	.145

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	1.	-128040.	-22.1	983.3	4.02	10.33	.0281	32.87	.092
16.	16.	3.	1.	-98389.	-17.	755.6	4.02	10.33	.0216	32.87	.071
31.	31.	3.	1.	-70704.	-12.2	543.	4.02	10.33	.0155	32.87	.051
200.	200.	3.	1.	147799.	-23.1	768.1	6.03	9.64	.0219	24.94	.055
410.	410.	3.	3.	-241183.	-22.	634.3	12.06	9.26	.0181	18.16	.033



> 410. | 0. | 3. | 3. | -603011. | -55. | 1585.9 | 12.06 | 9.26 | .0626 | 18.16 | .114 | SI |  
 682. | 272. | 3. | 5. | 654693. | -73.6 | 1741.1 | 12.06 | 8.72 | .0706 | 17.8 | .126 | SI |  
 955. | 545. | 3. | 14. | -678760. | -69.7 | 1794.8 | 12.06 | 8.95 | .0729 | 17.96 | .131 | SI |

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	18.1	1.508	12.06	1.005	2d16 +4d16	6.03	.503	3d16
3	30.16	2.513	12.06	1.005	2d16 +4d16	18.1	1.508	3d16 +6d16
4	24.13	2.011	12.06	1.005	2d16 +4d16	12.06	1.005	6d16
5	20.11	1.676	8.04	.67	4d16	12.06	1.005	6d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 59 - Travata T1e011 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A496	3	3	3	0	425.	395.	10.625	1.3	1.198	27.065
2	A501	3	3	3	0	490.	460.	12.25	1.3	1.244	25.326

CASI DI CARICO DA MODELLO 3D

SLU			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
1.	SLU	1.	18.	Frequente	1.	21.	Quasi Perm	1.
2.	SLU VENTOX	2.	19.	Frequente Ventox	2.			
3.	SLU VENTOY	2.	20.	Frequente VentoY	2.			
6.	SLU con SISMAY PRINC16							
7.	SLU con SISMAY PRINC16							

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.   1.	-396553.	-.059	.147	-546809.	-.35	2.278	3.	.133	1.379	SI
0.	0.	3.   1.	131990.	-.019	.049	546809.	-.35	2.278	3.	.133	4.143	SI
212.	212.	3.   1.	456538.	-.068	.169	546809.	-.35	2.278	3.	.133	1.198	SI
350.	350.	3.   2.	224913.	-.029	.083	547697.	-.35	2.388	3.	.128	2.435	SI
394.	394.	3.   2.	-615503.	-.073	.117	-1039699.	-.35	1.395	3.	.201	1.689	SI
409.	409.	3.   3.	113191.	-.01	.014	1539128.	-.35	1.268	3.	.216	13.6	SI
425.	425.	3.   3.	-670683.	-.061	.126	-1056361.	-.35	1.987	3.	.15	1.575	SI
425.	425.	3.   3.	75783.	-.007	.01	1539128.	-.35	1.268	3.	.216	20.31	SI
> 425.	0.	3.   3.	-887878.	-.083	.167	-1056361.	-.35	1.987	3.	.15	1.19	SI
425.	0.	3.   3.	61847.	-.005	.008	1539128.	-.35	1.268	3.	.216	24.89	SI
670.	245.	3.   5.	835867.	-.103	.16	1039699.	-.35	1.395	3.	.201	1.244	SI
915.	490.	3.   4.	-739357.	-.077	.14	-1051660.	-.35	1.781	3.	.164	1.422	SI
915.	490.	3.   4.	130231.	-.013	.024	1051660.	-.35	1.781	3.	.164	8.075	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-929.	3948.	28335.	14044.	1.01	9.	1.

0.	0.	3.	7210.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-1988.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-1988.	4455.	24411.	24577.	1.01	9.	1.75	SI
425.	425.	3.	-7427.	3948.	28335.	14044.	1.01	9.	1.	SI
425.	425.	3.	1211.	3948.	28335.	14044.	1.01	9.	1.	SI
> 425.	0.	3.	-1036.	3948.	28335.	14044.	1.01	9.	1.	SI
425.	0.	3.	12781.	3948.	28335.	14044.	1.01	9.	1.	SI
478.	53.	3.	-1820.	5613.	28335.	14044.	1.01	9.	1.	SI
500.	75.	3.	-2273.	4455.	24411.	24577.	1.01	9.	1.75	SI
915.	490.	3.	-11344.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-214559.	-38.9	1648.	4.02	10.22	.0471	32.64	.154	SI
31.	31.	3.	1.	-153061.	-27.7	1175.6	4.02	10.22	.0336	32.64	.11	SI
212.	212.	3.	1.	323180.	-58.6	2482.3	4.02	10.22	.0823	32.64	.269	SI
425.	425.	3.	3.	-476181.	-55.7	1863.1	8.04	9.65	.0702	21.69	.152	SI
> 425.	0.	3.	3.	-624112.	-73.	2441.9	8.04	9.65	.0977	21.69	.212	SI
670.	245.	3.	5.	587716.	-83.2	2318.8	8.04	9.17	.0927	21.2	.196	SI
915.	490.	3.	4.	-517048.	-66.1	2029.3	8.04	9.43	.0785	21.47	.168	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-132529.	-24.	1017.9	4.02	10.22	.0291	32.64	.095	SI
31.	31.	3.	1.	-94050.	-17.	722.4	4.02	10.22	.0206	32.64	.067	SI
212.	212.	3.	1.	198798.	-36.	1526.9	4.02	10.22	.0436	32.64	.142	SI
425.	425.	3.	3.	-278744.	-32.6	1090.6	8.04	9.65	.0334	21.69	.072	SI
> 425.	0.	3.	3.	-372621.	-43.6	1457.9	8.04	9.65	.0509	21.69	.11	SI
670.	245.	3.	5.	349374.	-49.4	1378.4	8.04	9.17	.0479	21.2	.102	SI
915.	490.	3.	4.	-300074.	-38.3	1177.7	8.04	9.43	.0379	21.47	.081	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-130234.	-23.6	1000.3	4.02	10.22	.0286	32.64	.093	SI
31.	31.	3.	1.	-92543.	-16.8	710.8	4.02	10.22	.0203	32.64	.066	SI
212.	212.	3.	1.	195116.	-35.4	1498.6	4.02	10.22	.0428	32.64	.14	SI
425.	425.	3.	3.	-273590.	-32.	1070.4	8.04	9.65	.0324	21.69	.07	SI
> 425.	0.	3.	3.	-362377.	-42.4	1417.8	8.04	9.65	.049	21.69	.106	SI
670.	245.	3.	5.	342070.	-48.4	1349.6	8.04	9.17	.0465	21.2	.099	SI
915.	490.	3.	4.	-289490.	-37.	1136.2	8.04	9.43	.0359	21.47	.077	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	2d16 +4d16
4	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
5	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 154 - Travata Tt020 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; al.t.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	lam.max
1	A422	3	3	3	0	326.	286.	8.146	1.3	1.248	28.203

2| A432| 3| 3| 3| 0| 360.| 320.| 9.003|1.3|5. |112.985|

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-382047.	-.056	.141	-546809.	-.35	2.278	3.	.133	1.431	SI
0.	0.	3.	94681.	-.013	.035	546809.	-.35	2.278	3.	.133	5.775	SI
158.	158.	3.	438126.	-.065	.162	546809.	-.35	2.278	3.	.133	1.248	SI
241.	241.	3.	-113914.	-.013	.022	-1039699.	-.35	1.395	3.	.201	9.127	SI
241.	241.	3.	322607.	-.042	.119	547697.	-.35	2.388	3.	.128	1.698	SI
301.	301.	3.	167276.	-.017	.031	1051660.	-.35	1.781	3.	.164	6.287	SI
326.	326.	3.	-508321.	-.052	.096	-1051660.	-.35	1.781	3.	.164	2.069	SI
326.	326.	3.	69866.	-.007	.013	1051660.	-.35	1.781	3.	.164	15.05	SI
> 326.	0.	3.	-127299.	-.013	.024	-1051660.	-.35	1.781	3.	.164	8.261	SI
326.	0.	3.	114800.	-.011	.022	1051660.	-.35	1.781	3.	.164	9.161	SI
389.	63.	3.	-95790.	-.011	.018	-1039699.	-.35	1.395	3.	.201	10.85	SI
389.	63.	3.	95716.	-.012	.035	547697.	-.35	2.388	3.	.128	5.722	SI
531.	205.	3.	15542.	-.002	.006	546809.	-.35	2.278	3.	.133	35.18	SI
686.	360.	3.	-177941.	-.026	.066	-546809.	-.35	2.278	3.	.133	3.073	SI
686.	360.	3.	35958.	-.005	.013	546809.	-.35	2.278	3.	.133	15.21	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-620.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	9261.	3948.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-2532.	4455.	28335.	14044.	1.01	9.	1.
75.	75.	3.	2532.	4455.	24411.	24577.	1.01	9.	1.75
326.	326.	3.	-9316.	3948.	28335.	14044.	1.01	9.	1.
> 326.	0.	3.	-4066.	3948.	28335.	14044.	1.01	9.	1.
326.	0.	3.	5177.	3948.	28335.	14044.	1.01	9.	1.
367.	41.	3.	-4113.	4455.	28335.	14044.	1.01	9.	1.
411.	85.	3.	-4241.	4455.	24411.	24577.	1.01	9.	1.75
686.	360.	3.	-5000.	3948.	28335.	14044.	1.01	9.	1.
686.	360.	3.	4127.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	-191112.	-34.6	1467.9	4.02	10.22	.0419	32.64	.137	SI
158.	158.	3.	306989.	-55.7	2357.9	4.02	10.22	.0764	32.64	.249	SI
326.	326.	3.	-356375.	-45.5	1398.7	8.04	9.43	.0484	21.47	.104	SI
> 326.	0.	3.	-22490.	-2.9	88.3	8.04	9.43	.0025	21.47	.005	SI
326.	0.	3.	12247.	-1.6	48.1	8.04	9.43	.0014	21.47	.003	SI
411.	85.	3.	25741.	-4.2	197.7	4.02	10.43	.0056	33.07	.019	SI
686.	360.	3.	-98409.	-17.8	755.9	4.02	10.22	.0216	32.64	.07	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	-158667.	-28.8	1218.7	4.02	10.22	.0348	32.64	.114	SI
158.	158.	3.	255018.	-46.2	1958.7	4.02	10.22	.0574	32.64	.187	SI
326.	326.	3.	-284657.	-36.4	1117.2	8.04	9.43	.035	21.47	.075	SI
> 326.	0.	3.	-22490.	-2.9	88.3	8.04	9.43	.0025	21.47	.005	SI
451.	125.	3.	25802.	-4.7	198.2	4.02	10.22	.0057	32.64	.018	SI
686.	360.	3.	-78300.	-14.2	601.4	4.02	10.22	.0172	32.64	.056	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	-145556.	-26.4	1118.	4.02	10.22	.0319	32.64	.104	SI
158.	158.	3.	233171.	-42.3	1790.9	4.02	10.22	.0512	32.64	.167	SI
326.	326.	3.	-257152.	-32.9	1009.3	8.04	9.43	.0299	21.47	.064	SI
> 326.	0.	3.	-22490.	-2.9	88.3	8.04	9.43	.0025	21.47	.005	SI
491.	165.	3.	25988.	-4.7	199.6	4.02	10.22	.0057	32.64	.019	SI

686. |360. |3. |1. | -71355. ! -12.9! 548.1! 4.02 |10.22 | .0157 | 32.64 | .051 |SI |

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 60 - Travata T1e012 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A575	3	3	3	0	406.	366.	10.14	1.3	1.221	27.584
2	A580	3	3	3	0	360.	320.	9.003	1.3	3.576	80.809

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-391433.	-.058	.145	-546809.	-.35	2.278	3.	.133	1.397	SI
0.	0.	3. 1.	226809.	-.033	.084	546809.	-.35	2.278	3.	.133	2.411	SI
116.	116.	3. 1.	-7399.	-.001	.003	-546809.	-.35	2.278	3.	.133	73.91	SI
198.	198.	3. 1.	447954.	-.067	.166	546809.	-.35	2.278	3.	.133	1.221	SI
321.	321.	3. 2.	-291042.	-.033	.055	-1039699.	-.35	1.395	3.	.201	3.572	SI
321.	321.	3. 2.	297608.	-.038	.11	547697.	-.35	2.388	3.	.128	1.84	SI
381.	381.	3. 3.	176999.	-.018	.033	1051660.	-.35	1.781	3.	.164	5.942	SI
406.	406.	3. 3.	-662943.	-.068	.125	-1051660.	-.35	1.781	3.	.164	1.586	SI
406.	406.	3. 3.	98004.	-.01	.018	1051660.	-.35	1.781	3.	.164	10.73	SI
> 406.	0.	3. 3.	-362905.	-.036	.068	-1051660.	-.35	1.781	3.	.164	2.898	SI
406.	0.	3. 3.	294081.	-.029	.055	1051660.	-.35	1.781	3.	.164	3.576	SI
469.	63.	3. 2.	-263848.	-.03	.05	-1039699.	-.35	1.395	3.	.201	3.941	SI
469.	63.	3. 2.	254591.	-.033	.094	547697.	-.35	2.388	3.	.128	2.151	SI
571.	165.	3. 1.	-28405.	-.004	.01	-546809.	-.35	2.278	3.	.133	19.25	SI
766.	360.	3. 1.	-420878.	-.062	.156	-546809.	-.35	2.278	3.	.133	1.299	SI
766.	360.	3. 1.	203434.	-.029	.075	546809.	-.35	2.278	3.	.133	2.688	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-74.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	7865.	3948.	28335.	14044.	1.01	9.	1.	SI

75.	75.	3.	-1439.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-1439.	4455.	24411.	24577.	1.01	9.	1.75	SI
406.	406.	3.	-8122.	3948.	28335.	14044.	1.01	9.	1.	SI
> 406.	0.	3.	-3266.	3948.	28335.	14044.	1.01	9.	1.	SI
406.	0.	3.	6122.	3948.	28335.	14044.	1.01	9.	1.	SI
447.	41.	3.	-3398.	4455.	28335.	14044.	1.01	9.	1.	SI
491.	85.	3.	-3756.	4455.	24411.	24577.	1.01	9.	1.75	SI
766.	360.	3.	-5880.	3948.	28335.	14044.	1.01	9.	1.	SI
766.	360.	3.	3182.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-212556.	-38.5	1632.6	4.02	10.22	.0466	32.64	.152	SI
198.	198.	3.	1.	312347.	-56.6	2399.1	4.02	10.22	.0783	32.64	.256	SI
406.	406.	3.	3.	-454213.	-58.	1782.7	8.04	9.43	.0667	21.47	.143	SI
> 406.	0.	3.	3.	-62276.	-8.	244.4	8.04	9.43	.007	21.47	.015	SI
406.	0.	3.	3.	485.	-.1	1.9	8.04	9.43	.0001	21.47	0.	SI
531.	125.	3.	1.	72256.	-13.1	555.	4.02	10.22	.0159	32.64	.052	SI
766.	360.	3.	1.	-152771.	-27.7	1173.4	4.02	10.22	.0335	32.64	.109	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-187231.	-33.9	1438.1	4.02	10.22	.0411	32.64	.134	SI
198.	198.	3.	1.	275365.	-49.9	2115.	4.02	10.22	.0648	32.64	.212	SI
406.	406.	3.	3.	-381372.	-48.7	1496.8	8.04	9.43	.0531	21.47	.114	SI
> 406.	0.	3.	3.	-62972.	-8.	247.1	8.04	9.43	.0071	21.47	.015	SI
571.	165.	3.	1.	72364.	-13.1	555.8	4.02	10.22	.0159	32.64	.052	SI
766.	360.	3.	1.	-120464.	-21.8	925.3	4.02	10.22	.0264	32.64	.086	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-176966.	-32.1	1359.2	4.02	10.22	.0388	32.64	.127	SI
198.	198.	3.	1.	259317.	-47.	1991.8	4.02	10.22	.0589	32.64	.192	SI
406.	406.	3.	3.	-354866.	-45.4	1392.8	8.04	9.43	.0481	21.47	.103	SI
> 406.	0.	3.	3.	-62972.	-8.	247.1	8.04	9.43	.0071	21.47	.015	SI
571.	165.	3.	1.	72154.	-13.1	554.2	4.02	10.22	.0158	32.64	.052	SI
766.	360.	3.	1.	-110526.	-20.	848.9	4.02	10.22	.0243	32.64	.079	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 61 - Travata T1e013 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	lam.max
1	A535	3	3	3	0	410.	370.	10.25	1.3	2.605	58.869
2	A551	3	3	3	0	555.	515.	13.875	1.3	3.808	86.053

CASI DI CARICO DA MODELLO 3D

SLU |

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-217989.	-.031	.08	-546809.	-.35	2.278	3.	.133	2.508	SI
0.	0.	3.	25162.	-.004	.009	546809.	-.35	2.278	3.	.133	21.73	SI
157.	157.	3.	-4768.	-.001	.002	-546809.	-.35	2.278	3.	.133	114.7	SI
286.	286.	3.	-242166.	-.035	.089	-546809.	-.35	2.278	3.	.133	2.258	SI
328.	328.	3.	-320417.	-.037	.061	-1039699.	-.35	1.395	3.	.201	3.245	SI
328.	328.	3.	87645.	-.011	.032	547697.	-.35	2.388	3.	.128	6.249	SI
371.	371.	3.	177909.	-.018	.033	1051660.	-.35	1.781	3.	.164	5.911	SI
395.	395.	3.	403684.	-.041	.076	1051660.	-.35	1.781	3.	.164	2.605	SI
410.	410.	3.	-330933.	-.033	.062	-1051660.	-.35	1.781	3.	.164	3.178	SI
410.	410.	3.	403684.	-.041	.076	1051660.	-.35	1.781	3.	.164	2.605	SI
> 410.	0.	3.	-254228.	-.025	.048	-1051660.	-.35	1.781	3.	.164	4.137	SI
410.	0.	3.	143035.	-.014	.027	1051660.	-.35	1.781	3.	.164	7.352	SI
450.	40.	3.	-236573.	-.027	.045	-1039699.	-.35	1.395	3.	.201	4.395	SI
450.	40.	3.	143730.	-.018	.053	547697.	-.35	2.388	3.	.128	3.811	SI
471.	61.	3.	143822.	-.018	.053	547697.	-.35	2.388	3.	.128	3.808	SI
715.	305.	3.	-3120.	0.	.001	-546809.	-.35	2.278	3.	.133	175.3	SI
965.	555.	3.	-299947.	-.044	.111	-546809.	-.35	2.278	3.	.133	1.823	SI
965.	555.	3.	115454.	-.016	.043	546809.	-.35	2.278	3.	.133	4.736	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2408.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	5887.	3948.	28335.	14044.	1.01	9.	1.	SI
72.	72.	3.	-3164.	4455.	28335.	14044.	1.01	9.	1.	SI
349.	349.	3.	14652.	4455.	28335.	15799.	1.01	8.	1.	SI
410.	410.	3.	-9633.	3948.	28335.	15799.	1.01	8.	1.	SI
410.	410.	3.	14129.	3948.	28335.	15799.	1.01	8.	1.	SI
> 410.	0.	3.	-1971.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	3915.	3948.	28335.	14044.	1.01	9.	1.	SI
450.	40.	3.	-2019.	4455.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	-3628.	3948.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	2130.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-146301.	-26.5	1123.7	4.02	10.22	.0321	32.64	.105	SI
14.	14.	3.	-129739.	-23.5	996.5	4.02	10.22	.0285	32.64	.093	SI
30.	30.	3.	-92863.	-16.8	713.3	4.02	10.22	.0204	32.64	.067	SI
157.	157.	3.	96191.	-17.4	738.8	4.02	10.22	.0211	32.64	.069	SI
328.	328.	3.	-212309.	-30.	837.7	8.04	9.17	.0239	21.2	.051	SI
410.	410.	3.	-84200.	-10.8	330.5	8.04	9.43	.0094	21.47	.02	SI
410.	410.	3.	39421.	-5.	154.7	8.04	9.43	.0044	21.47	.009	SI
> 410.	0.	3.	-70906.	-9.1	278.3	8.04	9.43	.008	21.47	.017	SI
670.	260.	3.	75222.	-13.6	577.8	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	-123489.	-22.4	948.5	4.02	10.22	.0271	32.64	.088	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-112513.	-20.4	864.2	4.02	10.22	.0247	32.64	.081	SI
14.	14.	3.	-98977.	-17.9	760.2	4.02	10.22	.0217	32.64	.071	SI
30.	30.	3.	-68838.	-12.5	528.7	4.02	10.22	.0151	32.64	.049	SI
157.	157.	3.	83977.	-15.2	645.	4.02	10.22	.0184	32.64	.06	SI
328.	328.	3.	-187117.	-26.5	738.3	8.04	9.17	.0211	21.2	.045	SI
410.	410.	3.	-73195.	-9.4	287.3	8.04	9.43	.0082	21.47	.018	SI
410.	410.	3.	4582.	-6.	18.	8.04	9.43	.0005	21.47	.001	SI
> 410.	0.	3.	-57804.	-7.4	226.9	8.04	9.43	.0065	21.47	.014	SI
670.	260.	3.	75168.	-13.6	577.3	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	-99941.	-18.1	767.6	4.02	10.22	.0219	32.64	.072	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
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>	0.	0.	3.	1.	-102326.	-18.5	785.9	4.02	10.22	.0225	32.64	.073	SI
	14.	14.	3.	1.	-89888.	-16.3	690.4	4.02	10.22	.0197	32.64	.064	SI
	30.	30.	3.	1.	-62195.	-11.3	477.7	4.02	10.22	.0136	32.64	.045	SI
	157.	157.	3.	1.	78478.	-14.2	602.8	4.02	10.22	.0172	32.64	.056	SI
	328.	328.	3.	2.	-175975.	-24.9	694.3	8.04	9.17	.0198	21.2	.042	SI
	410.	410.	3.	3.	-68438.	-8.7	268.6	8.04	9.43	.0077	21.47	.016	SI
>	410.	0.	3.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
	670.	260.	3.	1.	74529.	-13.5	572.4	4.02	10.22	.0164	32.64	.053	SI
	965.	555.	3.	1.	-92857.	-16.8	713.2	4.02	10.22	.0204	32.64	.067	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 62 - Travata T1e014 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinale= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecd=.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σ<sub>c</sub> (quasi permanente)= 93.4; fbd(esesercizio)= 23.8  
 ACCIAIO: σ<sub>f</sub> (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A497	3	3	3	0	405.	355.	10.125	1.3	1.608	34.169
2	A502	3	3	3	0	515.	475.	12.875	1.5	1.695	41.565
3	A520	3	3	3	0	410.	370.	10.25	1.5	2.405	62.707
4	A552	3	3	3	0	555.	515.	13.875	1.3	4.59	103.718

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
>	0.	0.	-409633.	-.057	.151	-547369.	-.35	2.346	3.	.13	1.336	SI
	0.	0.	236054.	-.029	.059	796796.	-.35	1.795	3.	.163	3.375	SI
	124.	124.	-52645.	-.007	.019	-547369.	-.35	2.346	3.	.13	10.4	SI
	202.	202.	495660.	-.064	.124	796796.	-.35	1.795	3.	.163	1.608	SI
	380.	380.	227904.	-.02	.029	1539128.	-.35	1.268	3.	.216	6.753	SI
	405.	405.	-590781.	-.054	.111	-1056361.	-.35	1.987	3.	.15	1.788	SI
	405.	405.	172266.	-.015	.022	1539128.	-.35	1.268	3.	.216	8.935	SI
>	405.	0.	-647442.	-.059	.121	-1056361.	-.35	1.987	3.	.15	1.632	SI
	405.	0.	57707.	-.005	.007	1539128.	-.35	1.268	3.	.216	26.67	SI
	579.	174.	-12502.	-.002	.005	-547369.	-.35	2.346	3.	.13	43.78	SI
	668.	262.	470148.	-.06	.118	796796.	-.35	1.795	3.	.163	1.695	SI
	920.	515.	-515150.	-.049	.097	-1054435.	-.35	1.899	3.	.156	2.047	SI
	920.	515.	75954.	-.007	.012	1297700.	-.35	1.512	3.	.188	17.09	SI
>	920.	0.	-463627.	-.044	.087	-1054435.	-.35	1.899	3.	.156	2.274	SI

920.	0.	3.	4.	90092.	-.008	.014	1297700.	-.35	1.512	3.	.188	14.4	SI
951.	31.	3.	5.	-427821.	-.05	.081	-1039699.	-.35	1.395	3.	.201	2.43	SI
951.	31.	3.	5.	128561.	-.016	.047	547697.	-.35	2.388	3.	.128	4.26	SI
1162.	242.	3.	6.	-5103.	-.001	.002	-546809.	-.35	2.278	3.	.133	107.1	SI
1203.	283.	3.	6.	227361.	-.033	.084	546809.	-.35	2.278	3.	.133	2.405	SI
1330.	410.	3.	7.	-314209.	-.031	.059	-1051660.	-.35	1.781	3.	.164	3.347	SI
1330.	410.	3.	7.	167156.	-.017	.031	1051660.	-.35	1.781	3.	.164	6.291	SI
>1330.	0.	3.	7.	-228810.	-.023	.043	-1051660.	-.35	1.781	3.	.164	4.596	SI
1330.	0.	3.	7.	111026.	-.011	.021	1051660.	-.35	1.781	3.	.164	9.472	SI
1371.	41.	3.	5.	-212131.	-.024	.04	-1039699.	-.35	1.395	3.	.201	4.901	SI
1371.	41.	3.	5.	118157.	-.015	.043	547697.	-.35	2.388	3.	.128	4.635	SI
1415.	85.	3.	5.	119327.	-.015	.044	547697.	-.35	2.388	3.	.128	4.59	SI
1678.	348.	3.	6.	-17661.	-.002	.006	-546809.	-.35	2.278	3.	.133	30.96	SI
1885.	555.	3.	6.	-251422.	-.036	.093	-546809.	-.35	2.278	3.	.133	2.175	SI
1885.	555.	3.	6.	38504.	-.005	.014	546809.	-.35	2.278	3.	.133	14.2	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2460.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	8164.	3948.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3470.	4455.	24411.	24577.	1.01	9.	1.75	SI
163.	163.	3.	-4789.	5099.	19541.	11285.	1.01	28.	2.5	SI
405.	405.	3.	-8437.	3948.	28335.	14044.	1.01	9.	1.	SI
405.	405.	3.	1345.	3948.	28335.	14044.	1.01	9.	1.	SI
> 405.	0.	3.	-2028.	3948.	28335.	14044.	1.01	9.	1.	SI
405.	0.	3.	8442.	3948.	28335.	14044.	1.01	9.	1.	SI
446.	41.	3.	-2250.	5099.	28335.	14044.	1.01	9.	1.	SI
490.	85.	3.	-2857.	4455.	24411.	24577.	1.01	9.	1.75	SI
920.	515.	3.	-8593.	3948.	28335.	14044.	1.01	9.	1.	SI
920.	515.	3.	1069.	3948.	28335.	14044.	1.01	9.	1.	SI
> 920.	0.	3.	-3034.	3948.	28335.	14044.	1.01	9.	1.	SI
920.	0.	3.	8024.	3948.	28335.	14044.	1.01	9.	1.	SI
973.	53.	3.	-3507.	4455.	28335.	14044.	1.01	9.	1.	SI
995.	75.	3.	-3780.	4455.	24411.	24577.	1.01	9.	1.75	SI
1330.	410.	3.	-7631.	3948.	28335.	14044.	1.01	9.	1.	SI
1330.	410.	3.	2930.	3948.	28335.	14044.	1.01	9.	1.	SI
>1330.	0.	3.	-1823.	3948.	28335.	14044.	1.01	9.	1.	SI
1330.	0.	3.	3913.	3948.	28335.	14044.	1.01	9.	1.	SI
1371.	41.	3.	-1874.	4455.	28335.	14044.	1.01	9.	1.	SI
1415.	85.	3.	-2016.	4455.	24411.	24577.	1.01	9.	1.75	SI
1885.	555.	3.	-3479.	3948.	28335.	14044.	1.01	9.	1.	SI
1885.	555.	3.	2128.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-262552.	-45.3	2016.4	4.02	10.33	.0597	32.87	.196	SI
16.	16.	3.	1.	-236795.	-40.8	1818.6	4.02	10.33	.052	32.87	.171	SI
202.	202.	3.	1.	348951.	-54.5	1813.5	6.03	9.64	.0627	24.94	.156	SI
405.	405.	3.	3.	-416364.	-48.7	1629.1	8.04	9.65	.059	21.69	.128	SI
> 405.	0.	3.	3.	-453175.	-53.	1773.1	8.04	9.65	.0659	21.69	.143	SI
668.	262.	3.	1.	330796.	-51.6	1719.2	6.03	9.64	.0582	24.94	.145	SI
920.	515.	3.	4.	-361172.	-44.1	1415.	8.04	9.54	.049	21.58	.106	SI
> 920.	0.	3.	4.	-325273.	-39.7	1274.4	8.04	9.54	.0423	21.58	.091	SI
1162.	242.	3.	6.	161668.	-29.3	1241.7	4.02	10.22	.0355	32.64	.116	SI
1330.	410.	3.	7.	-138420.	-17.7	543.3	8.04	9.43	.0155	21.47	.033	SI
>1330.	0.	3.	7.	-76867.	-9.8	301.7	8.04	9.43	.0086	21.47	.019	SI
1547.	217.	3.	6.	74755.	-13.6	574.2	4.02	10.22	.0164	32.64	.054	SI
1885.	555.	3.	6.	-139569.	-25.3	1072.	4.02	10.22	.0306	32.64	.1	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-159504.	-27.5	1225.	4.02	10.33	.035	32.87	.115	SI
16.	16.	3.	1.	-143082.	-24.7	1098.8	4.02	10.33	.0314	32.87	.103	SI
41.	41.	3.	1.	-68625.	-11.8	527.	4.02	10.33	.0151	32.87	.049	SI
202.	202.	3.	1.	225662.	-35.2	1172.8	6.03	9.64	.0335	24.94	.084	SI
405.	405.	3.	3.	-255657.	-29.9	1000.3	8.04	9.65	.0291	21.69	.063	SI
> 405.	0.	3.	3.	-286978.	-33.6	1122.8	8.04	9.65	.0349	21.69	.076	SI
668.	262.	3.	1.	214497.	-33.5	1114.8	6.03	9.64	.0319	24.94	.079	SI
920.	515.	3.	4.	-225884.	-27.6	885.	8.04	9.54	.0253	21.58	.055	SI
> 920.	0.	3.	4.	-229708.	-28.	900.	8.04	9.54	.0257	21.58	.055	SI
1120.	200.	3.	6.	137093.	-24.9	1053.	4.02	10.22	.0301	32.64	.098	SI
1330.	410.	3.	7.	-112028.	-14.3	439.7	8.04	9.43	.0126	21.47	.027	SI
>1330.	0.	3.	7.	-62473.	-8.	245.2	8.04	9.43	.007	21.47	.015	SI
1591.	261.	3.	6.	74891.	-13.6	575.2	4.02	10.22	.0164	32.64	.054	SI
1885.	555.	3.	6.	-115424.	-20.9	886.5	4.02	10.22	.0253	32.64	.083	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-193892.	-33.4	1489.1	4.02	10.33	.0425	32.87	.14	SI



16.	16.	3.	1.	-143965.	-24.8	1105.6	4.02	10.33	.0316	32.87	.104	SI
41.	41.	3.	1.	-66269.	-11.4	508.9	4.02	10.33	.0145	32.87	.048	SI
202.	202.	3.	1.	221856.	-34.6	1153.	6.03	9.64	.0329	24.94	.082	SI
405.	405.	3.	3.	-247527.	-29.	968.5	8.04	9.65	.0277	21.69	.06	SI
> 405.	0.	3.	3.	-277185.	-32.4	1084.5	8.04	9.65	.0331	21.69	.072	SI
668.	262.	3.	1.	211604.	-33.	1099.7	6.03	9.64	.0314	24.94	.078	SI
920.	515.	3.	4.	-216050.	-26.4	846.5	8.04	9.54	.0242	21.58	.052	SI
> 920.	0.	3.	4.	-209367.	-25.6	820.3	8.04	9.54	.0234	21.58	.051	SI
1120.	200.	3.	6.	127380.	-23.1	978.4	4.02	10.22	.028	32.64	.091	SI
1330.	410.	3.	7.	-126574.	-16.2	496.8	8.04	9.43	.0142	21.47	.03	SI
>1330.	0.	3.	7.	-59202.	-7.6	232.4	8.04	9.43	.0066	21.47	.014	SI
1591.	261.	3.	6.	74742.	-13.5	574.1	4.02	10.22	.0164	32.64	.054	SI
1885.	555.	3.	6.	-107906.	-19.6	828.8	4.02	10.22	.0237	32.64	.077	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16
4	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	3d16 +2d16
5	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
6	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
7	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 63 - Travata T1e015 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175.; fyk=4500.; Es=2100000.;  
 gs =1.15; fyd=3913.; ftd(k\*fyd)=4500.; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	λam.max
1	A521	3	3	3	0	410.	370.	10.25	1.3	4.085	92.313
2	A553	3	3	3	0	555.	515.	13.875	1.3	3.441	77.764

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-295798.	-.043	.109	-546809.	-.35	2.278	3.	.133	1.849	SI
0.	0.	3.	201040.	-.029	.074	546809.	-.35	2.278	3.	.133	2.72	SI
200.	200.	3.	-7946.	-.001	.003	-546809.	-.35	2.278	3.	.133	68.82	SI
325.	325.	3.	-175348.	-.02	.033	-1039699.	-.35	1.395	3.	.201	5.929	SI
325.	325.	3.	194746.	-.025	.072	547697.	-.35	2.388	3.	.128	2.812	SI
369.	369.	3.	235638.	-.023	.044	1051660.	-.35	1.781	3.	.164	4.463	SI
394.	394.	3.	257434.	-.026	.048	1051660.	-.35	1.781	3.	.164	4.085	SI
410.	410.	3.	-269359.	-.027	.051	-1051660.	-.35	1.781	3.	.164	3.904	SI

410.	410.	3.	3.	257434.	-.026	.048	1051660.	-.35	1.781	3.	.164	4.085	SI
> 410.	0.	3.	3.	-222169.	-.022	.042	-1051660.	-.35	1.781	3.	.164	4.734	SI
410.	0.	3.	3.	158481.	-.016	.03	1051660.	-.35	1.781	3.	.164	6.636	SI
450.	40.	3.	2.	-206527.	-.023	.039	-1039699.	-.35	1.395	3.	.201	5.034	SI
450.	40.	3.	2.	159074.	-.02	.059	547697.	-.35	2.388	3.	.128	3.443	SI
471.	61.	3.	2.	159152.	-.02	.059	547697.	-.35	2.388	3.	.128	3.441	SI
626.	216.	3.	1.	-14765.	-.002	.005	-546809.	-.35	2.278	3.	.133	37.03	SI
965.	555.	3.	1.	-285769.	-.042	.106	-546809.	-.35	2.278	3.	.133	1.913	SI
965.	555.	3.	1.	55351.	-.008	.02	546809.	-.35	2.278	3.	.133	9.879	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-3533.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	4606.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3709.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3709.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-4616.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	3406.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1965.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	3921.	3948.	28335.	14044.	1.01	9.	1.	SI
450.	40.	3.	-2013.	4455.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	-3622.	3948.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	2136.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-99995.	-18.1	768.	4.02	10.22	.0219	32.64	.072	SI
15.	15.	3.	1.	-93452.	-16.9	717.8	4.02	10.22	.0205	32.64	.067	SI
325.	325.	3.	2.	49111.	-8.1	377.2	4.02	10.43	.0108	33.07	.036	SI
410.	410.	3.	3.	-25596.	-3.3	100.5	8.04	9.43	.0029	21.47	.006	SI
410.	410.	3.	3.	41127.	-5.3	161.4	8.04	9.43	.0046	21.47	.01	SI
> 410.	0.	3.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
410.	0.	3.	3.	5259.	-.7	20.6	8.04	9.43	.0006	21.47	.001	SI
626.	216.	3.	1.	74687.	-13.5	573.7	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3.	1.	-152377.	-27.6	1170.4	4.02	10.22	.0334	32.64	.109	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-60735.	-11.	466.5	4.02	10.22	.0133	32.64	.044	SI
15.	15.	3.	1.	-55974.	-10.1	429.9	4.02	10.22	.0123	32.64	.04	SI
31.	31.	3.	1.	-45776.	-8.3	351.6	4.02	10.22	.01	32.64	.033	SI
242.	242.	3.	1.	34223.	-6.2	262.9	4.02	10.22	.0075	32.64	.025	SI
410.	410.	3.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
> 410.	0.	3.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
626.	216.	3.	1.	75110.	-13.6	576.9	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	1.	-125342.	-22.7	962.7	4.02	10.22	.0275	32.64	.09	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-50197.	-9.1	385.6	4.02	10.22	.011	32.64	.036	SI
15.	15.	3.	1.	-45905.	-8.3	352.6	4.02	10.22	.0101	32.64	.033	SI
31.	31.	3.	1.	-36709.	-6.7	282.	4.02	10.22	.0081	32.64	.026	SI
242.	242.	3.	1.	34139.	-6.2	262.2	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
> 410.	0.	3.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
670.	260.	3.	1.	74964.	-13.6	575.8	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	1.	-116898.	-21.2	897.9	4.02	10.22	.0257	32.64	.084	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 64 - Travata T1e016 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;

gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8

ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omomein.= 15

FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; A<sub>cl</sub>s=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A573	3	3	3	0	224.	184.	5.601	1.3	2.516	56.858
2	A578	3	3	3	0	355.	315.	8.875	1.3	4.258	96.217

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-189681.	-.027	.07	-546809.	-.35	2.278	3.	.133	2.883	SI
0.	0.	3.	1.	217318.	-.031	.08	546809.	-.35	2.278	3.	.133	2.516	SI
75.	75.	3.	1.	-14566.	-.002	.005	-546809.	-.35	2.278	3.	.133	37.54	SI
161.	161.	3.	2.	-285382.	-.033	.054	-1039699.	-.35	1.395	3.	.201	3.643	SI
161.	161.	3.	2.	116220.	-.015	.043	547697.	-.35	2.388	3.	.128	4.713	SI
183.	183.	3.	3.	113325.	-.011	.021	1051660.	-.35	1.781	3.	.164	9.28	SI
224.	224.	3.	3.	-483126.	-.049	.091	-1051660.	-.35	1.781	3.	.164	2.177	SI
224.	224.	3.	3.	77599.	-.008	.015	1051660.	-.35	1.781	3.	.164	13.55	SI
> 224.	0.	3.	3.	-282989.	-.028	.053	-1051660.	-.35	1.781	3.	.164	3.716	SI
224.	0.	3.	3.	246986.	-.025	.046	1051660.	-.35	1.781	3.	.164	4.258	SI
265.	41.	3.	2.	-250848.	-.028	.048	-1039699.	-.35	1.395	3.	.201	4.145	SI
265.	41.	3.	2.	233637.	-.03	.086	547697.	-.35	2.388	3.	.128	2.344	SI
387.	163.	3.	1.	-2179.	0.	.001	-546809.	-.35	2.278	3.	.133	250.9	SI
579.	355.	3.	1.	-369831.	-.054	.137	-546809.	-.35	2.278	3.	.133	1.479	SI
579.	355.	3.	1.	147346.	-.021	.054	546809.	-.35	2.278	3.	.133	3.711	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-4944.	3948.	28335.	18056.	1.01	7.	1.	SI
0.	0.	3.	1.	10247.	3948.	28335.	18056.	1.01	7.	1.	SI
75.	75.	3.	1.	-6443.	4455.	28335.	18056.	1.01	7.	1.	SI
75.	75.	3.	1.	-6443.	4455.	26485.	26182.	1.01	7.	1.45	SI
224.	224.	3.	1.	-9544.	3948.	28335.	18056.	1.01	7.	1.	SI
224.	224.	3.	1.	4648.	3948.	28335.	18056.	1.01	7.	1.	SI
> 224.	0.	3.	1.	-2869.	3948.	28335.	14044.	1.01	9.	1.	SI
224.	0.	3.	1.	6180.	3948.	28335.	14044.	1.01	9.	1.	SI
265.	41.	3.	1.	-3002.	4455.	28335.	14044.	1.01	9.	1.	SI
309.	85.	3.	1.	-3366.	4455.	24411.	24577.	1.01	9.	1.75	SI
579.	355.	3.	1.	-5477.	3948.	28335.	14044.	1.01	9.	1.	SI
579.	355.	3.	1.	3240.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	w <sub>d</sub>	Ve	
0.	0.	3.	1.	32500.	-5.9	249.6	4.02	10.22	.0071	32.64	.023	SI
75.	75.	3.	1.	121427.	-22.	932.7	4.02	10.22	.0266	32.64	.087	SI
224.	224.	3.	3.	-290939.	-37.2	1141.9	8.04	9.43	.0362	21.47	.078	SI
> 224.	0.	3.	3.	-62996.	-8.1	247.2	8.04	9.43	.0071	21.47	.015	SI
224.	0.	3.	3.	17991.	-2.3	70.6	8.04	9.43	.002	21.47	.004	SI
348.	124.	3.	1.	71959.	-13.	552.7	4.02	10.22	.0158	32.64	.052	SI
579.	355.	3.	1.	-160203.	-29.	1230.5	4.02	10.22	.0352	32.64	.115	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve	
0.	0.	3.	1.	5881.	-1.1	45.2	4.02	10.22	.0013	32.64	.004	SI
75.	75.	3.	1.	105251.	-19.1	808.4	4.02	10.22	.0231	32.64	.075	SI
224.	224.	3.	3.	-229905.	-29.4	902.3	8.04	9.43	.0258	21.47	.055	SI
> 224.	0.	3.	3.	-62998.	-8.1	247.2	8.04	9.43	.0071	21.47	.015	SI
387.	163.	3.	1.	72061.	-13.1	553.5	4.02	10.22	.0158	32.64	.052	SI
579.	355.	3.	1.	-122961.	-22.3	944.4	4.02	10.22	.027	32.64	.088	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-56783.	-10.3	436.1	4.02	10.22	.0125	32.64	.041	SI
75.	75.	3.	1.	98971.	-17.9	760.2	4.02	10.22	.0217	32.64	.071	SI
224.	224.	3.	3.	-210255.	-26.9	825.2	8.04	9.43	.0236	21.47	.051	SI
> 224.	0.	3.	3.	-62998.	-8.1	247.3	8.04	9.43	.0071	21.47	.015	SI
387.	163.	3.	1.	72151.	-13.1	554.2	4.02	10.22	.0158	32.64	.052	SI
579.	355.	3.	1.	-111983.	-20.3	860.1	4.02	10.22	.0246	32.64	.08	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 65 - Travata T1e017 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A522	3	3	3	0	410.	370.	10.25	1.3	4.145	93.67
2	A554	3	3	3	0	555.	515.	13.875	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAL PRINC16	
7.	SLU con SISMAY PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-296095.	-.043	.109	-546809.	-.35	2.278	3.	.133	1.847	SI
0.	0.	3.	1.	232949.	-.034	.086	546809.	-.35	2.278	3.	.133	2.347	SI
200.	200.	3.	1.	-9071.	-.001	.003	-546809.	-.35	2.278	3.	.133	60.28	SI
325.	325.	3.	2.	-197449.	-.022	.037	-1039699.	-.35	1.395	3.	.201	5.266	SI

325.	325.	3.	2.	191603.	-.024	.071	547697.	-.35	2.388	3.	.128	2.858	SI
369.	369.	3.	3.	232120.	-.023	.044	1051660.	-.35	1.781	3.	.164	4.531	SI
394.	394.	3.	3.	253703.	-.025	.048	1051660.	-.35	1.781	3.	.164	4.145	SI
410.	410.	3.	3.	-300397.	-.03	.057	-1051660.	-.35	1.781	3.	.164	3.501	SI
410.	410.	3.	3.	253703.	-.025	.048	1051660.	-.35	1.781	3.	.164	4.145	SI
> 410.	0.	3.	3.	-263290.	-.026	.05	-1051660.	-.35	1.781	3.	.164	3.994	SI
410.	0.	3.	3.	174479.	-.017	.033	1051660.	-.35	1.781	3.	.164	6.027	SI
451.	41.	3.	2.	-243784.	-.028	.046	-1039699.	-.35	1.395	3.	.201	4.265	SI
451.	41.	3.	2.	172564.	-.022	.064	547697.	-.35	2.388	3.	.128	3.174	SI
627.	217.	3.	1.	-17247.	-.002	.006	-546809.	-.35	2.278	3.	.133	31.7	SI
965.	555.	3.	1.	-319548.	-.047	.118	-546809.	-.35	2.278	3.	.133	1.711	SI
965.	555.	3.	1.	120435.	-.017	.044	546809.	-.35	2.278	3.	.133	4.54	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	4604.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3711.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3711.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-4618.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	3404.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1969.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	3918.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-2021.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2162.	24411.	24577.	1.01	9.	1.75	SI
965.	555.	3.	-3625.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	2133.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-84167.	-15.3	646.5	4.02	10.22	.0185	32.64	.06	SI
15.	15.	3.	-78271.	-14.2	601.2	4.02	10.22	.0172	32.64	.056	SI
283.	283.	3.	37860.	-6.9	290.8	4.02	10.22	.0083	32.64	.027	SI
410.	410.	3.	-41409.	-5.3	162.5	8.04	9.43	.0046	21.47	.01	SI
410.	410.	3.	22256.	-2.8	87.3	8.04	9.43	.0025	21.47	.005	SI
> 410.	0.	3.	-63152.	-8.1	247.9	8.04	9.43	.0071	21.47	.015	SI
627.	217.	3.	74956.	-13.6	575.7	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3.	-134128.	-24.3	1030.2	4.02	10.22	.0294	32.64	.096	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-45462.	-8.2	349.2	4.02	10.22	.01	32.64	.033	SI
15.	15.	3.	-41121.	-7.5	315.8	4.02	10.22	.009	32.64	.029	SI
31.	31.	3.	-31822.	-5.8	244.4	4.02	10.22	.007	32.64	.023	SI
200.	200.	3.	34044.	-6.2	261.5	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	-30247.	-3.9	118.7	8.04	9.43	.0034	21.47	.007	SI
> 410.	0.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
671.	261.	3.	74537.	-13.5	572.5	4.02	10.22	.0164	32.64	.053	SI
965.	555.	3.	-107630.	-19.5	826.7	4.02	10.22	.0236	32.64	.077	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-34744.	-6.3	266.9	4.02	10.22	.0076	32.64	.025	SI
15.	15.	3.	-30837.	-5.6	236.8	4.02	10.22	.0068	32.64	.022	SI
31.	31.	3.	-22466.	-4.1	172.6	4.02	10.22	.0049	32.64	.016	SI
200.	200.	3.	34182.	-6.2	262.5	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	-28743.	-3.7	112.8	8.04	9.43	.0032	21.47	.007	SI
> 410.	0.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
671.	261.	3.	74654.	-13.5	573.4	4.02	10.22	.0164	32.64	.053	SI
965.	555.	3.	-100196.	-18.2	769.6	4.02	10.22	.022	32.64	.072	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 66 - Travata T1e018 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO:  $\sigma$  f (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acls=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A523	3	3	3	0	410.	370.	10.25	1.3	1.919	43.357
2	A555	3	3	3	0	545.	495.	13.625	1.3	1.414	28.787

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-305568.	-.045!	.113!	-546809.	-.35	2.278	3.	.133	1.789	SI
0.	0.	3.	1.	284991.	-.041	.105	546809.	-.35	2.278	3.	.133	1.919	SI
200.	200.	3.	1.	-28402.	-.004	.01	-546809.	-.35	2.278	3.	.133	19.25	SI
325.	325.	3.	2.	174027.	-.022	.064	547697.	-.35	2.388	3.	.128	3.147	SI
369.	369.	3.	3.	213477.	-.019	.027	1539128.	-.35	1.268	3.	.216	7.21	SI
410.	410.	3.	3.	-378027.	-.034	.071	-1056361.	-.35	1.987	3.	.15	2.794	SI
410.	410.	3.	3.	234452.	-.021	.03	1539128.	-.35	1.268	3.	.216	6.565	SI
> 410.	0.	3.	3.	-713167.	-.066	.134	-1056361.	-.35	1.987	3.	.15	1.481	SI
410.	0.	3.	3.	162842.	-.014	.021	1539128.	-.35	1.268	3.	.216	9.452	SI
682.	272.	3.	5.	735381.	-.089!	.14	1039699.	-.35	1.395	3.	.201	1.414	SI
776.	366.	3.	5.	-8117.	-.001	.003	-547697.	-.35	2.388	3.	.128	67.47	SI
955.	545.	3.	4.	-819889.	-.086	.155!	-1051660.	-.35	1.781	3.	.164	1.283	SI
955.	545.	3.	4.	154940.	-.015	.029	1051660.	-.35	1.781	3.	.164	6.788	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-3553.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	5390.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3728.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3728.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-4636.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	4190.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-760.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	9356.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-1038.	5613.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-1797.	5613.	24411.	24577.	1.01	9.	1.75	SI
955.	545.	3.	-9316.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma$	$\sigma$ f	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-60177.	-10.9	462.2	4.02	10.22	.0132	32.64	.043	SI
15.	15.	3.	1.	-55935.	-10.1	429.6	4.02	10.22	.0123	32.64	.04	SI
15.	15.	3.	1.	18237.	-3.3	140.1	4.02	10.22	.004	32.64	.013	SI
117.	117.	3.	1.	34208.	-6.2	262.7	4.02	10.22	.0075	32.64	.025	SI
410.	410.	3.	3.	-104285.	-12.2	408.	8.04	9.65	.0117	21.69	.025	SI
> 410.	0.	3.	3.	-492805.	-57.6	1928.1	8.04	9.65	.0733	21.69	.159	SI
682.	272.	3.	5.	519565.	-73.5	2049.9	8.04	9.17	.0799	21.2	.169	SI

955. |545. |3. |4. | -570907. ! -73. |2240.7! 8.04| 9.43| .0885| 21.47| .19 !SI|

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	1792.	- .3	13.8	4.02	10.22	.0004	32.64	.001	SI
16.	16.	3.	-23440.	-4.2	180.	4.02	10.22	.0051	32.64	.017	SI
158.	158.	3.	34073.	-6.2	261.7	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	-82722.	-9.7	323.7	8.04	9.65	.0092	21.69	.02	SI
> 410.	0.	3.	-394312.	-46.1	1542.8	8.04	9.65	.0549	21.69	.119	SI
682.	272.	3.	435236.	-61.6	1717.2	8.04	9.17	.064	21.2	.136	SI
955.	545.	3.	-461516.	-59.	1811.3	8.04	9.43	.0681	21.47	.146	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-23771.	-4.3	182.6	4.02	10.22	.0052	32.64	.017	SI
31.	31.	3.	-18126.	-3.3	139.2	4.02	10.22	.004	32.64	.013	SI
158.	158.	3.	34335.	-6.2	263.7	4.02	10.22	.0075	32.64	.025	SI
410.	410.	3.	-77413.	-9.1	302.9	8.04	9.65	.0087	21.69	.019	SI
> 410.	0.	3.	-358357.	-41.9	1402.1	8.04	9.65	.0482	21.69	.105	SI
682.	272.	3.	401737.	-56.8	1585.	8.04	9.17	.0577	21.2	.122	SI
955.	545.	3.	-421396.	-53.9	1653.9	8.04	9.43	.0606	21.47	.13	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	2d16 +4d16
4	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
5	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 67 - Travata T1e019 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A524	3	3	3	0	410.	370.	10.25	1.3	2.331	49.536
2	A556	3	3	3	0	545.	495.	13.625	1.3	1.123	20.865

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-320670.	-.044	.118	-547369.	-.35	2.346	3.	.13	1.707	SI
0.	0.	3.	1.	341895.	-.043	.085	796796.	-.35	1.795	3.	.163	2.331	SI
200.	200.	3.	1.	37899.	-.005	.009	796796.	-.35	1.795	3.	.163	21.02	SI
369.	369.	3.	3.	203027.	-.014	.017	2276459.	-.35	1.038	3.	.252	11.21	SI
410.	410.	3.	3.	-460459.	-.032	.058	-1564082.	-.35	1.845	3.	.159	3.397	SI
410.	410.	3.	3.	224310.	-.016	.019	2276459.	-.35	1.038	3.	.252	10.15	SI
> 410.	0.	3.	3.	-1316095.	-.094	.166	-1564082.	-.35	1.845	3.	.159	1.188	SI
410.	0.	3.	3.	121576.	-.009	.01	2276459.	-.35	1.038	3.	.252	18.73	SI
682.	272.	3.	5.	1369976.	-.134	.177	1539128.	-.35	1.268	3.	.216	1.123	SI
955.	545.	3.	6.	-1422740.	-.116	.156	-1798471.	-.35	1.382	3.	.202	1.264	SI
955.	545.	3.	6.	116661.	-.009	.015	1558335.	-.35	1.682	3.	.172	13.36	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-5491.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	1.	6915.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	-5666.	4455.	24411.	24577.	1.01	9.	1.75	SI
369.	369.	3.	1.	-6527.	5099.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	1.	-6574.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	1.	5715.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	1.	-246.	3948.	28335.	18056.	1.01	7.	1.	SI
410.	0.	3.	1.	16000.	3948.	28335.	18056.	1.01	7.	1.	SI
451.	41.	3.	1.	-749.	6425.	28335.	18056.	1.01	7.	1.	SI
495.	85.	3.	1.	-2124.	6425.	26485.	26182.	1.01	7.	1.45	SI
955.	545.	3.	1.	-15737.	3948.	28335.	15799.	1.01	8.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-33955.	-5.9	260.8	4.02	10.33	.0075	32.87	.024	SI
15.	15.	3.	1.	31646.	-4.9	164.5	6.03	9.64	.0047	24.94	.012	SI
53.	53.	3.	1.	34089.	-5.3	177.2	6.03	9.64	.0051	24.94	.013	SI
283.	283.	3.	1.	-63957.	-11.	491.2	4.02	10.33	.014	32.87	.046	SI
410.	410.	3.	3.	-165834.	-15.1	436.1	12.06	9.26	.0125	18.16	.023	SI
> 410.	0.	3.	3.	-921953.	-84.2	2424.7	12.06	9.26	.1025	18.16	.186	SI
682.	272.	3.	5.	961804.	-108.1	2557.9	12.06	8.72	.1095	17.8	.195	SI
955.	545.	3.	6.	-997689.	-97.9	2274.7	14.07	8.67	.0973	16.92	.165	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-25779.	-4.4	198.	4.02	10.33	.0057	32.87	.019	SI
15.	15.	3.	1.	13593.	-2.1	70.6	6.03	9.64	.002	24.94	.005	SI
158.	158.	3.	1.	34372.	-5.4	178.6	6.03	9.64	.0051	24.94	.013	SI
283.	283.	3.	1.	-54335.	-9.4	417.3	4.02	10.33	.0119	32.87	.039	SI
410.	410.	3.	3.	-133936.	-12.2	352.2	12.06	9.26	.0101	18.16	.018	SI
> 410.	0.	3.	3.	-742669.	-67.8	1953.2	12.06	9.26	.0801	18.16	.145	SI
682.	272.	3.	5.	794499.	-89.3	2112.9	12.06	8.72	.0883	17.8	.157	SI
955.	545.	3.	6.	-808066.	-79.3	1842.3	14.07	8.67	.0768	16.92	.13	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-25945.	-4.5	199.3	4.02	10.33	.0057	32.87	.019	SI
15.	15.	3.	1.	8827.	-1.4	45.9	6.03	9.64	.0013	24.94	.003	SI
158.	158.	3.	1.	34462.	-5.4	179.1	6.03	9.64	.0051	24.94	.013	SI
283.	283.	3.	1.	-51503.	-8.9	395.5	4.02	10.33	.0113	32.87	.037	SI
410.	410.	3.	3.	-124413.	-11.4	327.2	12.06	9.26	.0093	18.16	.017	SI
> 410.	0.	3.	3.	-674283.	-61.6	1773.3	12.06	9.26	.0715	18.16	.13	SI
682.	272.	3.	5.	727874.	-81.8	1935.8	12.06	8.72	.0798	17.8	.142	SI
955.	545.	3.	6.	-735914.	-72.2	1677.8	14.07	8.67	.0689	16.92	.117	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	18.1	1.508	12.06	1.005	2d16 +4d16	6.03	.503	3d16
3	30.16	2.513	12.06	1.005	2d16 +4d16	18.1	1.508	3d16 +6d16
4	24.13	2.011	12.06	1.005	2d16 +4d16	12.06	1.005	6d16
5	20.11	1.676	8.04	.67	4d16	12.06	1.005	6d16
6	26.14	2.178	14.07	1.173	3d16 +4d16	12.06	1.005	6d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 68 - Travata T1e020 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5



MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecud=.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogenein.= 15  
FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A525	3	3	3	0	410.	370.	10.25	1.3	1.915	43.284
2	A557	3	3	3	0	545.	495.	13.625	1.3	1.427	29.06

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-464269.	-.069	.172	-546809.	-.35	2.278	3.	.133	1.178	SI
0.	0.	3.	1.	285468.	-.042	.105	546809.	-.35	2.278	3.	.133	1.915	SI
158.	158.	3.	1.	-29343.	-.004	.011	-546809.	-.35	2.278	3.	.133	18.64	SI
325.	325.	3.	2.	214459.	-.027	.079	547697.	-.35	2.388	3.	.128	2.554	SI
369.	369.	3.	3.	213823.	-.019	.027	1539128.	-.35	1.268	3.	.216	7.198	SI
410.	410.	3.	3.	-592790.	-.054	.111	-1056361.	-.35	1.987	3.	.15	1.782	SI
410.	410.	3.	3.	197203.	-.017	.025	1539128.	-.35	1.268	3.	.216	7.805	SI
> 410.	0.	3.	3.	-746057.	-.069	.14	-1056361.	-.35	1.987	3.	.15	1.416	SI
410.	0.	3.	3.	223803.	-.02	.029	1539128.	-.35	1.268	3.	.216	6.877	SI
682.	272.	3.	5.	728461.	-.088	.139	1039699.	-.35	1.395	3.	.201	1.427	SI
776.	366.	3.	5.	-37619.	-.005	.014	-547697.	-.35	2.388	3.	.128	14.56	SI
955.	545.	3.	4.	-823424.	-.086	.156	-1051660.	-.35	1.781	3.	.164	1.277	SI
955.	545.	3.	4.	213442.	-.021	.04	1051660.	-.35	1.781	3.	.164	4.927	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1724.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	7363.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2478.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2478.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-6375.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	2210.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-761.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	9355.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-1039.	5613.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-1799.	5613.	24411.	24577.	1.01	9.	1.75	SI
955.	545.	3.	-9318.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-139130.	-25.2	1068.6	4.02	10.22	.0305	32.64	.1	SI
31.	31.	3.	1.	-99185.	-18.	761.8	4.02	10.22	.0218	32.64	.071	SI
200.	200.	3.	1.	187587.	-34.	1440.8	4.02	10.22	.0412	32.64	.134	SI
410.	410.	3.	3.	-278047.	-32.5	1087.9	8.04	9.65	.0333	21.69	.072	SI
> 410.	0.	3.	3.	-510402.	-59.7	1997.	8.04	9.65	.0766	21.69	.166	SI

682.	272.	3.	5.	514652.!	-72.8!	2030.5!	8.04!	9.17!	.0789!	21.2!	.167!	SI!
955.	545.	3.	4.	-568019.!	-72.6!	2229.3!	8.04!	9.43!	.088!	21.47!	.189!	SI!

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-103790.!	-18.8!	797.2!	4.02!	10.22!	.0228!	32.64!	.074!	SI!
31.	31.	3.	1.	-71822.!	-13.!	551.7!	4.02!	10.22!	.0158!	32.64!	.051!	SI!
200.	200.	3.	1.	158928.!	-28.8!	1220.7!	4.02!	10.22!	.0349!	32.64!	.114!	SI!
410.	410.	3.	3.	-219061.!	-25.6!	857.1!	8.04!	9.65!	.0245!	21.69!	.053!	SI!
> 410.	0.	3.	3.	-405352.!	-47.4!	1586.!	8.04!	9.65!	.057!	21.69!	.124!	SI!
682.	272.	3.	5.	436579.!	-61.8!	1722.5!	8.04!	9.17!	.0643!	21.2!	.136!	SI!
955.	545.	3.	4.	-461041.!	-58.9!	1809.5!	8.04!	9.43!	.068!	21.47!	.146!	SI!

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-96704.!	-17.5!	742.8!	4.02!	10.22!	.0212!	32.64!	.069!	SI!
31.	31.	3.	1.	-67446.!	-12.2!	518.!	4.02!	10.22!	.0148!	32.64!	.048!	SI!
200.	200.	3.	1.	146883.!	-26.6!	1128.2!	4.02!	10.22!	.0322!	32.64!	.105!	SI!
410.	410.	3.	3.	-199487.!	-23.3!	780.5!	8.04!	9.65!	.0223!	21.69!	.048!	SI!
> 410.	0.	3.	3.	-366630.!	-42.9!	1434.5!	8.04!	9.65!	.0498!	21.69!	.108!	SI!
682.	272.	3.	5.	403207.!	-57.1!	1590.8!	8.04!	9.17!	.058!	21.2!	.123!	SI!
955.	545.	3.	4.	-422188.!	-54.!	1657.!	8.04!	9.43!	.0607!	21.47!	.13!	SI!

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	2d16 +4d16
4	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
5	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 69 - Travata T1e021 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A526	3	3	3	0	400.	350.	10.	1.3	1.248	28.201
2	A558	3	3	3	0	545.	495.	13.625	1.3	1.789	40.435

CASI DI CARICO DA MODELLO 3D

SLU			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
1.	SLU	1.	18.	Frequente	1.	21.	Quasi Perm	1.
2.	SLU VENTOX	2.	19.	Frequente VentOX	2.			
3.	SLU VENTOY	2.	20.	Frequente VentoY	2.			
6.	SLU con SISMAY PRINC16							
7.	SLU con SISMAY PRINC16							

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsc	Mrd	Epsc	Epsc	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-672273.	-.081	.128	-1039699.	-.35	1.395	3.	.201	1.547	SI
0.	0.	3.	438857.	-.057	.162	547697.	-.35	2.388	3.	.128	1.248	SI
162.	162.	3.	-50902.	-.007	.019	-546809.	-.35	2.278	3.	.133	10.74	SI
359.	359.	3.	282867.	-.028	.053	1051660.	-.35	1.781	3.	.164	3.718	SI
400.	400.	3.	-795256.	-.083	.15	-1051660.	-.35	1.781	3.	.164	1.322	SI
400.	400.	3.	262252.	-.026	.049	1051660.	-.35	1.781	3.	.164	4.01	SI
> 400.	0.	3.	-540773.	-.055	.102	-1051660.	-.35	1.781	3.	.164	1.945	SI
400.	0.	3.	243594.	-.024	.046	1051660.	-.35	1.781	3.	.164	4.317	SI
441.	41.	3.	277946.	-.036	.102	547697.	-.35	2.388	3.	.128	1.971	SI
719.	319.	3.	-12832.	-.002	.005	-546809.	-.35	2.278	3.	.133	42.62	SI
813.	413.	3.	306081.	-.039	.113	547697.	-.35	2.388	3.	.128	1.789	SI
945.	545.	3.	-638255.	-.076	.122	-1039699.	-.35	1.395	3.	.201	1.629	SI
945.	545.	3.	231266.	-.029	.085	547697.	-.35	2.388	3.	.128	2.368	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-1587.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	9242.	3948.	28335.	14044.	1.01	9.	1.
63.	63.	3.	-2282.	4455.	28335.	14044.	1.01	9.	1.
85.	85.	3.	-2684.	4455.	24411.	24577.	1.01	9.	1.75
400.	400.	3.	-7986.	3948.	28335.	14044.	1.01	9.	1.
400.	400.	3.	1929.	3948.	28335.	14044.	1.01	9.	1.
> 400.	0.	3.	-1646.	3948.	28335.	14044.	1.01	9.	1.
400.	0.	3.	6018.	3948.	28335.	14044.	1.01	9.	1.
441.	41.	3.	-1793.	4455.	28335.	14044.	1.01	9.	1.
485.	85.	3.	-2196.	4455.	24411.	24577.	1.01	9.	1.75
945.	545.	3.	-6185.	3948.	28335.	14044.	1.01	9.	1.
945.	545.	3.	1020.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
25.	25.	3.	-155744.	-22.	614.5	8.04	9.17	.0176	21.2	.037	SI
25.	25.	3.	880.	-.1	6.8	4.02	10.43	.0002	33.07	.001	SI
200.	200.	3.	249683.	-45.3	1917.8	4.02	10.22	.0554	32.64	.181	SI
400.	400.	3.	-349205.	-44.6	1370.5	8.04	9.43	.0471	21.47	.101	SI
> 400.	0.	3.	-214817.	-27.5	843.1	8.04	9.43	.0241	21.47	.052	SI
672.	272.	3.	211946.	-38.4	1627.9	4.02	10.22	.0465	32.64	.152	SI
945.	545.	3.	-275182.	-38.9	1085.7	8.04	9.17	.0339	21.2	.072	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
25.	25.	3.	-116142.	-16.4	458.2	8.04	9.17	.0131	21.2	.028	SI
41.	41.	3.	-66834.	-9.5	263.7	8.04	9.17	.0075	21.2	.016	SI
200.	200.	3.	221939.	-40.2	1704.7	4.02	10.22	.0487	32.64	.159	SI
400.	400.	3.	-287771.	-36.8	1129.4	8.04	9.43	.0356	21.47	.076	SI
> 400.	0.	3.	-186642.	-23.9	732.5	8.04	9.43	.0209	21.47	.045	SI
672.	272.	3.	213379.	-38.7	1638.9	4.02	10.22	.0468	32.64	.153	SI
945.	545.	3.	-248075.	-35.1	978.8	8.04	9.17	.0288	21.2	.061	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
25.	25.	3.	-110962.	-15.7	437.8	8.04	9.17	.0125	21.2	.027	SI
41.	41.	3.	-64782.	-9.2	255.6	8.04	9.17	.0073	21.2	.015	SI
200.	200.	3.	209868.	-38.	1612.	4.02	10.22	.0461	32.64	.15	SI
400.	400.	3.	-268731.	-34.3	1054.7	8.04	9.43	.032	21.47	.069	SI
> 400.	0.	3.	-179170.	-22.9	703.2	8.04	9.43	.0201	21.47	.043	SI
672.	272.	3.	213194.	-38.6	1637.5	4.02	10.22	.0468	32.64	.153	SI
945.	545.	3.	-241549.	-34.2	953.	8.04	9.17	.0276	21.2	.059	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	12.06	1.005	8.04	.67	2d16	4.02	.335	2d16
2	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 70 - Travata T1e022 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8

ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15

FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A489	3	3	3	0	309.	279.	7.736	1.	2.298	35.999

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-405573.	!-.048!	.101!	-799812.	-.35	1.963	3.	.151	1.972	SI
0.	0.	3.	1.	347981.	!-.041!	.087!	799812.	-.35	1.963	3.	.151	2.298	SI
155.	155.	3.	1.	-15634.	!-.002!	.004!	-799812.	-.35	1.963	3.	.151	51.16	SI
309.	309.	3.	1.	-366045.	!-.043!	.091!	-799812.	-.35	1.963	3.	.151	2.185	SI
309.	309.	3.	1.	199547.	!-.023!	.05!	799812.	-.35	1.963	3.	.151	4.008	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-3505.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	1.	6750.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	-4054.	5099.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	-4054.	5099.	24411.	24577.	1.01	9.	1.75	SI
309.	309.	3.	1.	-6596.	3948.	28335.	14044.	1.01	9.	1.	SI
309.	309.	3.	1.	3385.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-47323.	!-7.	245.5	6.03	9.76	.007	25.11	.018	SI
115.	115.	3.	1.	88683.	!-13.1	460.1	6.03	9.76	.0131	25.11	.033	SI
309.	309.	3.	1.	-106466.	!-15.8!	552.3	6.03	9.76	.0158	25.11	.04	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-49851.	!-7.4	258.6	6.03	9.76	.0074	25.11	.019	SI
115.	115.	3.	1.	86055.	!-12.8	446.5	6.03	9.76	.0128	25.11	.032	SI
309.	309.	3.	1.	-91860.	!-13.6!	476.6	6.03	9.76	.0136	25.11	.034	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-50482.	!-7.5	261.9	6.03	9.76	.0075	25.11	.019	SI
155.	155.	3.	1.	86587.	!-12.8	449.2	6.03	9.76	.0128	25.11	.032	SI
309.	309.	3.	1.	-86610.	!-12.8!	449.3	6.03	9.76	.0128	25.11	.032	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	% Super.	% Infer.	Barre	Barre

1|12.06|1.005| 6.03| .503|3d16 | 6.03| .503|3d16 |

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 156 - Travata T1e023 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A574	3	3	3	0	326.	286.	8.146	1.3	1.249	28.226
2	A579	3	3	3	0	360.	320.	9.003	1.3	3.66	82.704

CASI DI CARICO DA MODELLO 3D

SLU			RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
1.	SLU	1.	15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
2.	SLU VENTOX	2.	16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
3.	SLU VENTOY	2.	17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			
6.	SLU con SISMAX PRINC16										
7.	SLU con SISMAX PRINC16										

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-382040.	-.056	.141	-546809.	-.35	2.278	3.	.133	1.431	SI
0.	0.	3.	1.	199396.	-.029	.074	546809.	-.35	2.278	3.	.133	2.742	SI
158.	158.	3.	1.	437760.	-.065	.162	546809.	-.35	2.278	3.	.133	1.249	SI
199.	199.	3.	1.	-40852.	-.006	.015	-546809.	-.35	2.278	3.	.133	13.39	SI
241.	241.	3.	2.	-221631.	-.025	.042	-1039699.	-.35	1.395	3.	.201	4.691	SI
241.	241.	3.	2.	344712.	-.044	.127	547697.	-.35	2.388	3.	.128	1.589	SI
301.	301.	3.	3.	234807.	-.023	.044	1051660.	-.35	1.781	3.	.164	4.479	SI
326.	326.	3.	3.	-628380.	-.065	.119	-1051660.	-.35	1.781	3.	.164	1.674	SI
326.	326.	3.	3.	149223.	-.015	.028	1051660.	-.35	1.781	3.	.164	7.048	SI
> 326.	0.	3.	3.	-225852.	-.022	.042	-1051660.	-.35	1.781	3.	.164	4.656	SI
326.	0.	3.	3.	287343.	-.029	.054	1051660.	-.35	1.781	3.	.164	3.66	SI
389.	63.	3.	2.	-172241.	-.019	.033	-1039699.	-.35	1.395	3.	.201	6.036	SI
389.	63.	3.	2.	225101.	-.029	.083	547697.	-.35	2.388	3.	.128	2.433	SI
491.	165.	3.	1.	-34182.	-.005	.013	-546809.	-.35	2.278	3.	.133	16.	SI
686.	360.	3.	1.	-329428.	-.048	.122	-546809.	-.35	2.278	3.	.133	1.66	SI
686.	360.	3.	1.	160313.	-.023	.059	546809.	-.35	2.278	3.	.133	3.411	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-602.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	9279.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2514.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2514.	4455.	24411.	24577.	1.01	9.	1.75	SI
326.	326.	3.	-9419.	3948.	28335.	14044.	1.01	9.	1.	SI
> 326.	0.	3.	-4070.	3948.	28335.	14044.	1.01	9.	1.	SI
326.	0.	3.	5173.	3948.	28335.	14044.	1.01	9.	1.	SI
367.	41.	3.	-4117.	4455.	28335.	14044.	1.01	9.	1.	SI
411.	85.	3.	-4245.	4455.	24411.	24577.	1.01	9.	1.75	SI

686. | 360. | 3. | -5004. | 3948. | 28335. | 14044. | 1.01 | 9. | 1. | SI |  
 686. | 360. | 3. | 4123. | 3948. | 28335. | 14044. | 1.01 | 9. | 1. | SI |

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-193330.	-35.	1484.9	4.02	10.22	.0424	32.64	.138	SI
158.	158.	3. 1.	306633.	-55.6	2355.2	4.02	10.22	.0762	32.64	.249	SI
326.	326.	3. 3.	-431167.	-55.1	1692.2	8.04	9.43	.0624	21.47	.134	SI
> 326.	0.	3. 3.	-22490.	-2.9	88.3	8.04	9.43	.0025	21.47	.005	SI
326.	0.	3. 3.	63761.	-8.1	250.2	8.04	9.43	.0071	21.47	.015	SI
686.	360.	3. 1.	-133567.	-24.2	1025.9	4.02	10.22	.0293	32.64	.096	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-161254.	-29.2	1238.6	4.02	10.22	.0354	32.64	.116	SI
158.	158.	3. 1.	255969.	-46.4	1966.	4.02	10.22	.0577	32.64	.188	SI
326.	326.	3. 3.	-344456.	-44.	1351.9	8.04	9.43	.0462	21.47	.099	SI
> 326.	0.	3. 3.	-22490.	-2.9	88.3	8.04	9.43	.0025	21.47	.005	SI
326.	0.	3. 3.	29610.	-3.8	116.2	8.04	9.43	.0033	21.47	.007	SI
367.	41.	3. 3.	32763.	-4.2	128.6	8.04	9.43	.0037	21.47	.008	SI
686.	360.	3. 1.	-98206.	-17.8	754.3	4.02	10.22	.0216	32.64	.07	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-148237.	-26.9	1138.6	4.02	10.22	.0325	32.64	.106	SI
158.	158.	3. 1.	233262.	-42.3	1791.6	4.02	10.22	.0512	32.64	.167	SI
326.	326.	3. 3.	-313232.	-40.	1229.4	8.04	9.43	.0404	21.47	.087	SI
> 326.	0.	3. 3.	-22490.	-2.9	88.3	8.04	9.43	.0025	21.47	.005	SI
326.	0.	3. 3.	20912.	-2.7	82.1	8.04	9.43	.0023	21.47	.005	SI
411.	85.	3. 2.	26916.	-4.4	206.7	4.02	10.43	.0059	33.07	.02	SI
686.	360.	3. 1.	-88013.	-16.	676.	4.02	10.22	.0193	32.64	.063	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 71 - Travata T2e001 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A627	3	3	3	0	435.	405.	10.875	1.3	3.003	67.85
2	A628	3	3	3	0	435.	405.	10.875	1.5	4.523	117.922
3	A629	3	3	3	0	500.	460.	12.5	1.5	2.497	65.118
4	A630	3	3	3	0	380.	330.	9.5	1.5	3.548	92.521
5	A631	3	3	3	0	415.	365.	10.375	1.5	1.673	41.04
6	A632	3	3	3	0	435.	385.	10.875	1.5	1.926	47.237
7	A633	3	3	3	0	455.	405.	11.375	1.5	2.244	55.028
8	A634	3	3	3	0	435.	385.	10.875	1.5	1.92	47.089
9	A635	3	3	3	0	435.	385.	10.875	1.5	1.907	46.767
10	A636	3	3	3	0	295.	255.	7.375	1.3	3.624	81.897

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX	PRINC16
7.	SLU con SISMAX	PRINC16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-252579.	-.037	.093	-546809.	-.35	2.278	3.	.133	2.165	SI
0.	0.	3. 1.	115964.	-.017	.043	546809.	-.35	2.278	3.	.133	4.715	SI
116.	116.	3. 1.	182110.	-.026	.067	546809.	-.35	2.278	3.	.133	3.003	SI
319.	319.	3. 2.	-65149.	-.007	.012	-1039699.	-.35	1.395	3.	.201	15.96	SI
319.	319.	3. 2.	142689.	-.018	.053	547697.	-.35	2.388	3.	.128	3.838	SI
419.	419.	3. 3.	70846.	-.007	.013	1051660.	-.35	1.781	3.	.164	14.84	SI
435.	435.	3. 3.	-285826.	-.029	.054	-1051660.	-.35	1.781	3.	.164	3.679	SI
435.	435.	3. 3.	51321.	-.005	.01	1051660.	-.35	1.781	3.	.164	20.49	SI
> 435.	0.	3. 3.	-235222.	-.023	.044	-1051660.	-.35	1.781	3.	.164	4.471	SI
435.	0.	3. 3.	110076.	-.011	.021	1051660.	-.35	1.781	3.	.164	9.554	SI
488.	53.	3. 2.	-175382.	-.02	.033	-1039699.	-.35	1.395	3.	.201	5.928	SI
488.	53.	3. 2.	121100.	-.015	.045	547697.	-.35	2.388	3.	.128	4.523	SI
591.	156.	3. 1.	-12216.	-.002	.004	-546809.	-.35	2.278	3.	.133	44.76	SI
839.	404.	3. 2.	-357379.	-.041	.068	-1039699.	-.35	1.395	3.	.201	2.909	SI
870.	435.	3. 3.	-376204.	-.038	.071	-1051660.	-.35	1.781	3.	.164	2.795	SI
870.	435.	3. 3.	68662.	-.007	.013	1051660.	-.35	1.781	3.	.164	15.32	SI
> 870.	0.	3. 3.	-261977.	-.026	.049	-1051660.	-.35	1.781	3.	.164	4.014	SI
870.	0.	3. 3.	16090.	-.002	.003	1051660.	-.35	1.781	3.	.164	65.36	SI
901.	31.	3. 2.	-243657.	-.028	.046	-1039699.	-.35	1.395	3.	.201	4.267	SI
901.	31.	3. 2.	68459.	-.009	.025	547697.	-.35	2.388	3.	.128	8.	SI
1115.	245.	3. 1.	218946.	-.032	.081	546809.	-.35	2.278	3.	.133	2.497	SI
1354.	484.	3. 3.	4953.	0.	.001	1051660.	-.35	1.781	3.	.164	212.3	SI
1370.	500.	3. 3.	-291936.	-.029	.055	-1051660.	-.35	1.781	3.	.164	3.602	SI
>1370.	0.	3. 3.	-509843.	-.052	.096	-1051660.	-.35	1.781	3.	.164	2.063	SI
1370.	0.	3. 3.	190547.	-.019	.036	1051660.	-.35	1.781	3.	.164	5.519	SI
1411.	41.	3. 2.	-466450.	-.054	.089	-1039699.	-.35	1.395	3.	.201	2.229	SI
1411.	41.	3. 2.	180009.	-.023	.066	547697.	-.35	2.388	3.	.128	3.043	SI
1581.	211.	3. 1.	-38812.	-.005	.014	-546809.	-.35	2.278	3.	.133	14.09	SI
1709.	339.	3. 2.	331579.	-.043	.122	547697.	-.35	2.388	3.	.128	1.652	SI
1725.	355.	3. 4.	353509.	-.033	.054	1297700.	-.35	1.512	3.	.188	3.671	SI
1734.	364.	3. 4.	365706.	-.034	.056	1297700.	-.35	1.512	3.	.188	3.548	SI
1750.	380.	3. 4.	-338245.	-.032	.063	-1054435.	-.35	1.899	3.	.156	3.117	SI
1750.	380.	3. 4.	365706.	-.034	.056	1297700.	-.35	1.512	3.	.188	3.548	SI
>1750.	0.	3. 4.	-523501.	-.05	.098	-1054435.	-.35	1.899	3.	.156	2.014	SI
1750.	0.	3. 4.	37366.	-.003	.006	1297700.	-.35	1.512	3.	.188	34.73	SI
1876.	126.	3. 6.	-29280.	-.004	.011	-547369.	-.35	2.346	3.	.13	18.69	SI
1958.	208.	3. 6.	476168.	-.061	.119	796796.	-.35	1.795	3.	.163	1.673	SI
2140.	390.	3. 7.	137086.	-.012	.017	1539128.	-.35	1.268	3.	.216	11.23	SI
2165.	415.	3. 7.	-530953.	-.048	.1	-1056361.	-.35	1.987	3.	.15	1.99	SI
2165.	415.	3. 7.	45558.	-.004	.006	1539128.	-.35	1.268	3.	.216	33.78	SI
>2165.	0.	3. 7.	-516282.	-.047	.097	-1056361.	-.35	1.987	3.	.15	2.046	SI
2165.	0.	3. 7.	76883.	-.007	.01	1539128.	-.35	1.268	3.	.216	20.02	SI
2294.	129.	3. 6.	-76595.	-.01	.028	-547369.	-.35	2.346	3.	.13	7.146	SI
2382.	218.	3. 6.	413701.	-.053	.104	796796.	-.35	1.795	3.	.163	1.926	SI
2600.	435.	3. 7.	-462164.	-.042	.087	-1056361.	-.35	1.987	3.	.15	2.286	SI
2600.	435.	3. 7.	92335.	-.008	.012	1539128.	-.35	1.268	3.	.216	16.67	SI
>2600.	0.	3. 7.	-461796.	-.042	.087	-1056361.	-.35	1.987	3.	.15	2.288	SI
2600.	0.	3. 7.	119116.	-.01	.015	1539128.	-.35	1.268	3.	.216	12.92	SI
2641.	41.	3. 5.	204771.	-.022	.051	801560.	-.35	2.074	3.	.144	3.914	SI
2848.	248.	3. 6.	355126.	-.045	.089	796796.	-.35	1.795	3.	.163	2.244	SI
3055.	455.	3. 7.	-450279.	-.041	.084	-1056361.	-.35	1.987	3.	.15	2.346	SI
3055.	455.	3. 7.	124492.	-.011	.016	1539128.	-.35	1.268	3.	.216	12.36	SI
>3055.	0.	3. 7.	-489472.	-.044	.092	-1056361.	-.35	1.987	3.	.15	2.158	SI
3055.	0.	3. 7.	79839.	-.007	.01	1539128.	-.35	1.268	3.	.216	19.28	SI
3184.	129.	3. 6.	-64569.	-.009	.024	-547369.	-.35	2.346	3.	.13	8.477	SI
3272.	218.	3. 6.	414999.	-.053	.104	796796.	-.35	1.795	3.	.163	1.92	SI
3490.	435.	3. 7.	-485505.	-.044	.091	-1056361.	-.35	1.987	3.	.15	2.176	SI
3490.	435.	3. 7.	81803.	-.007	.01	1539128.	-.35	1.268	3.	.216	18.82	SI
>3490.	0.	3. 7.	-504261.	-.046	.095	-1056361.	-.35	1.987	3.	.15	2.095	SI
3490.	0.	3. 7.	65379.	-.006	.008	1539128.	-.35	1.268	3.	.216	23.54	SI
3619.	129.	3. 6.	-64739.	-.009	.024	-547369.	-.35	2.346	3.	.13	8.455	SI
3708.	218.	3. 6.	417855.	-.053	.105	796796.	-.35	1.795	3.	.163	1.907	SI
3925.	435.	3. 8.	-452208.	-.043	.085	-1054435.	-.35	1.899	3.	.156	2.332	SI
3925.	435.	3. 8.	83865.	-.008	.013	1297700.	-.35	1.512	3.	.188	15.47	SI
>3925.	0.	3. 8.	-286238.	-.027	.054	-1054435.	-.35	1.899	3.	.156	3.684	SI
3925.	0.	3. 8.	125349.	-.012	.019	1297700.	-.35	1.512	3.	.188	10.35	SI
3966.	41.	3. 2.	-248647.	-.028	.047	-1039699.	-.35	1.395	3.	.201	4.181	SI
3966.	41.	3. 2.	125993.	-.016	.046	547697.	-.35	2.388	3.	.128	4.347	SI

4111.	186.	3.	1.	-44348.	-.006	.016	-546809.	-.35	2.278	3.	.133	12.33	SI
4204.	279.	3.	1.	150876.	-.022	.056	546809.	-.35	2.278	3.	.133	3.624	SI
4220.	295.	3.	1.	-246537.	-.036	.091	-546809.	-.35	2.278	3.	.133	2.218	SI
4220.	295.	3.	1.	150876.	-.022	.056	546809.	-.35	2.278	3.	.133	3.624	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2022.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	5440.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2561.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2561.	4455.	24411.	24577.	1.01	9.	1.75	SI
435.	435.	3.	-5659.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	435.	3.	1534.	3948.	28335.	14044.	1.01	9.	1.	SI
> 435.	0.	3.	-3582.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	0.	3.	6436.	3948.	28335.	14044.	1.01	9.	1.	SI
488.	53.	3.	-3879.	4455.	28335.	14044.	1.01	9.	1.	SI
510.	75.	3.	-4051.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	435.	3.	-6749.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	435.	3.	3034.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	-2082.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	0.	3.	6404.	3948.	28335.	14044.	1.01	9.	1.	SI
923.	53.	3.	-2427.	4455.	28335.	14044.	1.01	9.	1.	SI
945.	75.	3.	-2626.	4455.	24411.	24577.	1.01	9.	1.75	SI
1370.	500.	3.	-6255.	3948.	28335.	14044.	1.01	9.	1.	SI
1370.	500.	3.	2095.	3948.	28335.	14044.	1.01	9.	1.	SI
>1370.	0.	3.	-4164.	3948.	28335.	14044.	1.01	9.	1.	SI
1370.	0.	3.	7273.	3948.	28335.	14044.	1.01	9.	1.	SI
1411.	41.	3.	-4281.	4455.	28335.	14044.	1.01	9.	1.	SI
1455.	85.	3.	-4601.	4455.	24411.	24577.	1.01	9.	1.75	SI
1750.	380.	3.	-6571.	3948.	28335.	14044.	1.01	9.	1.	SI
1750.	380.	3.	4501.	3948.	28335.	14044.	1.01	9.	1.	SI
>1750.	0.	3.	-1591.	3948.	28335.	14044.	1.01	9.	1.	SI
1750.	0.	3.	10762.	3948.	28335.	14044.	1.01	9.	1.	SI
1791.	41.	3.	-1954.	5099.	28335.	14044.	1.01	9.	1.	SI
1835.	85.	3.	-2949.	4455.	24411.	24577.	1.01	9.	1.75	SI
2165.	415.	3.	-9852.	3948.	28335.	14044.	1.01	9.	1.	SI
2165.	415.	3.	1369.	3948.	28335.	14044.	1.01	9.	1.	SI
>2165.	0.	3.	-1903.	3948.	28335.	14044.	1.01	9.	1.	SI
2165.	0.	3.	10185.	3948.	28335.	14044.	1.01	9.	1.	SI
2206.	41.	3.	-2227.	5099.	28335.	14044.	1.01	9.	1.	SI
2250.	85.	3.	-3115.	4455.	24411.	24577.	1.01	9.	1.75	SI
2600.	435.	3.	-9680.	3948.	28335.	14044.	1.01	9.	1.	SI
2600.	435.	3.	1398.	3948.	28335.	14044.	1.01	9.	1.	SI
>2600.	0.	3.	-1892.	3948.	28335.	14044.	1.01	9.	1.	SI
2600.	0.	3.	9631.	3948.	28335.	14044.	1.01	9.	1.	SI
2641.	41.	3.	-2181.	5099.	28335.	14044.	1.01	9.	1.	SI
2685.	85.	3.	-2971.	4455.	24411.	24577.	1.01	9.	1.75	SI
3055.	455.	3.	-9174.	3948.	28335.	14044.	1.01	9.	1.	SI
3055.	455.	3.	1450.	3948.	28335.	14044.	1.01	9.	1.	SI
>3055.	0.	3.	-1903.	3948.	28335.	14044.	1.01	9.	1.	SI
3055.	0.	3.	10185.	3948.	28335.	14044.	1.01	9.	1.	SI
3096.	41.	3.	-2227.	5099.	28335.	14044.	1.01	9.	1.	SI
3140.	85.	3.	-3115.	4455.	24411.	24577.	1.01	9.	1.75	SI
3490.	435.	3.	-9680.	3948.	28335.	14044.	1.01	9.	1.	SI
3490.	435.	3.	1398.	3948.	28335.	14044.	1.01	9.	1.	SI
>3490.	0.	3.	-1904.	3948.	28335.	14044.	1.01	9.	1.	SI
3490.	0.	3.	10251.	3948.	28335.	14044.	1.01	9.	1.	SI
3531.	41.	3.	-2228.	5099.	28335.	14044.	1.01	9.	1.	SI
3575.	85.	3.	-3116.	4455.	24411.	24577.	1.01	9.	1.75	SI
3925.	435.	3.	-9681.	3948.	28335.	14044.	1.01	9.	1.	SI
3925.	435.	3.	1464.	3948.	28335.	14044.	1.01	9.	1.	SI
>3925.	0.	3.	-4314.	3948.	28335.	14044.	1.01	9.	1.	SI
3925.	0.	3.	7075.	3948.	28335.	14044.	1.01	9.	1.	SI
3966.	41.	3.	-4467.	4455.	28335.	14044.	1.01	9.	1.	SI
4010.	85.	3.	-4886.	4455.	24411.	24577.	1.01	9.	1.75	SI
4220.	295.	3.	-6746.	3948.	28335.	14044.	1.01	9.	1.	SI
4220.	295.	3.	4261.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-85215.	-15.4	654.5	4.02	10.22	.0187	32.64	.061	SI
31.	31.	3.	1.	-57748.	-10.5	443.5	4.02	10.22	.0127	32.64	.041	SI
197.	197.	3.	1.	126502.	-22.9	971.6	4.02	10.22	.0278	32.64	.091	SI
435.	435.	3.	3.	-147946.	-18.9	580.6	8.04	9.43	.0166	21.47	.036	SI
> 435.	0.	3.	3.	-84098.	-10.7	330.1	8.04	9.43	.0094	21.47	.02	SI
632.	197.	3.	1.	85231.	-15.5	654.6	4.02	10.22	.0187	32.64	.061	SI
870.	435.	3.	3.	-179370.	-22.9	704.	8.04	9.43	.0201	21.47	.043	SI
> 870.	0.	3.	3.	-164879.	-21.1	647.1	8.04	9.43	.0185	21.47	.04	SI
1115.	245.	3.	1.	153129.	-27.8	1176.2	4.02	10.22	.0336	32.64	.11	SI
1370.	500.	3.	3.	-201395.	-25.7	790.4	8.04	9.43	.0226	21.47	.048	SI
>1370.	0.	3.	3.	-188389.	-24.1	739.4	8.04	9.43	.0211	21.47	.045	SI
1623.	253.	3.	1.	56096.	-10.2	430.9	4.02	10.22	.0123	32.64	.04	SI



1750.	380.	3.	4.	-55592.	-6.8	217.8	8.04	9.54	.0062	21.58	.013	SI
1750.	380.	3.	4.	18360.	-2.2	58.1	10.05	9.05	.0017	19.24	.003	SI
>1750.	0.	3.	4.	-355742.	-43.4	1393.7	8.04	9.54	.048	21.58	.104	SI
1958.	208.	3.	6.	332310.	-51.9	1727.	6.03	9.64	.0586	24.94	.146	SI
2165.	415.	3.	7.	-359229.	-42.	1405.5	8.04	9.65	.0484	21.69	.105	SI
>2165.	0.	3.	7.	-348589.	-40.8	1363.9	8.04	9.65	.0464	21.69	.101	SI
2382.	218.	3.	6.	288777.	-45.1	1500.8	6.03	9.64	.0478	24.94	.119	SI
2600.	435.	3.	7.	-307500.	-36.	1203.1	8.04	9.65	.0388	21.69	.084	SI
>2600.	0.	3.	7.	-297843.	-34.8	1165.3	8.04	9.65	.037	21.69	.08	SI
2848.	248.	3.	6.	247859.	-38.7	1288.1	6.03	9.64	.0377	24.94	.094	SI
3055.	455.	3.	7.	-281483.	-32.9	1101.3	8.04	9.65	.0339	21.69	.074	SI
>3055.	0.	3.	7.	-328959.	-38.5	1287.1	8.04	9.65	.0428	21.69	.093	SI
3272.	218.	3.	6.	289638.	-45.2	1505.3	6.03	9.64	.048	24.94	.12	SI
3490.	435.	3.	7.	-325762.	-38.1	1274.6	8.04	9.65	.0422	21.69	.091	SI
>3490.	0.	3.	7.	-340643.	-39.8	1332.8	8.04	9.65	.0449	21.69	.097	SI
3708.	218.	3.	6.	291573.	-45.5	1515.3	6.03	9.64	.0485	24.94	.121	SI
3925.	435.	3.	8.	-300845.	-36.7	1178.7	8.04	9.54	.0378	21.58	.082	SI
>3925.	0.	3.	8.	-88035.	-10.7	344.9	8.04	9.54	.0099	21.58	.021	SI
4078.	152.	3.	1.	67216.	-12.2	516.3	4.02	10.22	.0148	32.64	.048	SI
4220.	295.	3.	1.	-54311.	-9.8	417.2	4.02	10.22	.0119	32.64	.039	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-85293.	-15.5	655.1	4.02	10.22	.0187	32.64	.061	SI
31.	31.	3.	1.	-57908.	-10.5	444.8	4.02	10.22	.0127	32.64	.041	SI
197.	197.	3.	1.	127437.	-23.1	978.8	4.02	10.22	.028	32.64	.091	SI
435.	435.	3.	3.	-149521.	-19.1	586.8	8.04	9.43	.0168	21.47	.036	SI
>435.	0.	3.	3.	-84098.	-10.7	330.1	8.04	9.43	.0094	21.47	.02	SI
632.	197.	3.	1.	84513.	-15.3	649.1	4.02	10.22	.0185	32.64	.061	SI
870.	435.	3.	3.	-172950.	-22.1	678.8	8.04	9.43	.0194	21.47	.042	SI
>870.	0.	3.	3.	-161546.	-20.6	634.	8.04	9.43	.0181	21.47	.039	SI
1115.	245.	3.	1.	153140.	-27.8	1176.2	4.02	10.22	.0336	32.64	.11	SI
1370.	500.	3.	3.	-196758.	-25.1	772.2	8.04	9.43	.0221	21.47	.047	SI
>1370.	0.	3.	3.	-169381.	-21.6	664.8	8.04	9.43	.019	21.47	.041	SI
1623.	253.	3.	1.	55621.	-10.1	427.2	4.02	10.22	.0122	32.64	.04	SI
1750.	380.	3.	4.	-55592.	-6.8	217.8	8.04	9.54	.0062	21.58	.013	SI
1750.	380.	3.	4.	1681.	-2	5.3	10.05	9.05	.0002	19.24	0.	SI
>1750.	0.	3.	4.	-312648.	-38.2	1224.9	8.04	9.54	.04	21.58	.086	SI
1958.	208.	3.	6.	291063.	-45.4	1512.7	6.03	9.64	.0483	24.94	.121	SI
2165.	415.	3.	7.	-312577.	-36.6	1223.	8.04	9.65	.0397	21.69	.086	SI
>2165.	0.	3.	7.	-304264.	-35.6	1190.5	8.04	9.65	.0382	21.69	.083	SI
2382.	218.	3.	6.	253309.	-39.5	1316.5	6.03	9.64	.039	24.94	.097	SI
2600.	435.	3.	7.	-268878.	-31.5	1052.	8.04	9.65	.0316	21.69	.068	SI
>2600.	0.	3.	7.	-259627.	-30.4	1015.8	8.04	9.65	.0298	21.69	.065	SI
2848.	248.	3.	6.	217230.	-33.9	1129.	6.03	9.64	.0323	24.94	.08	SI
3055.	455.	3.	7.	-246167.	-28.8	963.2	8.04	9.65	.0275	21.69	.06	SI
>3055.	0.	3.	7.	-286976.	-33.6	1122.8	8.04	9.65	.0349	21.69	.076	SI
3272.	218.	3.	6.	253979.	-39.6	1319.9	6.03	9.64	.0392	24.94	.098	SI
3490.	435.	3.	7.	-284563.	-33.3	1113.4	8.04	9.65	.0345	21.69	.075	SI
>3490.	0.	3.	7.	-296913.	-34.7	1161.7	8.04	9.65	.0368	21.69	.08	SI
3708.	218.	3.	6.	255373.	-39.9	1327.2	6.03	9.64	.0395	24.94	.099	SI
3925.	435.	3.	8.	-262498.	-32.	1028.4	8.04	9.54	.0306	21.58	.066	SI
>3925.	0.	3.	8.	-82818.	-10.1	324.5	8.04	9.54	.0093	21.58	.02	SI
4078.	152.	3.	1.	67129.	-12.2	515.6	4.02	10.22	.0147	32.64	.048	SI
4220.	295.	3.	1.	-49655.	-9.	381.4	4.02	10.22	.0109	32.64	.036	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-85314.	-15.5	655.3	4.02	10.22	.0187	32.64	.061	SI
31.	31.	3.	1.	-57953.	-10.5	445.1	4.02	10.22	.0127	32.64	.042	SI
197.	197.	3.	1.	127203.	-23.1	977.	4.02	10.22	.0279	32.64	.091	SI
435.	435.	3.	3.	-149977.	-19.2	588.6	8.04	9.43	.0168	21.47	.036	SI
>435.	0.	3.	3.	-84098.	-10.7	330.1	8.04	9.43	.0094	21.47	.02	SI
632.	197.	3.	1.	84354.	-15.3	647.9	4.02	10.22	.0185	32.64	.06	SI
870.	435.	3.	3.	-170020.	-21.7	667.3	8.04	9.43	.0191	21.47	.041	SI
>870.	0.	3.	3.	-160511.	-20.5	630.	8.04	9.43	.018	21.47	.039	SI
1115.	245.	3.	1.	153165.	-27.8	1176.4	4.02	10.22	.0336	32.64	.11	SI
1370.	500.	3.	3.	-195745.	-25.	768.2	8.04	9.43	.0219	21.47	.047	SI
>1370.	0.	3.	3.	-164043.	-21.	643.8	8.04	9.43	.0184	21.47	.039	SI
1623.	253.	3.	1.	56193.	-10.2	431.6	4.02	10.22	.0123	32.64	.04	SI
1750.	380.	3.	4.	-55592.	-6.8	217.8	8.04	9.54	.0062	21.58	.013	SI
>1750.	0.	3.	4.	-294811.	-36.	1155.	8.04	9.54	.0366	21.58	.079	SI
1958.	208.	3.	6.	274527.	-42.9	1426.7	6.03	9.64	.0443	24.94	.11	SI
2165.	415.	3.	7.	-295117.	-34.5	1154.7	8.04	9.65	.0365	21.69	.079	SI
>2165.	0.	3.	7.	-286212.	-33.5	1119.8	8.04	9.65	.0348	21.69	.075	SI
2382.	218.	3.	6.	239126.	-37.3	1242.8	6.03	9.64	.0355	24.94	.089	SI
2600.	435.	3.	7.	-254125.	-29.7	994.3	8.04	9.65	.0288	21.69	.063	SI
>2600.	0.	3.	7.	-244303.	-28.6	955.9	8.04	9.65	.0273	21.69	.059	SI
2848.	248.	3.	6.	204978.	-32.	1065.3	6.03	9.64	.0304	24.94	.076	SI
3055.	455.	3.	7.	-232503.	-27.2	909.7	8.04	9.65	.026	21.69	.056	SI
>3055.	0.	3.	7.	-270373.	-31.6	1057.9	8.04	9.65	.0318	21.69	.069	SI
3272.	218.	3.	6.	239732.	-37.4	1245.9	6.03	9.64	.0356	24.94	.089	SI
3490.	435.	3.	7.	-268350.	-31.4	1049.9	8.04	9.65	.0315	21.69	.068	SI
>3490.	0.	3.	7.	-279554.	-32.7	1093.8	8.04	9.65	.0336	21.69	.073	SI
3708.	218.	3.	6.	240828.	-37.6	1251.6	6.03	9.64	.0359	24.94	.09	SI
3925.	435.	3.	8.	-247930.	-30.3	971.4	8.04	9.54	.0279	21.58	.06	SI

>3925.	0.	13.	8.	-80589.!	-9.8!	315.7!	8.04!	9.54!	.009	21.58!	.019!	SI
4078.	152.	3.	1.	66774.!	-12.1!	512.9!	4.02!	10.22!	.0147	32.64!	.048!	SI
4220.	295.	3.	1.	-58419.	-10.6!	448.7!	4.02!	10.22!	.0128	32.64!	.042!	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16
4	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	2d16 +3d16
5	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
6	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
7	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16
8	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	3d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 72 - Travata T2e002 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daNcm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecud=.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A659	3	3	3	0	435.	405.	10.875	1.3	1.389	29.513
2	A660	3	3	3	0	435.	405.	10.875	1.5	2.072	50.814
3	A661	3	3	3	0	510.	480.	12.75	1.5	1.489	34.993
4	A662	3	3	3	0	360.	330.	9.	1.5	2.148	56.016
5	A663	3	3	3	0	435.	405.	10.875	1.5	1.282	30.123
6	A664	3	3	3	0	435.	405.	10.875	1.5	1.471	34.569
7	A665	3	3	3	0	435.	405.	10.875	1.5	1.689	39.688
8	A666	3	3	3	0	435.	405.	10.875	1.5	1.745	45.493
9	A667	3	3	3	0	435.	405.	10.875	1.5	1.753	45.718
10	A669	3	3	3	0	307.	277.	7.68	1.3	1.391	31.441

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
>	0.	0.	3.	1.	-525086.	-.147!	.769!	-547369.	-.35	2.346	3.	.13 !1.042!	SI
	0.	0.	3.	1.	88306.	-.011	.022	796796.	-.35	1.795	3.	.163!9.023!	SI
	197.	197.	3.	1.	573847.	-.075!	.144!	796796.	-.35	1.795	3.	.163!1.389!	SI
	419.	419.	3.	3.	90059.	-.008	.011	1539128.	-.35	1.268	3.	.216!17.09!	SI
	435.	435.	3.	3.	-601144.	-.055!	.113!	-1056361.	-.35	1.987	3.	.15 !1.757!	SI
	435.	435.	3.	3.	27708.	-.002	.004	1539128.	-.35	1.268	3.	.216!55.55!	SI
>	435.	0.	3.	3.	-404850.	-.036	.076	-1056361.	-.35	1.987	3.	.15 !2.609!	SI
	435.	0.	3.	3.	105840.	-.009	.013	1539128.	-.35	1.268	3.	.216!14.54!	SI
	488.	53.	3.	2.	224732.	-.025	.056	801560.	-.35	2.074	3.	.144!3.567!	SI

632.	197.	3.	1.	384575.	-.049	.096	796796.	-.35	1.795	3.	.163	2.072	SI
839.	404.	3.	2.	-502244.	-.055	.095	-1047321.	-.35	1.62	3.	.178	2.085	SI
854.	419.	3.	4.	65017.	-.005	.007	1775074.	-.35	1.052	3.	.25	27.3	SI
870.	435.	3.	4.	-552180.	-.048	.103	-1057775.	-.35	2.055	3.	.146	1.916	SI
870.	435.	3.	4.	20521.	-.002	.002	1775074.	-.35	1.052	3.	.25	86.5	SI
> 870.	0.	3.	4.	-865230.	-.076	.162	-1057775.	-.35	2.055	3.	.146	1.223	SI
885.	15.	3.	4.	34116.	-.003	.004	1775074.	-.35	1.052	3.	.25	52.03	SI
1125.	255.	3.	6.	698036.	-.084	.133	1039699.	-.35	1.395	3.	.201	1.489	SI
1349.	479.	3.	5.	-887382.	-.094	.168	-1051660.	-.35	1.781	3.	.164	1.185	SI
1365.	495.	3.	7.	5004.	0.	.001	1539128.	-.35	1.268	3.	.216	307.6	SI
1380.	510.	3.	7.	-960212.	-.09	.181	-1056361.	-.35	1.987	3.	.15	1.1	SI
>1380.	0.	3.	7.	-330800.	-.03	.062	-1056361.	-.35	1.987	3.	.15	3.193	SI
1380.	0.	3.	7.	147759.	-.013	.019	1539128.	-.35	1.268	3.	.216	10.42	SI
1411.	31.	3.	8.	189867.	-.024	.07	547697.	-.35	2.388	3.	.128	2.885	SI
1581.	201.	3.	9.	-5055.	-.001	.002	-546809.	-.35	2.278	3.	.133	108.2	SI
1581.	201.	3.	9.	254523.	-.037	.094	546809.	-.35	2.278	3.	.133	2.148	SI
1709.	329.	3.	8.	-389222.	-.045	.074	-1039699.	-.35	1.395	3.	.201	2.671	SI
1740.	360.	3.	10.	-419464.	-.038	.079	-1056361.	-.35	1.987	3.	.15	2.518	SI
1740.	360.	3.	10.	150128.	-.013	.019	1539128.	-.35	1.268	3.	.216	10.25	SI
>1740.	0.	3.	10.	-900565.	-.084	.169	-1056361.	-.35	1.987	3.	.15	1.173	SI
1937.	197.	3.	6.	810883.	-.099	.155	1039699.	-.35	1.395	3.	.201	1.282	SI
2159.	419.	3.	11.	29394.	-.002	.003	1987021.	-.35	.758	3.	.316	67.6	SI
2160.	420.	3.	11.	22538.	-.002	.002	1987021.	-.35	.758	3.	.316	88.16	SI
2175.	435.	3.	11.	-987653.	-.083	.185	-1058857.	-.35	2.109	3.	.142	1.072	SI
>2175.	0.	3.	11.	-906832.	-.076	.17	-1058857.	-.35	2.109	3.	.142	1.168	SI
2190.	15.	3.	11.	54725.	-.004	.005	1987021.	-.35	.758	3.	.316	36.31	SI
2206.	31.	3.	5.	-818735.	-.086	.155	-1051660.	-.35	1.781	3.	.164	1.284	SI
2413.	238.	3.	6.	706580.	-.085	.135	1039699.	-.35	1.395	3.	.201	1.471	SI
2610.	435.	3.	11.	-851574.	-.071	.159	-1058857.	-.35	2.109	3.	.142	1.243	SI
>2610.	0.	3.	11.	-820167.	-.069	.154	-1058857.	-.35	2.109	3.	.142	1.291	SI
2625.	15.	3.	11.	40706.	-.003	.004	1987021.	-.35	.758	3.	.316	48.81	SI
2641.	31.	3.	5.	-741835.	-.077	.14	-1051660.	-.35	1.781	3.	.164	1.418	SI
2848.	238.	3.	6.	615461.	-.073	.117	1039699.	-.35	1.395	3.	.201	1.689	SI
3045.	435.	3.	7.	-663393.	-.061	.124	-1056361.	-.35	1.987	3.	.15	1.592	SI
3045.	435.	3.	7.	7272.	-.001	.001	1539128.	-.35	1.268	3.	.216	211.7	SI
>3045.	0.	3.	7.	-472561.	-.043	.089	-1056361.	-.35	1.987	3.	.15	2.235	SI
3045.	0.	3.	7.	47004.	-.004	.006	1539128.	-.35	1.268	3.	.216	32.75	SI
3076.	31.	3.	8.	-431964.	-.05	.082	-1039699.	-.35	1.395	3.	.201	2.407	SI
3076.	31.	3.	8.	117609.	-.015	.043	547697.	-.35	2.388	3.	.128	4.657	SI
3201.	156.	3.	9.	-6093.	-.001	.002	-546809.	-.35	2.278	3.	.133	89.74	SI
3283.	238.	3.	9.	313393.	-.046	.116	546809.	-.35	2.278	3.	.133	1.745	SI
3480.	435.	3.	12.	-347821.	-.035	.065	-1051660.	-.35	1.781	3.	.164	3.024	SI
3480.	435.	3.	12.	64935.	-.006	.012	1051660.	-.35	1.781	3.	.164	16.2	SI
>3480.	0.	3.	12.	-382343.	-.038	.072	-1051660.	-.35	1.781	3.	.164	2.751	SI
3480.	0.	3.	12.	80880.	-.008	.015	1051660.	-.35	1.781	3.	.164	13.	SI
3511.	31.	3.	8.	-353937.	-.041	.067	-1039699.	-.35	1.395	3.	.201	2.938	SI
3511.	31.	3.	8.	139107.	-.018	.051	547697.	-.35	2.388	3.	.128	3.937	SI
3677.	197.	3.	9.	311849.	-.046	.115	546809.	-.35	2.278	3.	.133	1.753	SI
3759.	279.	3.	9.	-28819.	-.004	.011	-546809.	-.35	2.278	3.	.133	18.97	SI
3884.	404.	3.	8.	-408325.	-.047	.078	-1039699.	-.35	1.395	3.	.201	2.546	SI
3915.	435.	3.	12.	-436693.	-.044	.082	-1051660.	-.35	1.781	3.	.164	2.408	SI
3915.	435.	3.	12.	146796.	-.014	.028	1051660.	-.35	1.781	3.	.164	7.164	SI
>3915.	0.	3.	12.	-225806.	-.022	.042	-1051660.	-.35	1.781	3.	.164	4.657	SI
3915.	0.	3.	12.	23538.	-.002	.004	1051660.	-.35	1.781	3.	.164	44.68	SI
3946.	31.	3.	8.	-191139.	-.022	.036	-1039699.	-.35	1.395	3.	.201	5.439	SI
3946.	31.	3.	8.	8317.	-.001	.003	547697.	-.35	2.388	3.	.128	65.85	SI
4069.	154.	3.	9.	393004.	-.058	.145	546809.	-.35	2.278	3.	.133	1.391	SI
4222.	307.	3.	9.	-364956.	-.054	.135	-546809.	-.35	2.278	3.	.133	1.498	SI
4222.	307.	3.	9.	175996.	-.025	.065	546809.	-.35	2.278	3.	.133	3.107	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	9186.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-1162.	4455.	24411.	24577.	1.01	9.	1.75	SI
156.	156.	3.	-2951.	5099.	19541.	11285.	1.01	28.	2.5	SI
435.	435.	3.	-8742.	3948.	28335.	14044.	1.01	9.	1.	SI
> 435.	0.	3.	-2367.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	0.	3.	9953.	3948.	28335.	14044.	1.01	9.	1.	SI
488.	53.	3.	-3094.	5099.	28335.	14044.	1.01	9.	1.	SI
510.	75.	3.	-3515.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	435.	3.	-10116.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	435.	3.	1630.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	-294.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	0.	3.	10475.	3948.	28335.	14044.	1.01	9.	1.	SI
923.	53.	3.	-1122.	5613.	28335.	14044.	1.01	9.	1.	SI
945.	75.	3.	-1600.	4455.	24411.	24577.	1.01	9.	1.75	SI
1380.	510.	3.	-10740.	3948.	28335.	14044.	1.01	9.	1.	SI
1380.	510.	3.	29.	3948.	28335.	14044.	1.01	9.	1.	SI
>1380.	0.	3.	-3075.	3948.	28335.	14044.	1.01	9.	1.	SI
1380.	0.	3.	9801.	3948.	28335.	14044.	1.01	9.	1.	SI
1433.	53.	3.	-3792.	4455.	28335.	14044.	1.01	9.	1.	SI
1455.	75.	3.	-4205.	4455.	24411.	24577.	1.01	9.	1.75	SI
1740.	360.	3.	-9292.	3948.	28335.	14044.	1.01	9.	1.	SI
1740.	360.	3.	3018.	3948.	28335.	14044.	1.01	9.	1.	SI
>1740.	0.	3.	13705.	3948.	28335.	15799.	1.01	8.	1.	SI

1815.	75.	3.	-1218.	4455.	25469.	25279.	1.01	8.	1.6	SI
1896.	156.	3.	-4034.	5613.	19541.	13166.	1.01	24.	2.5	SI
2175.	435.	3.	-13402.	3948.	28335.	15799.	1.01	8.	1.	SI
>2175.	0.	3.	-149.	3948.	28335.	15799.	1.01	8.	1.	SI
2175.	0.	3.	13251.	3948.	28335.	15799.	1.01	8.	1.	SI
2250.	75.	3.	-2090.	4455.	25469.	25279.	1.01	8.	1.6	SI
2331.	156.	3.	-4724.	5613.	19541.	13166.	1.01	24.	2.5	SI
2610.	435.	3.	-13251.	3948.	28335.	15799.	1.01	8.	1.	SI
2610.	435.	3.	149.	3948.	28335.	15799.	1.01	8.	1.	SI
>2610.	0.	3.	-582.	3948.	28335.	15799.	1.01	8.	1.	SI
2610.	0.	3.	12372.	3948.	28335.	15799.	1.01	8.	1.	SI
2685.	75.	3.	-2390.	4455.	25469.	25279.	1.01	8.	1.6	SI
2766.	156.	3.	-4842.	5613.	19541.	12639.	1.01	25.	2.5	SI
3045.	435.	3.	-12781.	3948.	28335.	15799.	1.01	8.	1.	SI
>3045.	0.	3.	-2314.	3948.	28335.	14044.	1.01	9.	1.	SI
3045.	0.	3.	8084.	3948.	28335.	14044.	1.01	9.	1.	SI
3098.	53.	3.	-2877.	4455.	28335.	14044.	1.01	9.	1.	SI
3120.	75.	3.	-3202.	4455.	24411.	24577.	1.01	9.	1.75	SI
3480.	435.	3.	-8308.	3948.	28335.	14044.	1.01	9.	1.	SI
3480.	435.	3.	1646.	3948.	28335.	14044.	1.01	9.	1.	SI
>3480.	0.	3.	-1863.	3948.	28335.	14044.	1.01	9.	1.	SI
3480.	0.	3.	8274.	3948.	28335.	14044.	1.01	9.	1.	SI
3533.	53.	3.	-2426.	4455.	28335.	14044.	1.01	9.	1.	SI
3555.	75.	3.	-2751.	4455.	24411.	24577.	1.01	9.	1.75	SI
3915.	435.	3.	-7857.	3948.	28335.	14044.	1.01	9.	1.	SI
3915.	435.	3.	1836.	3948.	28335.	14044.	1.01	9.	1.	SI
>3915.	0.	3.	-3312.	3948.	28335.	14044.	1.01	9.	1.	SI
3915.	0.	3.	7113.	3948.	28335.	14044.	1.01	9.	1.	SI
3968.	53.	3.	-3437.	4455.	28335.	14044.	1.01	9.	1.	SI
3990.	75.	3.	-3509.	4455.	24411.	24577.	1.01	9.	1.75	SI
4222.	307.	3.	-6497.	3948.	28335.	14044.	1.01	9.	1.	SI
4222.	307.	3.	3829.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-364121.	-62.8	2796.4	4.02	10.33	.0969	32.87	.318	SI
15.	15.	3.	1.	-321443.	-55.4	2468.6	4.02	10.33	.0813	32.87	.267	SI
31.	31.	3.	1.	-230026.	-39.7	1766.6	4.02	10.33	.0505	32.87	.166	SI
197.	197.	3.	1.	403994.	-63.1	2099.6	6.03	9.64	.0763	24.94	.19	SI
435.	435.	3.	3.	-423406.	-49.5	1656.6	8.04	9.65	.0604	21.69	.131	SI
> 435.	0.	3.	3.	-275621.	-32.2	1078.4	8.04	9.65	.0328	21.69	.071	SI
632.	197.	3.	1.	270934.	-42.3	1408.1	6.03	9.64	.0434	24.94	.108	SI
870.	435.	3.	4.	-388766.	-43.7	1519.5	8.04	9.75	.0537	21.79	.117	SI
> 870.	0.	3.	4.	-609589.	-68.5	2382.6	8.04	9.75	.0948	21.79	.206	SI
1125.	255.	3.	6.	491021.	-69.5	1937.3	8.04	9.17	.0745	21.2	.158	SI
1380.	510.	3.	7.	-676673.	-79.2	2647.5	8.04	9.65	.1075	21.69	.233	SI
>1380.	0.	3.	7.	-188351.	-22.	736.9	8.04	9.65	.0211	21.69	.046	SI
1539.	159.	3.	9.	179169.	-32.5	1376.2	4.02	10.22	.0393	32.64	.128	SI
1740.	360.	3.	10	-265196.	-31.	1037.6	8.04	9.65	.0309	21.69	.067	SI
>1740.	0.	3.	10	-632333.	-74.	2474.1	8.04	9.65	.0993	21.69	.215	SI
1937.	197.	3.	6.	568642.	-80.5	2243.5	8.04	9.17	.0891	21.2	.189	SI
2175.	435.	3.	11	-692562.	-75.	2704.9	8.04	9.84	.11	21.88	.241	SI
>2175.	0.	3.	11	-635733.	-68.8	2482.9	8.04	9.84	.0994	21.88	.218	SI
2413.	238.	3.	6.	495713.	-70.1	1955.8	8.04	9.17	.0754	21.2	.16	SI
2610.	435.	3.	11	-597510.	-64.7	2333.6	8.04	9.84	.0923	21.88	.202	SI
>2610.	0.	3.	11	-574896.	-62.2	2245.3	8.04	9.84	.0881	21.88	.193	SI
2848.	238.	3.	6.	431517.	-61.1	1702.5	8.04	9.17	.0633	21.2	.134	SI
3045.	435.	3.	7.	-465102.	-54.4	1819.8	8.04	9.65	.0681	21.69	.148	SI
>3045.	0.	3.	7.	-332946.	-38.9	1302.7	8.04	9.65	.0435	21.69	.094	SI
3283.	238.	3.	9.	221777.	-40.2	1703.4	4.02	10.22	.0487	32.64	.159	SI
3480.	435.	3.	12	-242414.	-31.	951.4	8.04	9.43	.0272	21.47	.058	SI
>3480.	0.	3.	12	-255433.	-32.6	1002.5	8.04	9.43	.0296	21.47	.063	SI
3677.	197.	3.	9.	220293.	-39.9	1692.	4.02	10.22	.0483	32.64	.158	SI
3915.	435.	3.	12	-269828.	-34.5	1059.	8.04	9.43	.0323	21.47	.069	SI
>3915.	0.	3.	12	-132874.	-17.	521.5	8.04	9.43	.0149	21.47	.032	SI
4069.	154.	3.	9.	163267.	-29.6	1254.	4.02	10.22	.0358	32.64	.117	SI
4222.	307.	3.	9.	-136019.	-24.7	1044.7	4.02	10.22	.0298	32.64	.097	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-296691.	-51.2	2278.5	4.02	10.33	.0722	32.87	.237	SI
15.	15.	3.	1.	-261360.	-45.1	2007.2	4.02	10.33	.0593	32.87	.195	SI
31.	31.	3.	1.	-185682.	-32.	1426.	4.02	10.33	.0407	32.87	.134	SI
197.	197.	3.	1.	336996.	-52.6	1751.4	6.03	9.64	.0597	24.94	.149	SI
435.	435.	3.	3.	-358682.	-42.	1403.4	8.04	9.65	.0483	21.69	.105	SI
> 435.	0.	3.	3.	-227786.	-26.6	891.2	8.04	9.65	.0255	21.69	.055	SI
632.	197.	3.	1.	224173.	-35.	1165.	6.03	9.64	.0333	24.94	.083	SI
870.	435.	3.	4.	-323382.	-36.3	1264.	8.04	9.75	.0415	21.79	.09	SI
> 870.	0.	3.	4.	-506893.	-57.	1981.2	8.04	9.75	.0757	21.79	.165	SI
1125.	255.	3.	6.	412314.	-58.3	1626.8	8.04	9.17	.0597	21.2	.127	SI
1380.	510.	3.	7.	-561226.	-65.7	2195.8	8.04	9.65	.086	21.69	.187	SI
>1380.	0.	3.	7.	-154200.	-18.	603.3	8.04	9.65	.0172	21.69	.037	SI
1539.	159.	3.	9.	148657.	-26.9	1141.8	4.02	10.22	.0326	32.64	.106	SI
1740.	360.	3.	10	-218617.	-25.6	855.4	8.04	9.65	.0244	21.69	.053	SI

>1740.	0.	3.	10	-522729.	-61.1	2045.2	8.04	9.65	.0789	21.69	.171	SI
1937.	197.	3.	6.	469058.	-66.4	1850.6	8.04	9.17	.0704	21.2	.149	SI
2175.	435.	3.	11	-571387.	-61.9	2231.6	8.04	9.84	.0874	21.88	.191	SI
>2175.	0.	3.	11	-524357.	-56.8	2047.9	8.04	9.84	.0787	21.88	.172	SI
2413.	238.	3.	6.	409333.	-57.9	1615.	8.04	9.17	.0591	21.2	.125	SI
2610.	435.	3.	11	-492974.	-53.4	1925.4	8.04	9.84	.0728	21.88	.159	SI
>2610.	0.	3.	11	-473813.	-51.3	1850.5	8.04	9.84	.0693	21.88	.152	SI
2848.	238.	3.	6.	355899.	-50.4	1404.2	8.04	9.17	.0491	21.2	.104	SI
3045.	435.	3.	7.	-385262.	-45.1	1507.4	8.04	9.65	.0532	21.69	.115	SI
>3045.	0.	3.	7.	-278175.	-32.5	1088.4	8.04	9.65	.0333	21.69	.072	SI
3283.	238.	3.	9.	186689.	-33.8	1433.9	4.02	10.22	.041	32.64	.134	SI
3480.	435.	3.	12	-205848.	-26.3	807.9	8.04	9.43	.0231	21.47	.05	SI
>3480.	0.	3.	12	-220501.	-28.2	865.4	8.04	9.43	.0247	21.47	.053	SI
3677.	197.	3.	9.	186861.	-33.9	1435.2	4.02	10.22	.041	32.64	.134	SI
3915.	435.	3.	12	-221815.	-28.3	870.6	8.04	9.43	.0249	21.47	.053	SI
>3915.	0.	3.	12	-113084.	-14.5	443.8	8.04	9.43	.0127	21.47	.027	SI
4069.	154.	3.	9.	140096.	-25.4	1076.1	4.02	10.22	.0307	32.64	.1	SI
4222.	307.	3.	9.	-110406.	-20.	848.	4.02	10.22	.0242	32.64	.079	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-271573.	-46.8	2085.6	4.02	10.33	.063	32.87	.207	SI
15.	15.	3.	1.	-239129.	-41.2	1836.5	4.02	10.33	.0525	32.87	.172	SI
31.	31.	3.	1.	-169636.	-29.3	1302.8	4.02	10.33	.0372	32.87	.122	SI
197.	197.	3.	1.	309854.	-48.4	1610.3	6.03	9.64	.053	24.94	.132	SI
435.	435.	3.	3.	-331931.	-38.8	1298.7	8.04	9.65	.0433	21.69	.094	SI
> 435.	0.	3.	3.	-207842.	-24.3	813.2	8.04	9.65	.0232	21.69	.05	SI
632.	197.	3.	1.	206162.	-32.2	1071.4	6.03	9.64	.0306	24.94	.076	SI
870.	435.	3.	4.	-297657.	-33.5	1163.4	8.04	9.75	.0367	21.79	.08	SI
> 870.	0.	3.	4.	-466474.	-52.4	1823.3	8.04	9.75	.0681	21.79	.148	SI
1125.	255.	3.	6.	378127.	-53.5	1491.9	8.04	9.17	.0533	21.2	.113	SI
1380.	510.	3.	7.	-516443.	-60.4	2020.6	8.04	9.65	.0777	21.69	.169	SI
>1380.	0.	3.	7.	-140650.	-16.5	550.3	8.04	9.65	.0157	21.69	.034	SI
1539.	159.	3.	9.	137168.	-24.9	1053.6	4.02	10.22	.0301	32.64	.098	SI
1740.	360.	3.	10	-199122.	-23.3	779.1	8.04	9.65	.0223	21.69	.048	SI
>1740.	0.	3.	10	-479583.	-56.1	1876.4	8.04	9.65	.0708	21.69	.154	SI
1937.	197.	3.	6.	429077.	-60.7	1692.9	8.04	9.17	.0629	21.2	.133	SI
2175.	435.	3.	11	-522669.	-56.6	2041.3	8.04	9.84	.0784	21.88	.171	SI
>2175.	0.	3.	11	-479365.	-51.9	1872.2	8.04	9.84	.0703	21.88	.154	SI
2413.	238.	3.	6.	374858.	-53.	1479.	8.04	9.17	.0527	21.2	.112	SI
2610.	435.	3.	11	-451461.	-48.9	1763.2	8.04	9.84	.0651	21.88	.143	SI
>2610.	0.	3.	11	-433298.	-46.9	1692.3	8.04	9.84	.0617	21.88	.135	SI
2848.	238.	3.	6.	325520.	-46.1	1284.3	8.04	9.17	.0434	21.2	.092	SI
3045.	435.	3.	7.	-353782.	-41.4	1384.2	8.04	9.65	.0474	21.69	.103	SI
>3045.	0.	3.	7.	-256067.	-30.	1001.9	8.04	9.65	.0292	21.69	.063	SI
3283.	238.	3.	9.	172788.	-31.3	1327.2	4.02	10.22	.0379	32.64	.124	SI
3480.	435.	3.	12	-191088.	-24.4	750.	8.04	9.43	.0214	21.47	.046	SI
>3480.	0.	3.	12	-206310.	-26.4	809.7	8.04	9.43	.0231	21.47	.05	SI
3718.	238.	3.	9.	172566.	-31.3	1325.4	4.02	10.22	.0379	32.64	.124	SI
3915.	435.	3.	12	-203230.	-26.	797.6	8.04	9.43	.0228	21.47	.049	SI
>3915.	0.	3.	12	-104939.	-13.4	411.9	8.04	9.43	.0118	21.47	.025	SI
4069.	154.	3.	9.	130322.	-23.6	1001.	4.02	10.22	.0286	32.64	.093	SI
4222.	307.	3.	9.	-102018.	-18.5	783.6	4.02	10.22	.0224	32.64	.073	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16
4	22.12	1.843	8.04	.67	2d16 +2d16	14.07	1.173	3d16 +4d16
5	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
6	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16
7	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	4d16 +2d16
8	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
9	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
10	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	2d16 +4d16
11	24.13	2.011	8.04	.67	2d16 +2d16	16.08	1.34	4d16 +4d16
12	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 73 - Travata T2e003 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8

ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogenein.= 15

FESSURE:  $w_{max}(fre.)=.4$  ;  $w_{max}(q.p.)=.3$  [4.1.2.2.4.5];  
 $kt=.4$  [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.;  $AcIs=1200.$  .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A681	3	3	3	0	415.	365.	10.375	1.3	1.459	28.77
2	A682	3	3	3	0	455.	405.	11.375	1.5	1.704	41.795
3	A685	3	3	3	0	515.	375.	12.875	1.5	1.776	41.723
4	A686	3	3	3	0	355.	330.	8.875	1.5	2.457	60.258
5	A688	3	3	3	0	440.	385.	11.	1.5	1.555	36.521
6	A691	3	3	3	0	410.	365.	10.25	1.5	1.899	44.626
7	A692	3	3	3	0	445.	405.	11.125	1.5	1.709	41.91
8	A693	3	3	3	0	435.	405.	10.875	1.5	3.937	102.643
9	A694	3	3	3	0	435.	405.	10.875	1.3	3.012	68.067

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAX PRINC16	16.
7.	SLU con SISMAX PRINC16	16.

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-671529.	-.077	.167	-801560.	-.35	2.074	3.	.144	1.194	SI
0.	0.	3.	1.	153201.	-.016	.029	1047321.	-.35	1.62	3.	.178	6.836	SI
126.	126.	3.	1.	-37195.	-.004	.009	-801560.	-.35	2.074	3.	.144	21.55	SI
208.	208.	3.	1.	717943.	-.08	.136	1047321.	-.35	1.62	3.	.178	1.459	SI
390.	390.	3.	3.	247140.	-.02	.027	1789215.	-.35	1.231	3.	.221	7.24	SI
415.	415.	3.	3.	-707888.	-.057	.107	-1309221.	-.35	1.865	3.	.158	1.849	SI
415.	415.	3.	3.	127740.	-.01	.014	1789215.	-.35	1.231	3.	.221	14.01	SI
> 415.	0.	3.	3.	-564711.	-.045	.085	-1309221.	-.35	1.865	3.	.158	2.318	SI
415.	0.	3.	3.	134369.	-.011	.015	1789215.	-.35	1.231	3.	.221	13.32	SI
478.	63.	3.	4.	292892.	-.03	.073	802696.	-.35	2.151	3.	.14	2.741	SI
622.	207.	3.	5.	467567.	-.06	.117	796796.	-.35	1.795	3.	.163	1.704	SI
845.	430.	3.	7.	203520.	-.017	.022	1775074.	-.35	1.052	3.	.25	8.722	SI
870.	455.	3.	7.	-590346.	-.051	.111	-1057775.	-.35	2.055	3.	.146	1.792	SI
870.	455.	3.	7.	129150.	-.011	.014	1775074.	-.35	1.052	3.	.25	13.74	SI
> 870.	0.	3.	7.	-828718.	-.073	.155	-1057775.	-.35	2.055	3.	.146	1.276	SI
1001.	131.	3.	9.	-145546.	-.018	.054	-547697.	-.35	2.388	3.	.128	3.763	SI
1094.	224.	3.	9.	585440.	-.069	.112	1039699.	-.35	1.395	3.	.201	1.776	SI
1279.	409.	3.	10	86284.	-.007	.009	1775074.	-.35	1.052	3.	.25	20.57	SI
1369.	499.	3.	10	7768.	-.001	.001	1775074.	-.35	1.052	3.	.25	228.5	SI
1385.	515.	3.	10	-570626.	-.049	.107	-1057775.	-.35	2.055	3.	.146	1.854	SI
>1385.	0.	3.	10	-497309.	-.043	.093	-1057775.	-.35	2.055	3.	.146	2.127	SI
1385.	0.	3.	10	265148.	-.022	.029	1775074.	-.35	1.052	3.	.25	6.695	SI
1487.	102.	3.	5.	-100773.	-.013	.037	-547369.	-.35	2.346	3.	.13	5.432	SI
1571.	186.	3.	5.	324304.	-.041	.081	796796.	-.35	1.795	3.	.163	2.457	SI
1699.	314.	3.	6.	-509072.	-.055	.096	-1047321.	-.35	1.62	3.	.178	2.057	SI
1740.	355.	3.	7.	-584463.	-.051	.109	-1057775.	-.35	2.055	3.	.146	1.81	SI
1740.	355.	3.	7.	203182.	-.017	.022	1775074.	-.35	1.052	3.	.25	8.736	SI
>1740.	0.	3.	7.	-894255.	-.079	.168	-1057775.	-.35	2.055	3.	.146	1.183	SI
1867.	127.	3.	9.	-199380.	-.025	.073	-547697.	-.35	2.388	3.	.128	2.747	SI
1994.	254.	3.	9.	668821.	-.08	.128	1039699.	-.35	1.395	3.	.201	1.555	SI
2142.	402.	3.	11	169885.	-.014	.016	1987021.	-.35	.758	3.	.316	11.7	SI
2180.	440.	3.	11	-576164.	-.048	.108	-1058857.	-.35	2.109	3.	.142	1.838	SI
2180.	440.	3.	11	553.	0.	0.	1987021.	-.35	.758	3.	.316	3596	SI
>2180.	0.	3.	11	-491902.	-.04	.092	-1058857.	-.35	2.109	3.	.142	2.153	SI
2180.	0.	3.	11	1109.	0.	0.	1987021.	-.35	.758	3.	.316	1792	SI
2328.	148.	3.	9.	-84860.	-.011	.031	-547697.	-.35	2.388	3.	.128	6.454	SI
2328.	148.	3.	9.	547357.	-.065	.104	1039699.	-.35	1.395	3.	.201	1.899	SI
2590.	410.	3.	10	-814020.	-.071	.153	-1057775.	-.35	2.055	3.	.146	1.299	SI
>2590.	0.	3.	10	-639658.	-.056	.12	-1057775.	-.35	2.055	3.	.146	1.654	SI
2590.	0.	3.	10	73697.	-.006	.008	1775074.	-.35	1.052	3.	.25	24.09	SI
2631.	41.	3.	6.	-554251.	-.061	.105	-1047321.	-.35	1.62	3.	.178	1.89	SI
2631.	41.	3.	6.	203326.	-.022	.05	801560.	-.35	2.074	3.	.144	3.942	SI
2838.	248.	3.	5.	466277.	-.06	.117	796796.	-.35	1.795	3.	.163	1.709	SI

3035.	445.	3.	12	-478549.	-.046	.09	-1054435.	-.35	1.899	3.	.156	2.203	SI
3035.	445.	3.	12	84408.	-.008	.013	1297700.	-.35	1.512	3.	.188	15.37	SI
>3035.	0.	3.	12	-314913.	-.03	.059	-1054435.	-.35	1.899	3.	.156	3.348	SI
3035.	0.	3.	12	64356.	-.006	.01	1297700.	-.35	1.512	3.	.188	20.16	SI
3066.	31.	3.	13	-296475.	-.034	.056	-1039699.	-.35	1.395	3.	.201	3.507	SI
3066.	31.	3.	13	94058.	-.012	.035	547697.	-.35	2.388	3.	.128	5.823	SI
3314.	279.	3.	14	-15450.	-.002	.006	-546809.	-.35	2.278	3.	.133	35.39	SI
3354.	319.	3.	13	139126.	-.018	.051	547697.	-.35	2.388	3.	.128	3.937	SI
3470.	435.	3.	15	-250636.	-.025	.047	-1051660.	-.35	1.781	3.	.164	4.196	SI
3470.	435.	3.	15	90056.	-.009	.017	1051660.	-.35	1.781	3.	.164	11.68	SI
>3470.	0.	3.	15	-314372.	-.031	.059	-1051660.	-.35	1.781	3.	.164	3.345	SI
3470.	0.	3.	15	98036.	-.01	.018	1051660.	-.35	1.781	3.	.164	10.73	SI
3501.	31.	3.	13	-293927.	-.034	.056	-1039699.	-.35	1.395	3.	.201	3.537	SI
3501.	31.	3.	13	112376.	-.014	.041	547697.	-.35	2.388	3.	.128	4.874	SI
3626.	156.	3.	14	-5927.	-.001	.002	-546809.	-.35	2.278	3.	.133	92.26	SI
3830.	360.	3.	14	181532.	-.026	.067	546809.	-.35	2.278	3.	.133	3.012	SI
3905.	435.	3.	14	-383496.	-.057	.142	-546809.	-.35	2.278	3.	.133	1.426	SI
3905.	435.	3.	14	163179.	-.023	.06	546809.	-.35	2.278	3.	.133	3.351	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1481.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	12116.	3948.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3226.	5099.	24411.	24577.	1.01	9.	1.75	SI
167.	167.	3.	-5601.	5613.	19541.	11285.	1.01	28.	2.5	SI
415.	415.	3.	-12095.	3948.	28335.	14044.	1.01	9.	1.	SI
415.	415.	3.	48.	3948.	28335.	14044.	1.01	9.	1.	SI
> 415.	0.	3.	-1643.	3948.	28335.	14044.	1.01	9.	1.	SI
415.	0.	3.	11462.	3948.	28335.	14044.	1.01	9.	1.	SI
456.	41.	3.	-2014.	5099.	28335.	14044.	1.01	9.	1.	SI
500.	85.	3.	-3029.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	455.	3.	-10999.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	455.	3.	951.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	-395.	5613.	28335.	14044.	1.01	9.	1.	SI
870.	0.	3.	10823.	5613.	28335.	14044.	1.01	9.	1.	SI
955.	85.	3.	-2049.	4455.	24411.	24577.	1.01	9.	1.75	SI
1232.	362.	3.	-9700.	4455.	28335.	14044.	1.01	9.	1.	SI
1385.	515.	3.	-7429.	5613.	28335.	14044.	1.01	9.	1.	SI
1385.	515.	3.	2944.	5613.	28335.	14044.	1.01	9.	1.	SI
>1385.	0.	3.	-2717.	5099.	28335.	14044.	1.01	9.	1.	SI
1385.	0.	3.	11767.	5099.	28335.	14044.	1.01	9.	1.	SI
1445.	60.	3.	-4195.	4455.	24411.	24577.	1.01	9.	1.75	SI
1740.	355.	3.	-11000.	3948.	28335.	14044.	1.01	9.	1.	SI
1740.	355.	3.	2843.	3948.	28335.	14044.	1.01	9.	1.	SI
>1740.	0.	3.	-1323.	5613.	28335.	14044.	1.01	9.	1.	SI
1740.	0.	3.	12526.	5613.	28335.	14044.	1.01	9.	1.	SI
1825.	85.	3.	-2990.	4455.	24411.	24577.	1.01	9.	1.75	SI
2142.	402.	3.	-12068.	5613.	28335.	14044.	1.01	9.	1.	SI
2180.	440.	3.	-7917.	3948.	28335.	14044.	1.01	9.	1.	SI
2180.	440.	3.	5932.	3948.	28335.	14044.	1.01	9.	1.	SI
>2180.	0.	3.	-5611.	3948.	28335.	14044.	1.01	9.	1.	SI
2180.	0.	3.	8371.	3948.	28335.	14044.	1.01	9.	1.	SI
2218.	38.	3.	11793.	5613.	28335.	14044.	1.01	9.	1.	SI
2505.	325.	3.	-10113.	4455.	24411.	24577.	1.01	9.	1.75	SI
2590.	410.	3.	-11770.	5613.	28335.	14044.	1.01	9.	1.	SI
2590.	410.	3.	2212.	5613.	28335.	14044.	1.01	9.	1.	SI
>2590.	0.	3.	-1188.	3948.	28335.	14044.	1.01	9.	1.	SI
2590.	0.	3.	10723.	3948.	28335.	14044.	1.01	9.	1.	SI
2631.	41.	3.	-1567.	5099.	28335.	14044.	1.01	9.	1.	SI
2675.	85.	3.	-2605.	4455.	24411.	24577.	1.01	9.	1.75	SI
3035.	445.	3.	-10754.	3948.	28335.	14044.	1.01	9.	1.	SI
3035.	445.	3.	213.	3948.	28335.	14044.	1.01	9.	1.	SI
>3035.	0.	3.	-3390.	3948.	28335.	14044.	1.01	9.	1.	SI
3035.	0.	3.	6984.	3948.	28335.	14044.	1.01	9.	1.	SI
3088.	53.	3.	-3709.	4455.	28335.	14044.	1.01	9.	1.	SI
3110.	75.	3.	-3894.	4455.	24411.	24577.	1.01	9.	1.75	SI
3470.	435.	3.	-6792.	3948.	28335.	14044.	1.01	9.	1.	SI
3470.	435.	3.	3330.	3948.	28335.	14044.	1.01	9.	1.	SI
>3470.	0.	3.	-1777.	3948.	28335.	14044.	1.01	9.	1.	SI
3470.	0.	3.	5677.	3948.	28335.	14044.	1.01	9.	1.	SI
3523.	53.	3.	-2096.	4455.	28335.	14044.	1.01	9.	1.	SI
3545.	75.	3.	-2281.	4455.	24411.	24577.	1.01	9.	1.75	SI
3905.	435.	3.	-5179.	3948.	28335.	14044.	1.01	9.	1.	SI
3905.	435.	3.	2023.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-454856.	-64.2	2356.9	6.03	9.88	.088	25.27	.222	SI
16.	16.	3.	1.	-417326.	-58.9	2162.5	6.03	9.88	.0788	25.27	.199	SI
41.	41.	3.	1.	-247166.	-34.9	1280.7	6.03	9.88	.0368	25.27	.093	SI
208.	208.	3.	1.	500730.	-67.2	1969.7	8.04	9.3	.0758	21.34	.162	SI
415.	415.	3.	3.	-484682.	-50.6	1525.5	10.05	9.38	.0576	19.52	.112	SI

> 415.	0.	3.	3.	-379142.	-39.5	1193.3	10.05	9.38	.0417	19.52	.081	SI
622.	207.	3.	5.	326373.	-51.	1696.2	6.03	9.64	.0571	24.94	.142	SI
870.	455.	3.	7.	-398312.	-44.8	1556.8	8.04	9.75	.0554	21.79	.121	SI
> 870.	0.	3.	7.	-577660.	-64.9	2257.8	8.04	9.75	.0888	21.79	.194	SI
1094.	224.	3.	9.	408664.	-57.8	1612.4	8.04	9.17	.059	21.2	.125	SI
1385.	515.	3.	10.	-398084.	-44.7	1555.9	8.04	9.75	.0554	21.79	.121	SI
>1385.	0.	3.	10.	-225707.	-25.4	882.2	8.04	9.75	.0252	21.79	.055	SI
1571.	186.	3.	5.	227404.	-35.5	1181.8	6.03	9.64	.0338	24.94	.084	SI
1740.	355.	3.	7.	-300349.	-33.8	1173.9	8.04	9.75	.0372	21.79	.081	SI
>1740.	0.	3.	7.	-624375.	-70.2	2440.4	8.04	9.75	.0975	21.79	.212	SI
1994.	254.	3.	9.	466967.	-66.1	1842.4	8.04	9.17	.07	21.2	.148	SI
2180.	440.	3.	11.	-402285.	-43.6	1571.2	8.04	9.84	.056	21.88	.122	SI
>2180.	0.	3.	11.	-343178.	-37.2	1340.3	8.04	9.84	.045	21.88	.098	SI
2328.	148.	3.	9.	381900.	-54.	1506.8	8.04	9.17	.054	21.2	.114	SI
2590.	410.	3.	10.	-567576.	-63.8	2218.4	8.04	9.75	.087	21.79	.189	SI
>2590.	0.	3.	10.	-436796.	-49.1	1707.3	8.04	9.75	.0626	21.79	.136	SI
2838.	248.	3.	5.	325218.	-50.8	1690.2	6.03	9.64	.0568	24.94	.142	SI
3035.	445.	3.	12.	-325098.	-39.7	1273.7	8.04	9.54	.0423	21.58	.091	SI
>3035.	0.	3.	12.	-179648.	-21.9	703.8	8.04	9.54	.0201	21.58	.043	SI
3273.	238.	3.	14.	97546.	-17.7	749.2	4.02	10.22	.0214	32.64	.07	SI
3470.	435.	3.	15.	-97580.	-12.5	383.	8.04	9.43	.0109	21.47	.023	SI
>3470.	0.	3.	15.	-105441.	-13.5	413.8	8.04	9.43	.0118	21.47	.025	SI
3667.	197.	3.	14.	110987.	-20.1	852.5	4.02	10.22	.0244	32.64	.08	SI
3905.	435.	3.	14.	-132568.	-24.	1018.2	4.02	10.22	.0291	32.64	.095	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-389167.	-55.	2016.6	6.03	9.88	.0718	25.27	.181	SI
16.	16.	3.	1.	-356910.	-50.4	1849.4	6.03	9.88	.0639	25.27	.161	SI
41.	41.	3.	1.	-210653.	-29.8	1091.5	6.03	9.88	.0312	25.27	.079	SI
208.	208.	3.	1.	431262.	-57.9	1696.5	8.04	9.3	.0628	21.34	.134	SI
415.	415.	3.	3.	-418330.	-43.6	1316.7	10.05	9.38	.0476	19.52	.093	SI
> 415.	0.	3.	3.	-324476.	-33.8	1021.3	10.05	9.38	.0336	19.52	.065	SI
622.	207.	3.	5.	281107.	-43.9	1460.9	6.03	9.64	.0459	24.94	.114	SI
870.	455.	3.	7.	-342977.	-38.6	1340.6	8.04	9.75	.0451	21.79	.098	SI
> 870.	0.	3.	7.	-496442.	-55.8	1940.4	8.04	9.75	.0737	21.79	.161	SI
1094.	224.	3.	9.	352186.	-49.8	1389.5	8.04	9.17	.0484	21.2	.103	SI
1385.	515.	3.	10.	-342626.	-38.5	1339.2	8.04	9.75	.0451	21.79	.098	SI
>1385.	0.	3.	10.	-194111.	-21.8	758.7	8.04	9.75	.0217	21.79	.047	SI
1571.	186.	3.	5.	194989.	-30.4	1013.4	6.03	9.64	.029	24.94	.072	SI
1740.	355.	3.	7.	-260845.	-29.3	1019.5	8.04	9.75	.0299	21.79	.065	SI
>1740.	0.	3.	7.	-537805.	-60.4	2102.1	8.04	9.75	.0814	21.79	.177	SI
1994.	254.	3.	9.	400667.	-56.7	1580.8	8.04	9.17	.0575	21.2	.122	SI
2180.	440.	3.	11.	-346113.	-37.5	1351.8	8.04	9.84	.0455	21.88	.1	SI
>2180.	0.	3.	11.	-295596.	-32.	1154.5	8.04	9.84	.0361	21.88	.079	SI
2328.	148.	3.	9.	328701.	-46.5	1296.9	8.04	9.17	.044	21.2	.093	SI
2590.	410.	3.	10.	-486533.	-54.7	1901.7	8.04	9.75	.0719	21.79	.157	SI
>2590.	0.	3.	10.	-373067.	-41.9	1458.2	8.04	9.75	.0507	21.79	.111	SI
2838.	248.	3.	5.	282367.	-44.1	1467.5	6.03	9.64	.0462	24.94	.115	SI
3035.	445.	3.	12.	-281400.	-34.4	1102.5	8.04	9.54	.0341	21.58	.074	SI
>3035.	0.	3.	12.	-166973.	-20.4	654.2	8.04	9.54	.0187	21.58	.04	SI
3273.	238.	3.	14.	97412.	-17.7	748.2	4.02	10.22	.0214	32.64	.07	SI
3470.	435.	3.	15.	-100703.	-12.9	395.2	8.04	9.43	.0113	21.47	.024	SI
>3470.	0.	3.	15.	-108281.	-13.8	425.	8.04	9.43	.0121	21.47	.026	SI
3667.	197.	3.	14.	110834.	-20.1	851.3	4.02	10.22	.0243	32.64	.079	SI
3905.	435.	3.	14.	-117042.	-21.2	899.	4.02	10.22	.0257	32.64	.084	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-364273.	-51.5	1887.6	6.03	9.88	.0657	25.27	.166	SI
16.	16.	3.	1.	-334098.	-47.2	1731.2	6.03	9.88	.0582	25.27	.147	SI
41.	41.	3.	1.	-197280.	-27.9	1022.3	6.03	9.88	.0292	25.27	.074	SI
208.	208.	3.	1.	403244.	-54.1	1586.3	8.04	9.3	.0576	21.34	.123	SI
415.	415.	3.	3.	-391477.	-40.8	1232.1	10.05	9.38	.0436	19.52	.085	SI
> 415.	0.	3.	3.	-302774.	-31.6	953.	10.05	9.38	.0303	19.52	.059	SI
622.	207.	3.	5.	263196.	-41.1	1367.8	6.03	9.64	.0415	24.94	.103	SI
870.	455.	3.	7.	-320547.	-36.	1252.9	8.04	9.75	.041	21.79	.089	SI
> 870.	0.	3.	7.	-464221.	-52.2	1814.5	8.04	9.75	.0677	21.79	.148	SI
1094.	224.	3.	9.	329556.	-46.6	1300.2	8.04	9.17	.0442	21.2	.094	SI
1385.	515.	3.	10.	-320468.	-36.	1252.6	8.04	9.75	.041	21.79	.089	SI
>1385.	0.	3.	10.	-181930.	-20.4	711.1	8.04	9.75	.0203	21.79	.044	SI
1571.	186.	3.	5.	182976.	-28.6	950.9	6.03	9.64	.0272	24.94	.068	SI
1740.	355.	3.	7.	-245457.	-27.6	959.4	8.04	9.75	.0274	21.79	.06	SI
>1740.	0.	3.	7.	-504287.	-56.7	1971.1	8.04	9.75	.0752	21.79	.164	SI
1994.	254.	3.	9.	375115.	-53.1	1480.	8.04	9.17	.0527	21.2	.112	SI
2180.	440.	3.	11.	-324303.	-35.1	1266.6	8.04	9.84	.0415	21.88	.091	SI
>2180.	0.	3.	11.	-276558.	-29.9	1080.1	8.04	9.84	.0326	21.88	.071	SI
2328.	148.	3.	9.	307465.	-43.5	1213.1	8.04	9.17	.04	21.2	.085	SI
2590.	410.	3.	10.	-454517.	-51.1	1776.5	8.04	9.75	.0659	21.79	.144	SI
>2590.	0.	3.	10.	-347834.	-39.1	1359.5	8.04	9.75	.0461	21.79	.1	SI
2838.	248.	3.	5.	263451.	-41.1	1369.2	6.03	9.64	.0415	24.94	.104	SI
3035.	445.	3.	12.	-264773.	-32.3	1037.3	8.04	9.54	.031	21.58	.067	SI
>3035.	0.	3.	12.	-161835.	-19.8	634.	8.04	9.54	.0181	21.58	.039	SI
3273.	238.	3.	14.	98075.	-17.8	753.3	4.02	10.22	.0215	32.64	.07	SI
3470.	435.	3.	15.	-102206.	-13.1	401.1	8.04	9.43	.0115	21.47	.025	SI
>3470.	0.	3.	15.	-110145.	-14.1	432.3	8.04	9.43	.0124	21.47	.027	SI



3667. |197. |3. |14 | 111592. ! -20.2 | 857.1 | 4.02 |10.22 | .0245 | 32.64 | .08 |SI |  
 3905. |435. |3. |14 | -112176. ! -20.3 | 861.6 | 4.02 |10.22 | .0246 | 32.64 | .08 |SI |

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	14.07	1.173	6.03	.503	3d16	8.04	.67	4d16
2	18.1	1.508	10.05	.838	3d16 +2d16	8.04	.67	4d16
3	24.13	2.011	10.05	.838	3d16 +2d16	14.07	1.173	4d16 +3d16
4	16.08	1.34	10.05	.838	3d16 +2d16	6.03	.503	3d16
5	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
6	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
7	22.12	1.843	8.04	.67	2d16 +2d16	14.07	1.173	3d16 +4d16
8	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
9	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16
10	22.12	1.843	8.04	.67	2d16 +2d16	14.07	1.173	4d16 +3d16
11	24.13	2.011	8.04	.67	2d16 +2d16	16.08	1.34	4d16 +4d16
12	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	3d16 +2d16
13	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
14	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
15	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 74 - Travata T2e004 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinale= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A699	3	3	3	0	427.	397.	10.675	1.3	2.567	58.01
2	A698	3	3	3	0	443.	413.	11.075	1.3	2.097	47.384

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-224417.	-.032	.083	-546809.	-.35	2.278	3.	.133	2.437	SI
0.	0.	3.	119492.	-.017	.044	546809.	-.35	2.278	3.	.133	4.576	SI
194.	194.	3.	213002.	-.031	.079	546809.	-.35	2.278	3.	.133	2.567	SI
312.	312.	3.	-61675.	-.007	.012	-1039699.	-.35	1.395	3.	.201	16.86	SI
312.	312.	3.	154694.	-.02	.057	547697.	-.35	2.388	3.	.128	3.541	SI
411.	411.	3.	57937.	-.006	.011	1051660.	-.35	1.781	3.	.164	18.15	SI
427.	427.	3.	-289280.	-.029	.054	-1051660.	-.35	1.781	3.	.164	3.635	SI
427.	427.	3.	34928.	-.003	.007	1051660.	-.35	1.781	3.	.164	30.11	SI
> 427.	0.	3.	-314511.	-.031	.059	-1051660.	-.35	1.781	3.	.164	3.344	SI
427.	0.	3.	25193.	-.002	.005	1051660.	-.35	1.781	3.	.164	41.74	SI
458.	31.	3.	-290925.	-.033	.055	-1039699.	-.35	1.395	3.	.201	3.574	SI

458.	31.	3.	2.	80906.	-.01	.03	547697.	-.35	2.388	3.	.128	6.77	SI
669.	242.	3.	1.	260767.	-.038	.096	546809.	-.35	2.278	3.	.133	2.097	SI
870.	443.	3.	1.	-252916.	-.037	.093	-546809.	-.35	2.278	3.	.133	2.162	SI
870.	443.	3.	1.	106603.	-.015	.039	546809.	-.35	2.278	3.	.133	5.129	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1866.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	5699.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2487.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2487.	4455.	24411.	24577.	1.01	9.	1.75	SI
427.	427.	3.	-5975.	3948.	28335.	14044.	1.01	9.	1.	SI
427.	427.	3.	1280.	3948.	28335.	14044.	1.01	9.	1.	SI
> 427.	0.	3.	-1351.	3948.	28335.	14044.	1.01	9.	1.	SI
427.	0.	3.	6220.	3948.	28335.	14044.	1.01	9.	1.	SI
480.	53.	3.	-1772.	4455.	28335.	14044.	1.01	9.	1.	SI
502.	75.	3.	-2014.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	443.	3.	-5915.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	443.	3.	1324.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-103416.	-18.7	794.3	4.02	10.22	.0227	32.64	.074	SI
31.	31.	3.	1.	-69919.	-12.7	537.	4.02	10.22	.0153	32.64	.05	SI
194.	194.	3.	1.	154750.	-28.1	1188.6	4.02	10.22	.034	32.64	.111	SI
427.	427.	3.	3.	-199070.	-25.4	781.3	8.04	9.43	.0223	21.47	.048	SI
> 427.	0.	3.	3.	-225013.	-28.8	883.1	8.04	9.43	.0252	21.47	.054	SI
669.	242.	3.	1.	189522.	-34.4	1455.7	4.02	10.22	.0416	32.64	.136	SI
870.	443.	3.	1.	-165198.	-29.9	1268.9	4.02	10.22	.0363	32.64	.118	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-90144.	-16.3	692.4	4.02	10.22	.0198	32.64	.065	SI
31.	31.	3.	1.	-61211.	-11.1	470.1	4.02	10.22	.0134	32.64	.044	SI
194.	194.	3.	1.	134845.	-24.4	1035.7	4.02	10.22	.0296	32.64	.097	SI
427.	427.	3.	3.	-173254.	-22.1	680.	8.04	9.43	.0194	21.47	.042	SI
> 427.	0.	3.	3.	-195453.	-25.	767.1	8.04	9.43	.0219	21.47	.047	SI
669.	242.	3.	1.	163998.	-29.7	1259.6	4.02	10.22	.036	32.64	.117	SI
870.	443.	3.	1.	-143696.	-26.	1103.7	4.02	10.22	.0315	32.64	.103	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-88735.	-16.1	681.6	4.02	10.22	.0195	32.64	.064	SI
31.	31.	3.	1.	-60378.	-10.9	463.8	4.02	10.22	.0133	32.64	.043	SI
194.	194.	3.	1.	132416.	-24.	1017.1	4.02	10.22	.0291	32.64	.095	SI
427.	427.	3.	3.	-171350.	-21.9	672.5	8.04	9.43	.0192	21.47	.041	SI
> 427.	0.	3.	3.	-192933.	-24.7	757.2	8.04	9.43	.0216	21.47	.046	SI
669.	242.	3.	1.	161167.	-29.2	1237.9	4.02	10.22	.0354	32.64	.115	SI
870.	443.	3.	1.	-141306.	-25.6	1085.3	4.02	10.22	.031	32.64	.101	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 159 - Travata T2e005 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];

kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AcIs=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A704	3	3	3	0	427.	377.	10.675	1.3	2.174	49.12
2	A703	3	3	3	0	423.	373.	10.575	1.3	1.767	39.94

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-350527.	-.051	.13	-546809.	-.35	2.278	3.	.133	1.56	SI
0.	0.	3.	171730.	-.025	.063	546809.	-.35	2.278	3.	.133	3.184	SI
213.	213.	3.	251550.	-.036	.093	546809.	-.35	2.278	3.	.133	2.174	SI
299.	299.	3.	-68112.	-.01	.025	-546809.	-.35	2.278	3.	.133	8.028	SI
342.	342.	3.	-176068.	-.02	.033	-1039699.	-.35	1.395	3.	.201	5.905	SI
342.	342.	3.	207648.	-.026	.076	547697.	-.35	2.388	3.	.128	2.638	SI
402.	402.	3.	165887.	-.016	.031	1051660.	-.35	1.781	3.	.164	6.34	SI
427.	427.	3.	-356072.	-.036	.067	-1051660.	-.35	1.781	3.	.164	2.954	SI
427.	427.	3.	133894.	-.013	.025	1051660.	-.35	1.781	3.	.164	7.854	SI
> 427.	0.	3.	-389761.	-.039	.073	-1051660.	-.35	1.781	3.	.164	2.698	SI
427.	0.	3.	97739.	-.01	.018	1051660.	-.35	1.781	3.	.164	10.76	SI
468.	41.	3.	-340446.	-.039	.065	-1039699.	-.35	1.395	3.	.201	3.054	SI
468.	41.	3.	171360.	-.022	.063	547697.	-.35	2.388	3.	.128	3.196	SI
638.	212.	3.	309372.	-.045	.114	546809.	-.35	2.278	3.	.133	1.767	SI
723.	296.	3.	-47724.	-.007	.018	-546809.	-.35	2.278	3.	.133	11.46	SI
850.	423.	3.	-346332.	-.051	.128	-546809.	-.35	2.278	3.	.133	1.579	SI
850.	423.	3.	157260.	-.022	.058	546809.	-.35	2.278	3.	.133	3.477	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-2182.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	6086.	3948.	28335.	14044.	1.01	9.	1.
63.	63.	3.	-2644.	4455.	28335.	14044.	1.01	9.	1.
85.	85.	3.	-2911.	4455.	24411.	24577.	1.01	9.	1.75
427.	427.	3.	-6763.	3948.	28335.	14044.	1.01	9.	1.
427.	427.	3.	898.	3948.	28335.	14044.	1.01	9.	1.
> 427.	0.	3.	-1278.	3948.	28335.	14044.	1.01	9.	1.
427.	0.	3.	7377.	3948.	28335.	14044.	1.01	9.	1.
468.	41.	3.	-1496.	4455.	28335.	14044.	1.01	9.	1.
512.	85.	3.	-2093.	4455.	24411.	24577.	1.01	9.	1.75
850.	423.	3.	-6345.	3948.	28335.	14044.	1.01	9.	1.
850.	423.	3.	1631.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-146381.	-26.5	1124.3	4.02	10.22	.0321	32.64	.105	SI
41.	41.	3.	-86704.	-15.7	666.	4.02	10.22	.019	32.64	.062	SI
213.	213.	3.	180801.	-32.8	1388.7	4.02	10.22	.0397	32.64	.13	SI
427.	427.	3.	-194227.	-24.8	762.3	8.04	9.43	.0218	21.47	.047	SI
> 427.	0.	3.	-244399.	-31.2	959.2	8.04	9.43	.0275	21.47	.059	SI
638.	212.	3.	222454.	-40.3	1708.6	4.02	10.22	.0488	32.64	.159	SI
850.	423.	3.	-175219.	-31.8	1345.8	4.02	10.22	.0385	32.64	.126	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-125186.	-22.7	961.5	4.02	10.22	.0275	32.64	.09	SI
41.	41.	3.	-72790.	-13.2	559.1	4.02	10.22	.016	32.64	.052	SI
213.	213.	3.	161625.	-29.3	1241.4	4.02	10.22	.0355	32.64	.116	SI

427.	427.	3.	3.	-165490.	-21.1	649.5	8.04	9.43	.0186	21.47	.04	SI
> 427.	0.	3.	3.	-212796.	-27.2	835.2	8.04	9.43	.0239	21.47	.051	SI
638.	212.	3.	1.	196994.	-35.7	1513.1	4.02	10.22	.0432	32.64	.141	SI
850.	423.	3.	1.	-147598.	-26.8	1133.7	4.02	10.22	.0324	32.64	.106	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-121141.	-22.	930.5	4.02	10.22	.0266	32.64	.087	SI
41.	41.	3.	1.	-69734.	-12.6	535.6	4.02	10.22	.0153	32.64	.05	SI
213.	213.	3.	1.	159287.	-28.9	1223.5	4.02	10.22	.035	32.64	.114	SI
427.	427.	3.	3.	-161898.	-20.7	635.4	8.04	9.43	.0182	21.47	.039	SI
> 427.	0.	3.	3.	-208984.	-26.7	820.2	8.04	9.43	.0234	21.47	.05	SI
638.	212.	3.	1.	194298.	-35.2	1492.4	4.02	10.22	.0426	32.64	.139	SI
850.	423.	3.	1.	-142439.	-25.8	1094.	4.02	10.22	.0313	32.64	.102	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 76 - Travata T2e006 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A641	3	3	3	0	400.	350.	10.	1.3	1.8	36.654
2	A670	3	3	3	0	555.	515.	13.875	1.3	2.657	56.476

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-603295.	-.073	.151	-799812.	-.35	1.963	3.	.151	1.326	SI
0.	0.	3.	1.	328673.	-.039	.082	799812.	-.35	1.963	3.	.151	2.433	SI
123.	123.	3.	1.	-133193.	-.015	.033	-799812.	-.35	1.963	3.	.151	6.005	SI
200.	200.	3.	1.	444289.	-.053	.111	799812.	-.35	1.963	3.	.151	1.8	SI
315.	315.	3.	2.	-306982.	-.031	.047	-1289260.	-.35	1.319	3.	.21	4.2	SI
315.	315.	3.	2.	391482.	-.041	.097	802696.	-.35	2.151	3.	.14	2.05	SI
359.	359.	3.	3.	361730.	-.03	.046	1548068.	-.35	1.437	3.	.196	4.28	SI
400.	400.	3.	3.	-623687.	-.053	.094	-1306596.	-.35	1.775	3.	.165	2.095	SI
400.	400.	3.	3.	293999.	-.024	.037	1548068.	-.35	1.437	3.	.196	5.266	SI

> 400.	0.	3.	3.	-485117.	-.041	.073	-1306596.	-.35	1.775	3.	.165	2.693	SI
400.	0.	3.	3.	167804.	-.014	.021	1548068.	-.35	1.437	3.	.196	9.225	SI
441.	41.	3.	2.	-442717.	-.045	.068	-1289260.	-.35	1.319	3.	.21	2.912	SI
661.	261.	3.	4.	299884.	-.038	.075	796796.	-.35	1.795	3.	.163	2.657	SI
955.	555.	3.	4.	-472722.	-.066	.175	-547369.	-.35	2.346	3.	.13	1.158	SI
955.	555.	3.	4.	178357.	-.022	.044	796796.	-.35	1.795	3.	.163	4.467	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2433.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	10451.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	3.	-3274.	5099.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3760.	5099.	24411.	24577.	1.01	9.	1.75	SI
400.	400.	3.	-10174.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	400.	3.	1604.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	3.	-1274.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	3.	6402.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-1418.	5099.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-1814.	5099.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	3.	-5912.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	3.	1404.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-263570.	-39.1	1367.4	6.03	9.76	.0412	25.11	.103	SI
41.	41.	3.	1.	-152749.	-22.6	792.5	6.03	9.76	.0226	25.11	.057	SI
200.	200.	3.	1.	309903.	-45.9	1607.8	6.03	9.76	.0526	25.11	.132	SI
400.	400.	3.	3.	-325415.	-35.4	1025.9	10.05	9.28	.0339	19.43	.066	SI
> 400.	0.	3.	3.	-229417.	-24.9	723.2	10.05	9.28	.0207	19.43	.04	SI
661.	261.	3.	4.	208905.	-32.6	1085.7	6.03	9.64	.031	24.94	.077	SI
955.	555.	3.	4.	-223406.	-38.5	1715.7	4.02	10.33	.049	32.87	.161	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-213799.	-31.7	1109.2	6.03	9.76	.0317	25.11	.08	SI
41.	41.	3.	1.	-119404.	-17.7	619.5	6.03	9.76	.0177	25.11	.044	SI
200.	200.	3.	1.	268615.	-39.8	1393.6	6.03	9.76	.0424	25.11	.106	SI
400.	400.	3.	3.	-273350.	-29.7	861.7	10.05	9.28	.0261	19.43	.051	SI
> 400.	0.	3.	3.	-219371.	-23.8	691.6	10.05	9.28	.0198	19.43	.038	SI
661.	261.	3.	4.	210817.	-32.9	1095.6	6.03	9.64	.0313	24.94	.078	SI
955.	555.	3.	4.	-208935.	-36.	1604.6	4.02	10.33	.0458	32.87	.151	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-197955.	-29.3	1027.	6.03	9.76	.0293	25.11	.074	SI
41.	41.	3.	1.	-109663.	-16.3	568.9	6.03	9.76	.0163	25.11	.041	SI
200.	200.	3.	1.	254794.	-37.8	1321.9	6.03	9.76	.039	25.11	.098	SI
400.	400.	3.	3.	-254161.	-27.6	801.2	10.05	9.28	.0232	19.43	.045	SI
> 400.	0.	3.	3.	-217103.	-23.6	684.4	10.05	9.28	.0196	19.43	.038	SI
661.	261.	3.	4.	210865.	-32.9	1095.9	6.03	9.64	.0313	24.94	.078	SI
955.	555.	3.	4.	-204508.	-35.3	1570.6	4.02	10.33	.0449	32.87	.148	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	12.06	1.005	6.03	.503	3d16	6.03	.503	3d16
2	16.08	1.34	10.05	.838	3d16 +2d16	6.03	.503	3d16
3	22.12	1.843	10.05	.838	3d16 +2d16	12.06	1.005	3d16 +3d16
4	10.05	.838	4.02	.335	2d16	6.03	.503	3d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 77 - Travata T2e007 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma$  f (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)= 4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AcIs=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A642	3	3	3	0	400.	350.	10.	1.3	1.291	26.277
2	A671	3	3	3	0	555.	515.	13.875	1.3	4.843	102.943

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-701697.	-.086	.176	-799812.	-.35	1.963	3.	.151	1.14	SI
0.	0.	3.	1.	246588.	-.029	.061	799812.	-.35	1.963	3.	.151	3.244	SI
200.	200.	3.	1.	619750.	-.075	.155	799812.	-.35	1.963	3.	.151	1.291	SI
277.	277.	3.	1.	-56079.	-.006	.014	-799812.	-.35	1.963	3.	.151	14.26	SI
315.	315.	3.	2.	-231796.	-.023	.035	-1289260.	-.35	1.319	3.	.21	5.562	SI
315.	315.	3.	2.	461429.	-.049	.115	802696.	-.35	2.151	3.	.14	1.74	SI
359.	359.	3.	3.	372366.	-.031	.047	1548068.	-.35	1.437	3.	.196	4.157	SI
400.	400.	3.	3.	-572838.	-.049	.087	-1306596.	-.35	1.775	3.	.165	2.281	SI
400.	400.	3.	3.	252615.	-.021	.032	1548068.	-.35	1.437	3.	.196	6.128	SI
> 400.	0.	3.	3.	-323653.	-.027	.049	-1306596.	-.35	1.775	3.	.165	4.037	SI
400.	0.	3.	3.	162080.	-.013	.021	1548068.	-.35	1.437	3.	.196	9.551	SI
441.	41.	3.	2.	-301698.	-.03	.046	-1289260.	-.35	1.319	3.	.21	4.273	SI
617.	217.	3.	4.	-40759.	-.005	.015	-547369.	-.35	2.346	3.	.13	13.43	SI
939.	539.	3.	4.	164520.	-.02	.041	796796.	-.35	1.795	3.	.163	4.843	SI
955.	555.	3.	4.	-321060.	-.044	.118	-547369.	-.35	2.346	3.	.13	1.705	SI
955.	555.	3.	4.	164520.	-.02	.041	796796.	-.35	1.795	3.	.163	4.843	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1287.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	11761.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	3.	-2377.	5099.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3007.	5099.	24411.	24577.	1.01	9.	1.75	SI
400.	400.	3.	-11320.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	400.	3.	295.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	3.	-2733.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	3.	4798.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-2785.	5099.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-2926.	5099.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	3.	-4390.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	3.	3013.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma$ c	$\sigma$ f	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-472639.	!-70.	!2452.1	6.03	9.76	.0928	25.11	.233	SI
16.	16.	3.	1.	-436270.	!-64.7	!2263.4	6.03	9.76	.0838	25.11	.21	SI
41.	41.	3.	1.	-271370.	!-40.2	!1407.9	6.03	9.76	.0431	25.11	.108	SI
200.	200.	3.	1.	434717.	!-64.4	!2255.3	6.03	9.76	.0834	25.11	.21	SI
400.	400.	3.	3.	-356440.	!-38.7	!1123.7	10.05	9.28	.0386	19.43	.075	SI
> 400.	0.	3.	3.	-95097.	!-10.3	!299.8	10.05	9.28	.0086	19.43	.017	SI
661.	261.	3.	4.	75247.	!-11.7	!391.1	6.03	9.64	.0112	24.94	.028	SI
955.	555.	3.	4.	-102582.	!-17.7	!787.8	4.02	10.33	.0225	32.87	.074	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-371141.	-55.	1925.5	6.03	9.76	.0677	25.11	.17	SI
16.	16.	3.	-341604.	-50.6	1772.2	6.03	9.76	.0604	25.11	.152	SI
41.	41.	3.	-207682.	-30.8	1077.5	6.03	9.76	.0308	25.11	.077	SI
200.	200.	3.	358654.	-53.2	1860.7	6.03	9.76	.0647	25.11	.162	SI
400.	400.	3.	-286772.	-31.2	904.1	10.05	9.28	.0281	19.43	.055	SI
> 400.	0.	3.	-84007.	-9.1	264.8	10.05	9.28	.0076	19.43	.015	SI
661.	261.	3.	74828.	-11.7	388.9	6.03	9.64	.0111	24.94	.028	SI
955.	555.	3.	-84029.	-14.5	645.3	4.02	10.33	.0184	32.87	.061	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-335687.	-49.7	1741.5	6.03	9.76	.059	25.11	.148	SI
16.	16.	3.	-308760.	-45.8	1601.8	6.03	9.76	.0523	25.11	.131	SI
41.	41.	3.	-186668.	-27.7	968.4	6.03	9.76	.0277	25.11	.069	SI
200.	200.	3.	327952.	-48.6	1701.4	6.03	9.76	.0571	25.11	.143	SI
400.	400.	3.	-260515.	-28.3	821.3	10.05	9.28	.0242	19.43	.047	SI
> 400.	0.	3.	-81141.	-8.8	255.8	10.05	9.28	.0073	19.43	.014	SI
661.	261.	3.	74993.	-11.7	389.7	6.03	9.64	.0111	24.94	.028	SI
955.	555.	3.	-78577.	-13.6	603.5	4.02	10.33	.0172	32.87	.057	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	12.06	1.005	6.03	.503	3d16	6.03	.503	3d16
2	16.08	1.34	10.05	.838	3d16 +2d16	6.03	.503	3d16
3	22.12	1.843	10.05	.838	3d16 +2d16	12.06	1.005	3d16 +3d16
4	10.05	.838	4.02	.335	2d16	6.03	.503	3d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 78 - Travata T2e008 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc=1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A655	3	3	3	0	400.	350.	10.	1.3	2.107	47.618
2	A672	3	3	3	0	555.	515.	13.875	1.3	3.073	69.436

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-308126.	-.045	.114	-546809.	-.35	2.278	3.	.133	1.775	SI
0.	0.	3.	303269.	-.044	.112	546809.	-.35	2.278	3.	.133	1.803	SI

123.	123.	3.	1.	-79064.	-.011	.029	-546809.	-.35	2.278	3.	.133	6.916	SI
277.	277.	3.	1.	-463824.	-.069	.172	-546809.	-.35	2.278	3.	.133	1.179	SI
315.	315.	3.	2.	-309581.	-.035	.059	-1039699.	-.35	1.395	3.	.201	3.358	SI
315.	315.	3.	2.	116589.	-.015	.043	547697.	-.35	2.388	3.	.128	4.698	SI
359.	359.	3.	3.	340056.	-.034	.064	1051660.	-.35	1.781	3.	.164	3.093	SI
384.	384.	3.	3.	499067.	-.051	.094	1051660.	-.35	1.781	3.	.164	2.107	SI
400.	400.	3.	3.	-200745.	-.02	.038	-1051660.	-.35	1.781	3.	.164	5.239	SI
400.	400.	3.	3.	499067.	-.051	.094	1051660.	-.35	1.781	3.	.164	2.107	SI
> 400.	0.	3.	3.	-305649.	-.031	.057	-1051660.	-.35	1.781	3.	.164	3.441	SI
400.	0.	3.	3.	162232.	-.016	.03	1051660.	-.35	1.781	3.	.164	6.482	SI
441.	41.	3.	2.	-283879.	-.032	.054	-1039699.	-.35	1.395	3.	.201	3.662	SI
441.	41.	3.	2.	162409.	-.021	.06	547697.	-.35	2.388	3.	.128	3.372	SI
617.	217.	3.	1.	-26563.	-.004	.01	-546809.	-.35	2.278	3.	.133	20.59	SI
939.	539.	3.	1.	177951.	-.026	.066	546809.	-.35	2.278	3.	.133	3.073	SI
955.	555.	3.	1.	-291143.	-.042	.107	-546809.	-.35	2.278	3.	.133	1.878	SI
955.	555.	3.	1.	177951.	-.026	.066	546809.	-.35	2.278	3.	.133	3.073	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-4105.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	5195.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	3.	-4728.	4455.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-5088.	4455.	24411.	24577.	1.01	9.	1.75	SI
238.	238.	3.	-7599.	4455.	19541.	11703.	1.01	27.	2.5	SI
277.	277.	3.	10248.	4455.	19541.	11703.	1.01	27.	2.5	SI
400.	400.	3.	-3677.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	400.	3.	8753.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	3.	-1978.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	3.	3909.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-2029.	4455.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-2171.	4455.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	3.	-3634.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	3.	2124.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-35719.	-6.5	274.4	4.02	10.22	.0078	32.64	.026	SI
25.	25.	3.	1.	-25161.	-4.6	193.3	4.02	10.22	.0055	32.64	.018	SI
277.	277.	3.	1.	-349147.	-63.3	2681.7	4.02	10.22	.0918	32.64	.3	SI
400.	400.	3.	3.	-28067.	-3.6	110.2	8.04	9.43	.0031	21.47	.007	SI
400.	400.	3.	3.	189421.	-24.2	743.4	8.04	9.43	.0212	21.47	.046	SI
> 400.	0.	3.	3.	-87091.	-11.1	341.8	8.04	9.43	.0098	21.47	.021	SI
704.	304.	3.	1.	74690.	-13.5	573.7	4.02	10.22	.0164	32.64	.054	SI
955.	555.	3.	1.	-77731.	-14.1	597.	4.02	10.22	.0171	32.64	.056	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-17450.	-3.2	134.	4.02	10.22	.0038	32.64	.012	SI
25.	25.	3.	1.	7769.	-1.4	59.7	4.02	10.22	.0017	32.64	.006	SI
277.	277.	3.	1.	-302059.	-54.8	2320.1	4.02	10.22	.0746	32.64	.243	SI
400.	400.	3.	3.	-23188.	-3.	91.	8.04	9.43	.0026	21.47	.006	SI
400.	400.	3.	3.	147248.	-18.8	577.9	8.04	9.43	.0165	21.47	.035	SI
> 400.	0.	3.	3.	-74331.	-9.5	291.7	8.04	9.43	.0083	21.47	.018	SI
704.	304.	3.	1.	75091.	-13.6	576.8	4.02	10.22	.0165	32.64	.054	SI
955.	555.	3.	1.	-61296.	-11.1	470.8	4.02	10.22	.0135	32.64	.044	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-10309.	-1.9	79.2	4.02	10.22	.0023	32.64	.007	SI
25.	25.	3.	1.	6399.	-1.2	49.1	4.02	10.22	.0014	32.64	.005	SI
277.	277.	3.	1.	-286242.	-51.9	2198.6	4.02	10.22	.0688	32.64	.225	SI
400.	400.	3.	3.	-20524.	-2.6	80.5	8.04	9.43	.0023	21.47	.005	SI
400.	400.	3.	3.	135306.	-17.3	531.	8.04	9.43	.0152	21.47	.033	SI
> 400.	0.	3.	3.	-71774.	-9.2	281.7	8.04	9.43	.008	21.47	.017	SI
661.	261.	3.	1.	75012.	-13.6	576.2	4.02	10.22	.0165	32.64	.054	SI
955.	555.	3.	1.	-65366.	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

ARMATURE LONGITUDINALI (%=100\*Af/Ac1s - Ac1s=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 79 - Travata T2e009 (trave)  
 Metodo di verifica : stati limite (NTC08).



Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO:  $\sigma$  f (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A697	3	3	3	0	420.	380.	10.5	1.3	2.024	45.729
2	A702	3	3	3	0	360.	320.	9.003	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-236612.	-.034	.087	-546809.	-.35	2.278	3.	.133	2.311	SI
0.	0.	3.	1.	120043.	-.017	.044	546809.	-.35	2.278	3.	.133	4.555	SI
205.	205.	3.	1.	270206.	-.039	.1	546809.	-.35	2.278	3.	.133	2.024	SI
332.	332.	3.	2.	-158603.	-.018	.03	-1039699.	-.35	1.395	3.	.201	6.555	SI
332.	332.	3.	2.	167265.	-.021	.062	547697.	-.35	2.388	3.	.128	3.274	SI
394.	394.	3.	3.	79666.	-.008	.015	1051660.	-.35	1.781	3.	.164	13.2	SI
420.	420.	3.	3.	-385396.	-.039	.073	-1051660.	-.35	1.781	3.	.164	2.729	SI
420.	420.	3.	3.	24442.	-.002	.005	1051660.	-.35	1.781	3.	.164	43.03	SI
> 420.	0.	3.	3.	-215910.	-.021	.041	-1051660.	-.35	1.781	3.	.164	4.871	SI
420.	0.	3.	3.	131975.	-.013	.025	1051660.	-.35	1.781	3.	.164	7.969	SI
461.	41.	3.	2.	-194984.	-.022	.037	-1039699.	-.35	1.395	3.	.201	5.332	SI
461.	41.	3.	2.	125116.	-.016	.046	547697.	-.35	2.388	3.	.128	4.378	SI
625.	205.	3.	1.	-23782.	-.003	.009	-546809.	-.35	2.278	3.	.133	22.99	SI
780.	360.	3.	1.	-211306.	-.03	.078	-546809.	-.35	2.278	3.	.133	2.588	SI
780.	360.	3.	1.	108823.	-.015	.04	546809.	-.35	2.278	3.	.133	5.025	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-1374.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	1.	6292.	3948.	28335.	14044.	1.01	9.	1.	SI
78.	78.	3.	1.	-2252.	4455.	24411.	24577.	1.01	9.	1.75	SI
420.	420.	3.	1.	-6534.	3948.	28335.	14044.	1.01	9.	1.	SI
420.	420.	3.	1.	751.	3948.	28335.	14044.	1.01	9.	1.	SI
> 420.	0.	3.	1.	-3044.	3948.	28335.	14044.	1.01	9.	1.	SI
420.	0.	3.	1.	5476.	3948.	28335.	14044.	1.01	9.	1.	SI
461.	41.	3.	1.	-3119.	4455.	28335.	14044.	1.01	9.	1.	SI
505.	85.	3.	1.	-3324.	4455.	24411.	24577.	1.01	9.	1.75	SI
780.	360.	3.	1.	-4537.	3948.	28335.	14044.	1.01	9.	1.	SI
780.	360.	3.	1.	3796.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
16.	16.	3. 1.	-131934.	-23.9	1013.4	4.02	10.22	.029	32.64	.095	SI
205.	205.	3. 1.	193994.	-35.2	1490.	4.02	10.22	.0426	32.64	.139	SI
420.	420.	3. 3.	-269734.	-34.5	1058.6	8.04	9.43	.0322	21.47	.069	SI
> 420.	0.	3. 3.	-58126.	-7.4	228.1	8.04	9.43	.0065	21.47	.014	SI
585.	165.	3. 1.	41525.	-7.5	318.9	4.02	10.22	.0091	32.64	.03	SI
780.	360.	3. 1.	-77244.	-14.	593.3	4.02	10.22	.017	32.64	.055	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
16.	16.	3. 1.	-116742.	-21.2	896.7	4.02	10.22	.0256	32.64	.084	SI
32.	32.	3. 1.	-80987.	-14.7	622.	4.02	10.22	.0178	32.64	.058	SI
205.	205.	3. 1.	171618.	-31.1	1318.2	4.02	10.22	.0377	32.64	.123	SI
420.	420.	3. 3.	-227839.	-29.1	894.2	8.04	9.43	.0255	21.47	.055	SI
> 420.	0.	3. 3.	-44569.	-5.7	174.9	8.04	9.43	.005	21.47	.011	SI
585.	165.	3. 1.	41256.	-7.5	316.9	4.02	10.22	.0091	32.64	.03	SI
780.	360.	3. 1.	-58187.	-10.5	446.9	4.02	10.22	.0128	32.64	.042	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
16.	16.	3. 1.	-115003.	-20.8	883.3	4.02	10.22	.0252	32.64	.082	SI
32.	32.	3. 1.	-79749.	-14.5	612.5	4.02	10.22	.0175	32.64	.057	SI
205.	205.	3. 1.	168810.	-30.6	1296.6	4.02	10.22	.037	32.64	.121	SI
420.	420.	3. 3.	-218666.	-27.9	858.2	8.04	9.43	.0245	21.47	.053	SI
> 420.	0.	3. 3.	-43682.	-5.6	171.4	8.04	9.43	.0049	21.47	.011	SI
585.	165.	3. 1.	41273.	-7.5	317.	4.02	10.22	.0091	32.64	.03	SI
780.	360.	3. 1.	-52162.	-9.5	400.6	4.02	10.22	.0114	32.64	.037	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 80 - Travata T2e010 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1'7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A658	3	3	3	0	410.	370.	10.25	1.3	2.422	54.74
2	A673	3	3	3	0	570.	530.	14.25	1.3	4.079	92.168

CASI DI CARICO DA MODELLO 3D

SLU			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
1.	SLU	1.	18.	Frequente	1.	21.	Quasi Perm	1.
2.	SLU VENTOX	2.	19.	Frequente VentOX	2.			
3.	SLU VENTOY	2.	20.	Frequente VentoY	2.			
6.	SLU con SISMAX	PRINC16						
7.	SLU con SISMAX	PRINC16						

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-250862.	-.036	.093	-546809.	-.35	2.278	3.	.133	2.18	SI
0.	0.	3. 1.	108419.	-.015	.04	546809.	-.35	2.278	3.	.133	5.043	SI
158.	158.	3. 1.	225725.	-.033	.083	546809.	-.35	2.278	3.	.133	2.422	SI
242.	242.	3. 1.	-5296.	-.001	.002	-546809.	-.35	2.278	3.	.133	103.2	SI
325.	325.	3. 2.	-171120.	-.019	.032	-1039699.	-.35	1.395	3.	.201	6.076	SI
325.	325.	3. 2.	106158.	-.013	.039	547697.	-.35	2.388	3.	.128	5.159	SI
385.	385.	3. 3.	58271.	-.006	.011	1051660.	-.35	1.781	3.	.164	18.05	SI
410.	410.	3. 3.	-254774.	-.025	.048	-1051660.	-.35	1.781	3.	.164	4.128	SI
410.	410.	3. 3.	37345.	-.004	.007	1051660.	-.35	1.781	3.	.164	28.16	SI
> 410.	0.	3. 3.	-291756.	-.029	.055	-1051660.	-.35	1.781	3.	.164	3.605	SI
410.	0.	3. 3.	124679.	-.012	.023	1051660.	-.35	1.781	3.	.164	8.435	SI
451.	41.	3. 2.	-271834.	-.031	.052	-1039699.	-.35	1.395	3.	.201	3.825	SI
451.	41.	3. 2.	129242.	-.016	.048	547697.	-.35	2.388	3.	.128	4.238	SI
768.	358.	3. 1.	-22591.	-.003	.008	-546809.	-.35	2.278	3.	.133	24.21	SI
927.	517.	3. 1.	134062.	-.019	.049	546809.	-.35	2.278	3.	.133	4.079	SI
980.	570.	3. 1.	-267034.	-.039	.099	-546809.	-.35	2.278	3.	.133	2.048	SI
980.	570.	3. 1.	132709.	-.019	.049	546809.	-.35	2.278	3.	.133	4.12	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3. 1.	-1892.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3. 1.	6168.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3. 1.	-2689.	4455.	28335.	14044.	1.01	9.	1.	SI
325.	325.	3. 1.	-6033.	4455.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3. 1.	-5708.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3. 1.	1943.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3. 1.	-1901.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3. 1.	3830.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3. 1.	-1952.	4455.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3. 1.	-2089.	4455.	24411.	24577.	1.01	9.	1.75	SI
980.	570.	3. 1.	-3561.	3948.	28335.	14044.	1.01	9.	1.	SI
980.	570.	3. 1.	2045.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-129340.	-23.4	993.4	4.02	10.22	.0284	32.64	.093	SI
31.	31.	3. 1.	-83798.	-15.2	643.6	4.02	10.22	.0184	32.64	.06	SI
158.	158.	3. 1.	159454.	-28.9	1224.7	4.02	10.22	.035	32.64	.114	SI
410.	410.	3. 3.	-179641.	-23.	705.	8.04	9.43	.0201	21.47	.043	SI
> 410.	0.	3. 3.	-110354.	-14.1	433.1	8.04	9.43	.0124	21.47	.027	SI
723.	313.	3. 1.	75231.	-13.6	577.8	4.02	10.22	.0165	32.64	.054	SI
980.	570.	3. 1.	-87137.	-15.8	669.3	4.02	10.22	.0191	32.64	.062	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-96367.	-17.5	740.2	4.02	10.22	.0211	32.64	.069	SI
31.	31.	3. 1.	-58953.	-10.7	452.8	4.02	10.22	.0129	32.64	.042	SI
158.	158.	3. 1.	135469.	-24.6	1040.5	4.02	10.22	.0297	32.64	.097	SI
410.	410.	3. 3.	-143440.	-18.3	563.	8.04	9.43	.0161	21.47	.035	SI
> 410.	0.	3. 3.	-89241.	-11.4	350.2	8.04	9.43	.01	21.47	.021	SI
723.	313.	3. 1.	74722.	-13.5	573.9	4.02	10.22	.0164	32.64	.054	SI
980.	570.	3. 1.	-70929.	-12.9	544.8	4.02	10.22	.0156	32.64	.051	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-85412.	-15.5	656.	4.02	10.22	.0187	32.64	.061	SI
31.	31.	3. 1.	-51082.	-9.3	392.4	4.02	10.22	.0112	32.64	.037	SI
158.	158.	3. 1.	125688.	-22.8	965.4	4.02	10.22	.0276	32.64	.09	SI
410.	410.	3. 3.	-131189.	-16.8	514.9	8.04	9.43	.0147	21.47	.032	SI
> 410.	0.	3. 3.	-83737.	-10.7	328.6	8.04	9.43	.0094	21.47	.02	SI
677.	267.	3. 1.	74962.	-13.6	575.8	4.02	10.22	.0165	32.64	.054	SI
980.	570.	3. 1.	-67319.	-12.2	517.1	4.02	10.22	.0148	32.64	.048	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 81 - Travata T2e011 (trave)

Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogenein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acls=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A643	3	3	3	0	410.	370.	10.25	1.3	2.108	47.637
2	A674	3	3	3	0	555.	515.	13.875	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-328970.	-.048	.122	-546809.	-.35	2.278	3.	.133	1.662	SI
0.	0.	3.	1.	143264.	-.02	.053	546809.	-.35	2.278	3.	.133	3.817	SI
200.	200.	3.	1.	259384.	-.038	.096	546809.	-.35	2.278	3.	.133	2.108	SI
283.	283.	3.	1.	-52058.	-.007	.019	-546809.	-.35	2.278	3.	.133	10.5	SI
325.	325.	3.	2.	-149826.	-.017	.028	-1039699.	-.35	1.395	3.	.201	6.939	SI
325.	325.	3.	2.	213643.	-.027	.079	547697.	-.35	2.388	3.	.128	2.564	SI
369.	369.	3.	3.	187201.	-.019	.035	1051660.	-.35	1.781	3.	.164	5.618	SI
410.	410.	3.	3.	-318813.	-.032	.06	-1051660.	-.35	1.781	3.	.164	3.299	SI
410.	410.	3.	3.	144439.	-.014	.027	1051660.	-.35	1.781	3.	.164	7.281	SI
> 410.	0.	3.	3.	-220083.	-.022	.041	-1051660.	-.35	1.781	3.	.164	4.778	SI
410.	0.	3.	3.	81753.	-.008	.015	1051660.	-.35	1.781	3.	.164	12.86	SI
451.	41.	3.	2.	-203576.	-.023	.039	-1039699.	-.35	1.395	3.	.201	5.107	SI
451.	41.	3.	2.	93178.	-.012	.034	547697.	-.35	2.388	3.	.128	5.878	SI
539.	129.	3.	2.	98907.	-.012	.036	547697.	-.35	2.388	3.	.128	5.538	SI
758.	348.	3.	1.	-10375.	-.001	.004	-546809.	-.35	2.278	3.	.133	52.7	SI
965.	555.	3.	1.	-224091.	-.032	.083	-546809.	-.35	2.278	3.	.133	2.44	SI
965.	555.	3.	1.	38957.	-.005	.014	546809.	-.35	2.278	3.	.133	14.04	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1731.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6551.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2477.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2477.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-6328.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	1457.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1973.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	3914.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-2024.	4455.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2166.	4455.	24411.	24577.	1.01	9.	1.75	SI
965.	555.	3.	-3629.	3948.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	2129.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-197458.!	-35.8!	1516.6!	4.02	10.22	.0433	32.64	.141	SI
15.	15.	3.	1.	-175466.	-31.8	1347.7	4.02	10.22	.0385	32.64	.126	SI
31.	31.	3.	1.	-128357.	-23.3	985.9	4.02	10.22	.0282	32.64	.092	SI
200.	200.	3.	1.	183648.!	-33.3	1410.6	4.02	10.22	.0403	32.64	.132	SI
410.	410.	3.	3.	-172919.	-22.1	678.7	8.04	9.43	.0194	21.47	.042	SI
> 410.	0.	3.	3.	-88902.	-11.4	348.9	8.04	9.43	.01	21.47	.021	SI
671.	261.	3.	1.	74741.!	-13.5	574.1	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3.	1.	-113657.!	-20.6!	873.!	4.02	10.22	.0249	32.64	.081	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-149447.!	-27.1!	1147.9	4.02	10.22	.0328	32.64	.107	SI
15.	15.	3.	1.	-131567.	-23.9	1010.5	4.02	10.22	.0289	32.64	.094	SI
31.	31.	3.	1.	-93269.	-16.9	716.4	4.02	10.22	.0205	32.64	.067	SI
200.	200.	3.	1.	156859.!	-28.4!	1204.8!	4.02	10.22	.0344	32.64	.112	SI
410.	410.	3.	3.	-132718.	-17.	520.9	8.04	9.43	.0149	21.47	.032	SI
> 410.	0.	3.	3.	-73737.	-9.4	289.4	8.04	9.43	.0083	21.47	.018	SI
671.	261.	3.	1.	74998.!	-13.6	576.	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	1.	-97004.!	-17.6!	745.1!	4.02	10.22	.0213	32.64	.069	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-131446.!	-23.8!	1009.6	4.02	10.22	.0288	32.64	.094	SI
15.	15.	3.	1.	-115145.	-20.9	884.4	4.02	10.22	.0253	32.64	.082	SI
31.	31.	3.	1.	-80229.	-14.5	616.2	4.02	10.22	.0176	32.64	.057	SI
200.	200.	3.	1.	145172.!	-26.3!	1115.!	4.02	10.22	.0319	32.64	.104	SI
410.	410.	3.	3.	-120893.	-15.4	474.5	8.04	9.43	.0136	21.47	.029	SI
> 410.	0.	3.	3.	-69661.	-8.9	273.4	8.04	9.43	.0078	21.47	.017	SI
671.	261.	3.	1.	75235.!	-13.6	577.9	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	1.	-94090.!	-17.1!	722.7!	4.02	10.22	.0206	32.64	.067	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 82 - Travata T2e012 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A644	3	3	3	0	410.	370.	10.25	1.3	4.564	103.132
2	A675	3	3	3	0	570.	530.	14.25	1.3	4.192	94.737

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-272413.	-.04	.101	-546809.	-.35	2.278	3.	.133	2.007	SI
0.	0.	3.	141335.	-.02	.052	546809.	-.35	2.278	3.	.133	3.869	SI
200.	200.	3.	-3451.	0.	.001	-546809.	-.35	2.278	3.	.133	158.4	SI
325.	325.	3.	-128966.	-.014	.024	-1039699.	-.35	1.395	3.	.201	8.062	SI
325.	325.	3.	176370.	-.022	.065	547697.	-.35	2.388	3.	.128	3.105	SI
385.	385.	3.	223757.	-.022	.042	1051660.	-.35	1.781	3.	.164	4.7	SI
394.	394.	3.	230428.	-.023	.043	1051660.	-.35	1.781	3.	.164	4.564	SI
410.	410.	3.	-205423.	-.02	.039	-1051660.	-.35	1.781	3.	.164	5.119	SI
410.	410.	3.	230428.	-.023	.043	1051660.	-.35	1.781	3.	.164	4.564	SI
> 410.	0.	3.	-197769.	-.02	.037	-1051660.	-.35	1.781	3.	.164	5.318	SI
410.	0.	3.	123703.	-.012	.023	1051660.	-.35	1.781	3.	.164	8.501	SI
451.	41.	3.	-182174.	-.021	.035	-1039699.	-.35	1.395	3.	.201	5.707	SI
451.	41.	3.	129743.	-.016	.048	547697.	-.35	2.388	3.	.128	4.221	SI
495.	85.	3.	130639.	-.017	.048	547697.	-.35	2.388	3.	.128	4.192	SI
632.	222.	3.	-4053.	-.001	.001	-546809.	-.35	2.278	3.	.133	134.9	SI
980.	570.	3.	-248368.	-.036	.092	-546809.	-.35	2.278	3.	.133	2.202	SI
980.	570.	3.	39240.	-.006	.014	546809.	-.35	2.278	3.	.133	13.94	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-3526.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	4378.	3948.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-3701.	4455.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-3701.	4455.	24411.	24577.	1.01	9.	1.75
410.	410.	3.	-4609.	3948.	28335.	14044.	1.01	9.	1.
410.	410.	3.	3178.	3948.	28335.	14044.	1.01	9.	1.
> 410.	0.	3.	-1895.	3948.	28335.	14044.	1.01	9.	1.
410.	0.	3.	3837.	3948.	28335.	14044.	1.01	9.	1.
451.	41.	3.	-1945.	4455.	28335.	14044.	1.01	9.	1.
495.	85.	3.	-2083.	4455.	24411.	24577.	1.01	9.	1.75
980.	570.	3.	-3555.	3948.	28335.	14044.	1.01	9.	1.
980.	570.	3.	2052.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-119368.	-21.6	916.8	4.02	10.22	.0262	32.64	.086	SI
15.	15.	3.	-112629.	-20.4	865.1	4.02	10.22	.0247	32.64	.081	SI
369.	369.	3.	64956.	-10.7	498.9	4.02	10.43	.0143	33.07	.047	SI
410.	410.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	62848.	-8.	246.7	8.04	9.43	.007	21.47	.015	SI
> 410.	0.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
632.	222.	3.	74579.	-13.5	572.8	4.02	10.22	.0164	32.64	.053	SI
980.	570.	3.	-133314.	-24.2	1024.	4.02	10.22	.0293	32.64	.095	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-79187.	-14.4	608.2	4.02	10.22	.0174	32.64	.057	SI
15.	15.	3.	-74123.	-13.4	569.3	4.02	10.22	.0163	32.64	.053	SI
31.	31.	3.	-63275.	-11.5	486.	4.02	10.22	.0139	32.64	.045	SI
283.	283.	3.	36041.	-6.5	276.8	4.02	10.22	.0079	32.64	.026	SI
410.	410.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	17025.	-2.2	66.8	8.04	9.43	.0019	21.47	.004	SI
> 410.	0.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
677.	267.	3.	74533.	-13.5	572.5	4.02	10.22	.0164	32.64	.053	SI
980.	570.	3.	-112253.	-20.3	862.2	4.02	10.22	.0246	32.64	.08	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	-67564.	-12.2	518.9	4.02	10.22	.0148	32.64	.048	SI
15.	15.	3.	-62948.	-11.4	483.5	4.02	10.22	.0138	32.64	.045	SI
31.	31.	3.	-53059.	-9.6	407.5	4.02	10.22	.0116	32.64	.038	SI
242.	242.	3.	34040.	-6.2	261.5	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	3748.	-5	14.7	8.04	9.43	.0004	21.47	.001	SI
> 410.	0.	3.	-65344.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
677.	267.	3.	74881.	-13.6	575.1	4.02	10.22	.0164	32.64	.054	SI
980.	570.	3.	-106458.	-19.3	817.7	4.02	10.22	.0234	32.64	.076	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 83 - Travata T2e013 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σ (quasi permanente)= 93.4; fbd(esesercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A695	3	3	3	0	246.	206.	6.15	1.3	3.294	74.444
2	A700	3	3	3	0	360.	320.	9.	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-114090.	-.016	.042	-546809.	-.35	2.278	3.	.133	4.793	SI
0.	0.	3. 1.	165981.	-.024	.061	546809.	-.35	2.278	3.	.133	3.294	SI
177.	177.	3. 2.	-172286.	-.019	.033	-1039699.	-.35	1.395	3.	.201	6.035	SI
177.	177.	3. 2.	54702.	-.007	.02	547697.	-.35	2.388	3.	.128	10.01	SI
219.	219.	3. 3.	37966.	-.004	.007	1051660.	-.35	1.781	3.	.164	27.7	SI
246.	246.	3. 3.	-314562.	-.031	.059	-1051660.	-.35	1.781	3.	.164	3.343	SI
246.	246.	3. 3.	12907.	-.001	.002	1051660.	-.35	1.781	3.	.164	81.48	SI
> 246.	0.	3. 3.	-175533.	-.017	.033	-1051660.	-.35	1.781	3.	.164	5.991	SI
246.	0.	3. 3.	105462.	-.01	.02	1051660.	-.35	1.781	3.	.164	9.972	SI
288.	42.	3. 2.	-156103.	-.018	.03	-1039699.	-.35	1.395	3.	.201	6.66	SI
288.	42.	3. 2.	102145.	-.013	.038	547697.	-.35	2.388	3.	.128	5.362	SI
411.	165.	3. 1.	-9571.	-.001	.004	-546809.	-.35	2.278	3.	.133	57.13	SI
606.	360.	3. 1.	-186797.	-.027	.069	-546809.	-.35	2.278	3.	.133	2.927	SI
606.	360.	3. 1.	83306.	-.012	.031	546809.	-.35	2.278	3.	.133	6.564	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-5176.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	8149.	3948.	28335.	14044.	1.01	9.	1.
82.	82.	3.	-6186.	4455.	24411.	24577.	1.01	9.	1.75
246.	246.	3.	-8266.	3948.	28335.	14044.	1.01	9.	1.
246.	246.	3.	4458.	3948.	28335.	14044.	1.01	9.	1.

>	246.	0.	3.	-3785.	3948.	28335.	14044.	1.01	9.	1.	SI
	246.	0.	3.	5498.	3948.	28335.	14044.	1.01	9.	1.	SI
	288.	42.	3.	-3863.	4455.	28335.	14044.	1.01	9.	1.	SI
	332.	86.	3.	-4071.	4455.	24411.	24577.	1.01	9.	1.75	SI
	606.	360.	3.	-5279.	3948.	28335.	14044.	1.01	9.	1.	SI
	606.	360.	3.	3818.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
0.	0.	3.	1.	45990.	-8.3	353.2	4.02	10.22	.0101	32.64	.033	SI
58.	58.	3.	1.	75775.	-13.7	582.	4.02	10.22	.0166	32.64	.054	SI
>	246.	246.	3.	-206291.	-26.4	809.6	8.04	9.43	.0231	21.47	.05	SI
>	246.	0.	3.	-54038.	-6.9	212.1	8.04	9.43	.0061	21.47	.013	SI
	411.	165.	3.	41063.	-7.4	315.4	4.02	10.22	.009	32.64	.029	SI
	606.	360.	3.	-78810.	-14.3	605.3	4.02	10.22	.0173	32.64	.056	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
0.	0.	3.	1.	25740.	-4.7	197.7	4.02	10.22	.0056	32.64	.018	SI
16.	16.	3.	1.	40857.	-7.4	313.8	4.02	10.22	.009	32.64	.029	SI
82.	82.	3.	1.	66743.	-12.1	512.6	4.02	10.22	.0146	32.64	.048	SI
246.	246.	3.	3.	-167515.	-21.4	657.5	8.04	9.43	.0188	21.47	.04	SI
>	246.	0.	3.	-38590.	-4.9	151.5	8.04	9.43	.0043	21.47	.009	SI
	411.	165.	3.	41041.	-7.4	315.2	4.02	10.22	.009	32.64	.029	SI
	606.	360.	3.	-57970.	-10.5	445.3	4.02	10.22	.0127	32.64	.042	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
0.	0.	3.	1.	17878.	-3.2	137.3	4.02	10.22	.0039	32.64	.013	SI
16.	16.	3.	1.	34169.	-6.2	262.4	4.02	10.22	.0075	32.64	.024	SI
82.	82.	3.	1.	65298.	-11.8	501.5	4.02	10.22	.0143	32.64	.047	SI
246.	246.	3.	3.	-156664.	-20.	614.9	8.04	9.43	.0176	21.47	.038	SI
>	246.	0.	3.	-35846.	-4.6	140.7	8.04	9.43	.004	21.47	.009	SI
	411.	165.	3.	41252.	-7.5	316.8	4.02	10.22	.0091	32.64	.03	SI
	606.	360.	3.	-51955.	-9.4	399.1	4.02	10.22	.0114	32.64	.037	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 84 - Travata T2e014 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	lam.max
1	A645	3	3	3	0	410.	370.	10.25	1.3	4.259	96.236
2	A676	3	3	3	0	555.	515.	13.875	1.3	3.643	82.33

CASI DI CARICO DA MODELLO 3D

Nome	SLU	Descrizione	Sest
1.	SLU		1.



2. |SLU VENTOX 2. |  
 3. |SLU VENTOX 2. |  
 6. |SLU con SISMAX PRINC16 |  
 7. |SLU con SISMAX PRINC16 |

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-290151.	-.042	.107	-.546809.	-.35	2.278	3.	.133	1.885	SI
0.	0.	3.	1.	182311.	-.026	.067	546809.	-.35	2.278	3.	.133	2.999	SI
200.	200.	3.	1.	-7006.	-.001	.003	-546809.	-.35	2.278	3.	.133	78.05	SI
325.	325.	3.	2.	-160066.	-.018	.03	-1039699.	-.35	1.395	3.	.201	6.495	SI
325.	325.	3.	2.	187014.	-.024	.069	547697.	-.35	2.388	3.	.128	2.929	SI
369.	369.	3.	3.	226145.	-.022	.043	1051660.	-.35	1.781	3.	.164	4.65	SI
394.	394.	3.	3.	246938.	-.025	.046	1051660.	-.35	1.781	3.	.164	4.259	SI
410.	410.	3.	3.	-248450.	-.025	.047	-1051660.	-.35	1.781	3.	.164	4.233	SI
410.	410.	3.	3.	246938.	-.025	.046	1051660.	-.35	1.781	3.	.164	4.259	SI
> 410.	0.	3.	3.	-245363.	-.024	.046	-1051660.	-.35	1.781	3.	.164	4.286	SI
410.	0.	3.	3.	149654.	-.015	.028	1051660.	-.35	1.781	3.	.164	7.027	SI
451.	41.	3.	2.	-226759.	-.026	.043	-1039699.	-.35	1.395	3.	.201	4.585	SI
451.	41.	3.	2.	150241.	-.019	.055	547697.	-.35	2.388	3.	.128	3.645	SI
473.	63.	3.	2.	150325.	-.019	.055	547697.	-.35	2.388	3.	.128	3.643	SI
627.	217.	3.	1.	-12890.	-.002	.005	-546809.	-.35	2.278	3.	.133	42.42	SI
965.	555.	3.	1.	-294860.	-.043	.109	-546809.	-.35	2.278	3.	.133	1.854	SI
965.	555.	3.	1.	100382.	-.014	.037	546809.	-.35	2.278	3.	.133	5.447	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-3533.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	4607.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3708.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3708.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-4615.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	3407.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1970.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	3917.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-2021.	4455.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2163.	4455.	24411.	24577.	1.01	9.	1.75	SI
965.	555.	3.	-3626.	3948.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	2132.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-108044.	-.19.6	829.9	4.02	10.22	.0237	32.64	.077	SI
15.	15.	3.	1.	-101487.	-.18.4	779.5	4.02	10.22	.0223	32.64	.073	SI
347.	347.	3.	2.	52588.	-.8.7	403.9	4.02	10.43	.0115	33.07	.038	SI
410.	410.	3.	3.	-29817.	-.3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	3.	46848.	-.6.	183.9	8.04	9.43	.0053	21.47	.011	SI
> 410.	0.	3.	3.	-60657.	-.7.8	238.1	8.04	9.43	.0068	21.47	.015	SI
627.	217.	3.	1.	74550.	-.13.5	572.6	4.02	10.22	.0164	32.64	.053	SI
965.	555.	3.	1.	-129732.	-.23.5	996.4	4.02	10.22	.0285	32.64	.093	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-67696.	-.12.3	520.	4.02	10.22	.0149	32.64	.048	SI
15.	15.	3.	1.	-62840.	-.11.4	482.7	4.02	10.22	.0138	32.64	.045	SI
31.	31.	3.	1.	-52439.	-.9.5	402.8	4.02	10.22	.0115	32.64	.038	SI
242.	242.	3.	1.	34240.	-.6.2	263.	4.02	10.22	.0075	32.64	.025	SI
410.	410.	3.	3.	-29817.	-.3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	3.	2599.	-.3.	10.2	8.04	9.43	.0003	21.47	.001	SI
> 410.	0.	3.	3.	-65366.	-.8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
671.	261.	3.	1.	74912.	-.13.6	575.4	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3.	1.	-105119.	-.19.1	807.4	4.02	10.22	.0231	32.64	.075	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-56471.	-.10.2	433.7	4.02	10.22	.0124	32.64	.04	SI
15.	15.	3.	1.	-52061.	-.9.4	399.9	4.02	10.22	.0114	32.64	.037	SI
31.	31.	3.	1.	-42615.	-.7.7	327.3	4.02	10.22	.0094	32.64	.031	SI
242.	242.	3.	1.	34096.	-.6.2	261.9	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	3.	-29817.	-.3.8	117.	8.04	9.43	.0033	21.47	.007	SI

> 410.	0.	3.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
671.	261.	3.	1.	74971.	-13.6	575.8	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	1.	-98146.	-17.8	753.8	4.02	10.22	.0215	32.64	.07	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 85 - Travata T2e015 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ<sub>c</sub> (rara)=124.5; σ<sub>c</sub> (quasi permanente)= 93.4; fbd(esesercizio)= 23.8  
 ACCIAIO: σ<sub>f</sub> (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	λ <sub>max</sub>
1	A646	3	3	3	0	410.	370.	10.25	1.3	5.	106.277
2	A677	3	3	3	0	545.	495.	13.625	1.3	1.418	28.867

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-306707.	-.042	.113	-547369.	-.35	2.346	3.	.13	1.785	SI
0.	0.	3.	1.	239168.	-.03	.06	796796.	-.35	1.795	3.	.163	3.332	SI
200.	200.	3.	1.	-21813.	-.003	.008	-547369.	-.35	2.346	3.	.13	25.09	SI
369.	369.	3.	3.	218460.	-.018	.024	1775074.	-.35	1.052	3.	.25	8.125	SI
394.	394.	3.	3.	239840.	-.02	.026	1775074.	-.35	1.052	3.	.25	7.401	SI
410.	410.	3.	3.	-328548.	-.028	.061	-1057775.	-.35	2.055	3.	.146	3.22	SI
410.	410.	3.	3.	239840.	-.02	.026	1775074.	-.35	1.052	3.	.25	7.401	SI
> 410.	0.	3.	3.	-708579.	-.062	.133	-1057775.	-.35	2.055	3.	.146	1.493	SI
410.	0.	3.	3.	139432.	-.012	.015	1775074.	-.35	1.052	3.	.25	12.73	SI
682.	272.	3.	5.	733340.	-.089	.14	1039699.	-.35	1.395	3.	.201	1.418	SI
955.	545.	3.	6.	-809925.	-.079	.123	-1297700.	-.35	1.512	3.	.188	1.602	SI
955.	545.	3.	6.	131218.	-.012	.025	1054435.	-.35	1.899	3.	.156	8.036	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-4019.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6113.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-4194.	4455.	24411.	24577.	1.01	9.	1.75	SI
369.	369.	3.	-5055.	5099.	28335.	14044.	1.01	9.	1.	SI

410.	410.	3.	-5102.!	3948.	28335.!	14044.	1.01	9.	1.	SI
410.	410.	3.	4913.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1510.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	9363.!	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-1787.	5613.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2547.	5613.	24411.	24577.!	1.01	9.	1.75	SI
955.	545.	3.	-10066.!	3948.	28335.!	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-85036.!	-14.7!	653.1!	4.02	10.33	.0187	32.87	.061	SI
15.	15.	3.	1.	3225.	-5	16.8	6.03	9.64	.0005	24.94	.001	SI
16.	16.	3.	1.	-79044.	-13.6	607.	4.02	10.33	.0173	32.87	.057	SI
283.	283.	3.	1.	34095.!	-5.3	177.2	6.03	9.64	.0051	24.94	.013	SI
410.	410.	3.	3.	-70671.	-7.9	276.2	8.04	9.75	.0079	21.79	.017	SI
410.	410.	3.	3.	5893.	-.6	13.5	14.07	8.42	.0004	16.78	.001	SI
> 410.	0.	3.	3.	-491203.	-55.2	1919.9	8.04	9.75	.0727	21.79	.158	SI
682.	272.	3.	5.	517887.!	-73.3!	2043.3!	8.04	9.17	.0795	21.2	.169	SI
955.	545.	3.	6.	-566887.!	-67.4!	1795.3!	10.05	9.05	.0708	19.24	.136	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-47111.	-8.1!	361.8!	4.02	10.33	.0103	32.87	.034	SI
16.	16.	3.	1.	-42683.	-7.4	327.8	4.02	10.33	.0094	32.87	.031	SI
31.	31.	3.	1.	-34927.	-6.	268.2	4.02	10.33	.0077	32.87	.025	SI
200.	200.	3.	1.	34392.!	-5.4	178.7	6.03	9.64	.0051	24.94	.013	SI
410.	410.	3.	3.	-54906.!	-6.2	214.6	8.04	9.75	.0061	21.79	.013	SI
> 410.	0.	3.	3.	-397656.	-44.7	1554.3	8.04	9.75	.0553	21.79	.121	SI
682.	272.	3.	5.	434291.!	-61.5!	1713.5!	8.04	9.17	.0638	21.2	.135	SI
955.	545.	3.	6.	-458866.!	-54.5!	1453.2!	10.05	9.05	.0545	19.24	.105	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-37265.	-6.4!	286.2!	4.02	10.33	.0082	32.87	.027	SI
16.	16.	3.	1.	-33207.	-5.7	255.	4.02	10.33	.0073	32.87	.024	SI
31.	31.	3.	1.	-26101.	-4.5	200.5	4.02	10.33	.0057	32.87	.019	SI
200.	200.	3.	1.	34410.!	-5.4	178.8	6.03	9.64	.0051	24.94	.013	SI
410.	410.	3.	3.	-49699.!	-5.6	194.3	8.04	9.75	.0056	21.79	.012	SI
> 410.	0.	3.	3.	-363464.	-40.9	1420.6	8.04	9.75	.049	21.79	.107	SI
682.	272.	3.	5.	400640.!	-56.7!	1580.7!	8.04	9.17	.0575	21.2	.122	SI
955.	545.	3.	6.	-419565.!	-49.9!	1328.7!	10.05	9.05	.0486	19.24	.094	SI

ARMATURE LONGITUDINALI (%=100\*Af/Ac1s - Ac1s=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
3	22.12	1.843	8.04	.67	2d16 +2d16	14.07	1.173	3d16 +4d16
4	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
5	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16
6	18.1	1.508	10.05	.838	3d16 +2d16	8.04	.67	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 86 - Travata T2e016 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecud=.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercrcizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Ac1s=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A647	3	3	3	0	410.	370.	10.25	1.3	2.722	57.857
2	A678	3	3	3	0	545.	495.	13.625	1.3	1.127	20.924

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	1.	-329573.	-.045	.122	-547369.	-.35	2.346	3.	.13	1.661
0.	0.	3.	1.	292724.	-.037	.073	796796.	-.35	1.795	3.	.163	2.722
200.	200.	3.	1.	36868.	-.004	.009	796796.	-.35	1.795	3.	.163	21.61
369.	369.	3.	3.	219217.	-.015	.019	2276459.	-.35	1.038	3.	.252	10.38
410.	410.	3.	3.	-404604.	-.028	.051	-1564082.	-.35	1.845	3.	.159	3.866
410.	410.	3.	3.	242162.	-.017	.021	2276459.	-.35	1.038	3.	.252	9.401
> 410.	0.	3.	3.	-1317542.	-.094	.166	-1564082.	-.35	1.845	3.	.159	1.187
410.	0.	3.	3.	98142.	-.007	.008	2276459.	-.35	1.038	3.	.252	23.2
682.	272.	3.	5.	1366102.	-.134	.176	1539128.	-.35	1.268	3.	.216	1.127
955.	545.	3.	6.	-1415582.	-.115	.155	-1798471.	-.35	1.382	3.	.202	1.27
955.	545.	3.	6.	93340.	-.007	.012	1558335.	-.35	1.682	3.	.172	16.7

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	1.	-5487.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	1.	6919.	3948.	28335.	14044.	1.01	9.	1.
75.	75.	3.	1.	-5662.	4455.	24411.	24577.	1.01	9.	1.75
369.	369.	3.	1.	-6523.	5099.	28335.	14044.	1.01	9.	1.
410.	410.	3.	3.	-6570.	3948.	28335.	14044.	1.01	9.	1.
410.	410.	3.	3.	5719.	3948.	28335.	14044.	1.01	9.	1.
> 410.	0.	3.	3.	-248.	3948.	28335.	18056.	1.01	7.	1.
410.	0.	3.	3.	15986.	3948.	28335.	18056.	1.01	7.	1.
451.	41.	3.	3.	-751.	6425.	28335.	18056.	1.01	7.	1.
495.	85.	3.	3.	-2125.	6425.	26485.	26182.	1.01	7.	1.45
955.	545.	3.	6.	-15739.	3948.	28335.	15799.	1.01	8.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	-67338.	-11.6	517.1	4.02	10.33	.0148	32.87	.049
15.	15.	3.	1.	-63395.	-10.9	486.9	4.02	10.33	.0139	32.87	.046
15.	15.	3.	1.	17383.	-2.7	90.3	6.03	9.64	.0026	24.94	.006
117.	117.	3.	1.	34229.	-5.3	177.9	6.03	9.64	.0051	24.94	.013
410.	410.	3.	3.	-122228.	-11.2	321.5	12.06	9.26	.0092	18.16	.017
> 410.	0.	3.	3.	-923716.	-84.3	2429.3	12.06	9.26	.1027	18.16	.187
682.	272.	3.	5.	958696.	-107.8	2549.6	12.06	8.72	.1091	17.8	.194
955.	545.	3.	6.	-993686.	-97.5	2265.5	14.07	8.67	.0969	16.92	.164

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	-31703.	-5.5	243.5	4.02	10.33	.007	32.87	.023
15.	15.	3.	1.	489.	-1.	2.5	6.03	9.64	.0001	24.94	0.
16.	16.	3.	1.	-28528.	-4.9	219.1	4.02	10.33	.0063	32.87	.021
158.	158.	3.	1.	34125.	-5.3	177.4	6.03	9.64	.0051	24.94	.013
410.	410.	3.	3.	-96878.	-8.8	254.8	12.06	9.26	.0073	18.16	.013
> 410.	0.	3.	3.	-749315.	-68.4	1970.7	12.06	9.26	.0809	18.16	.147
682.	272.	3.	5.	792328.	-89.1	2107.2	12.06	8.72	.088	17.8	.157
955.	545.	3.	6.	-805597.	-79.	1836.7	14.07	8.67	.0765	16.92	.129

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	-29817.	-5.1	229.	4.02	10.33	.0065	32.87	.022
16.	16.	3.	1.	-24162.	-4.2	185.6	4.02	10.33	.0053	32.87	.017
31.	31.	3.	1.	-18881.	-3.3	145.	4.02	10.33	.0041	32.87	.014
200.	200.	3.	1.	34541.	-5.4	179.5	6.03	9.64	.0051	24.94	.013

410.	410.	3.	3.	-87082.!	-7.9!	229.!	12.06!	9.26!	.0065!	18.16!	.012!	SI
> 410.	0.	3.	3.	-682903.!	-62.3!	1796.!	12.06!	9.26!	.0726!	18.16!	.132!	SI
682.	272.	3.	5.	725295.!	-81.5!	1928.9!	12.06!	8.72!	.0795!	17.8!	.141!	SI
955.	545.	3.	6.	-734989.!	-72.1!	1675.7!	14.07!	8.67!	.0688!	16.92!	.116!	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	18.1	1.508	12.06	1.005	2d16 +4d16	6.03	.503	3d16
3	30.16	2.513	12.06	1.005	2d16 +4d16	18.1	1.508	3d16 +6d16
4	24.13	2.011	12.06	1.005	2d16 +4d16	12.06	1.005	6d16
5	20.11	1.676	8.04	.67	4d16	12.06	1.005	6d16
6	26.14	2.178	14.07	1.173	3d16 +4d16	12.06	1.005	6d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 87 - Travata T2e017 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A649	3	3	3	0	400.	350.	10.	1.3	2.233	45.476
2	A680	3	3	3	0	545.	495.	13.625	1.3	2.616	53.26

CASI DI CARICO DA MODELLO 3D

SLU				RARE				FREQUENTI				QUASI PERMANENTI			
Nome	Descrizione	Sest		Nome	Descrizione	Sest		Nome	Descrizione	Sest		Nome	Descrizione	Sest	
1.	SLU	1.		15.	Rara	1.		21.	Quasi Perm	1.					
2.	SLU VENTOX	2.		16.	Rara VentoX	2.		19.	Frequente VentoX	2.					
3.	SLU VENTOY	2.		17.	Rara VentoY	2.		20.	Frequente VentoY	2.					
6.	SLU con SISMAX PRINC16														
7.	SLU con SISMAX PRINC16														

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-637880.!	-.078!	.159!	-799812.	-.35	1.963	3.	.151	1.254!	SI
0.	0.	3.	1.	331887.	-.039	.083	799812.	-.35	1.963	3.	.151	2.41	SI
63.	63.	3.	1.	358103.!	-.042	.089	799812.	-.35	1.963	3.	.151	2.233	SI
238.	238.	3.	1.	-23755.	-.003	.006	-799812.	-.35	1.963	3.	.151	33.67!	SI
315.	315.	3.	2.	-331196.	-.031	.042	-1524545.	-.35	1.062	3.	.248!	4.603	SI
315.	315.	3.	2.	327869.	-.032	.081	803492.	-.35	2.207	3.	.137!	2.451	SI
359.	359.	3.	3.	326089.	-.026	.041	1554050.!	-.35	1.573	3.	.182!	4.766	SI
400.	400.	3.	3.	-629109.	-.051	.08	-1554050.!	-.35	1.573	3.	.182!	2.47	SI
400.	400.	3.	3.	298704.	-.024	.038	1554050.!	-.35	1.573	3.	.182!	5.203	SI
> 400.	0.	3.	3.	-520721.	-.042	.066	-1554050.!	-.35	1.573	3.	.182!	2.984	SI
400.	0.	3.	3.	182202.	-.014	.023	1554050.!	-.35	1.573	3.	.182!	8.529	SI
441.	41.	3.	2.	-475053.	-.045	.061	-1524545.	-.35	1.062	3.	.248!	3.209	SI
441.	41.	3.	2.	226565.	-.022	.056	803492.	-.35	2.207	3.	.137!	3.546	SI
719.	319.	3.	1.	-6862.	-.001	.002	-799812.	-.35	1.963	3.	.151!	116.6!	SI
813.	413.	3.	1.	305761.!	-.036	.076	799812.	-.35	1.963	3.	.151!	2.616	SI
945.	545.	3.	1.	-579144.!	-.07!	.145!	-799812.	-.35	1.963	3.	.151!	1.381!	SI
945.	545.	3.	1.	219603.	-.026	.055	799812.	-.35	1.963	3.	.151!	3.642	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-3835.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	9693.	3948.	28335.	14044.	1.01	9.	1.
63.	63.	3.	-4531.	5099.	28335.	14044.	1.01	9.	1.
85.	85.	3.	-4932.	5099.	24411.	24577.	1.01	9.	1.75
400.	400.	3.	-10234.	3948.	28335.	14044.	1.01	9.	1.
400.	400.	3.	2380.	3948.	28335.	14044.	1.01	9.	1.
> 400.	0.	3.	-1900.	3948.	28335.	14044.	1.01	9.	1.
400.	0.	3.	7654.	3948.	28335.	14044.	1.01	9.	1.
441.	41.	3.	-2048.	5099.	28335.	14044.	1.01	9.	1.
485.	85.	3.	-2450.	5099.	24411.	24577.	1.01	9.	1.75
945.	545.	3.	-6440.	3948.	28335.	14044.	1.01	9.	1.
945.	545.	3.	2656.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	-263387.	-39.	1366.5	6.03	9.76	.0411	25.11	.103
16.	16.	3.	1.	-242728.	-36.	1259.3	6.03	9.76	.036	25.11	.09
41.	41.	3.	1.	-149059.	-22.1	773.3	6.03	9.76	.0221	25.11	.055
200.	200.	3.	1.	250061.	-37.1	1297.3	6.03	9.76	.0378	25.11	.095
400.	400.	3.	3.	-259650.	-26.7	686.6	12.06	8.95	.0201	17.96	.036
> 400.	0.	3.	3.	-238542.	-24.5	630.7	12.06	8.95	.018	17.96	.032
672.	272.	3.	1.	213069.	-31.6	1105.4	6.03	9.76	.0316	25.11	.079
945.	545.	3.	1.	-246388.	-36.5	1278.3	6.03	9.76	.0369	25.11	.093

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	1.	-186583.	-27.7	968.	6.03	9.76	.0277	25.11	.069
41.	41.	3.	1.	-107382.	-15.9	557.1	6.03	9.76	.0159	25.11	.04
200.	200.	3.	1.	222218.	-32.9	1152.9	6.03	9.76	.0329	25.11	.083
400.	400.	3.	3.	-214038.	-22.	566.	12.06	8.95	.0162	17.96	.029
> 400.	0.	3.	3.	-215644.	-22.1	570.2	12.06	8.95	.0163	17.96	.029
672.	272.	3.	1.	212575.	-31.5	1102.8	6.03	9.76	.0315	25.11	.079
945.	545.	3.	1.	-225658.	-33.4	1170.7	6.03	9.76	.0334	25.11	.084

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	1.	-169743.	-25.2	880.6	6.03	9.76	.0252	25.11	.063
41.	41.	3.	1.	-95618.	-14.2	496.1	6.03	9.76	.0142	25.11	.036
200.	200.	3.	1.	210136.	-31.1	1090.2	6.03	9.76	.0311	25.11	.078
400.	400.	3.	3.	-198144.	-20.3	523.9	12.06	8.95	.015	17.96	.027
> 400.	0.	3.	3.	-209714.	-21.5	554.5	12.06	8.95	.0158	17.96	.028
672.	272.	3.	1.	212443.	-31.5	1102.2	6.03	9.76	.0315	25.11	.079
945.	545.	3.	1.	-220706.	-32.7	1145.	6.03	9.76	.0327	25.11	.082

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%
1	12.06	1.005	6.03	.503	3d16	6.03	.503
2	18.1	1.508	12.06	1.005	3d16 +3d16	6.03	.503
3	24.13	2.011	12.06	1.005	3d16 +3d16	12.06	1.005

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 88 - Travata T2e018 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE



ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8

ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15

FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A648	3	3	3	0	410.	370.	10.25	1.3	3.03	61.698
2	A679	3	3	3	0	545.	495.	13.625	1.3	1.429	28.182

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-478489.	-.057	.119	-799812.	-.35	1.963	3.	.151	1.672	SI
0.	0.	3.	1.	257058.	-.03	.064	799812.	-.35	1.963	3.	.151	3.111	SI
53.	53.	3.	1.	263948.	-.031	.066	799812.	-.35	1.963	3.	.151	3.03	SI
158.	158.	3.	1.	-31398.	-.004	.008	-799812.	-.35	1.963	3.	.151	25.47	SI
325.	325.	3.	2.	-310980.	-.029	.04	-1524545.	-.35	1.062	3.	.248	4.902	SI
325.	325.	3.	2.	259347.	-.026	.064	803492.	-.35	2.207	3.	.137	3.098	SI
369.	369.	3.	3.	259975.	-.02	.028	1798471.	-.35	1.382	3.	.202	6.918	SI
410.	410.	3.	3.	-536799.	-.041	.068	-1558335.	-.35	1.682	3.	.172	2.903	SI
410.	410.	3.	3.	247752.	-.019	.027	1798471.	-.35	1.382	3.	.202	7.259	SI
> 410.	0.	3.	3.	-747282.	-.057	.094	-1558335.	-.35	1.682	3.	.172	2.085	SI
410.	0.	3.	3.	210012.	-.016	.023	1798471.	-.35	1.382	3.	.202	8.564	SI
451.	41.	3.	4.	-661573.	-.06	.085	-1539128.	-.35	1.268	3.	.216	2.326	SI
682.	272.	3.	5.	732917.	-.082	.139	1047321.	-.35	1.62	3.	.178	1.429	SI
776.	366.	3.	5.	-28627.	-.003	.007	-801560.	-.35	2.074	3.	.144	28.	SI
955.	545.	3.	6.	-810199.	-.079	.124	-1297700.	-.35	1.512	3.	.188	1.602	SI
955.	545.	3.	6.	197676.	-.019	.037	1054435.	-.35	1.899	3.	.156	5.334	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	3948.	28335.	14044.	1.01	9.	1.	SI	
0.	0.	3.	8846.	28335.	14044.	1.01	9.	1.	SI	
75.	75.	3.	-4391.	5099.	28335.	1.01	9.	1.	SI	
75.	75.	3.	-4391.	5099.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-8287.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	3693.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1532.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	10451.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-1810.	5613.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2569.	5613.	24411.	24577.	1.01	9.	1.75	SI
955.	545.	3.	-10088.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	545.	3.	1030.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-195842.	-29.	1016.	6.03	9.76	.029	25.11	.073	SI
16.	16.	3.	1.	-171476.	-25.4	889.6	6.03	9.76	.0254	25.11	.064	SI
31.	31.	3.	1.	-128805.	-19.1	668.2	6.03	9.76	.0191	25.11	.048	SI
200.	200.	3.	1.	185977.	-27.6	964.8	6.03	9.76	.0276	25.11	.069	SI
410.	410.	3.	1.	-232607.	-22.9	613.7	12.06	9.06	.0175	18.03	.032	SI



> 410.	0.	3.	3.	-513536.	-50.6	1355.	12.06	9.06	.0518	18.03	.093	SI
682.	272.	3.	5.	517619.!	-69.5	2036.2!	8.04	9.3	.079	21.34	.169	SI
955.	545.	3.	6.	-560185.!	-66.6	1774.1	10.05	9.05	.0698	19.24	.134	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-120331.	-17.8	624.3	6.03	9.76	.0178	25.11	.045	SI
31.	31.	3.	1.	-86240.	-12.8	447.4	6.03	9.76	.0128	25.11	.032	SI
200.	200.	3.	1.	158112.!	-23.4	820.3!	6.03	9.76	.0234	25.11	.059	SI
410.	410.	3.	3.	-179931.!	-17.7	474.7	12.06	9.06	.0136	18.03	.024	SI
> 410.	0.	3.	3.	-412093.!	-40.6	1087.3!	12.06	9.06	.0391	18.03	.07	SI
682.	272.	3.	5.	434092.!	-58.3	1707.6!	8.04	9.3	.0633	21.34	.135	SI
955.	545.	3.	6.	-459174.!	-54.6	1454.2	10.05	9.05	.0546	19.24	.105	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-105539.	-15.6	547.5	6.03	9.76	.0156	25.11	.039	SI
31.	31.	3.	1.	-74385.	-11.	385.9	6.03	9.76	.011	25.11	.028	SI
200.	200.	3.	1.	146596.!	-21.7	760.5!	6.03	9.76	.0217	25.11	.055	SI
410.	410.	3.	3.	-160112.!	-15.8	422.5	12.06	9.06	.0121	18.03	.022	SI
> 410.	0.	3.	3.	-374752.!	-36.9	988.8!	12.06	9.06	.0344	18.03	.062	SI
682.	272.	3.	5.	400373.!	-53.7	1575.!	8.04	9.3	.057	21.34	.122	SI
955.	545.	3.	6.	-422653.!	-50.2	1338.5	10.05	9.05	.0491	19.24	.094	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	12.06	1.005	6.03	.503	3d16	6.03	.503	3d16
2	18.1	1.508	12.06	1.005	3d16 +3d16	6.03	.503	3d16
3	26.14	2.178	12.06	1.005	3d16 +3d16	14.07	1.173	3d16 +4d16
4	20.11	1.676	12.06	1.005	3d16 +3d16	8.04	.67	4d16
5	14.07	1.173	6.03	.503	3d16	8.04	.67	4d16
6	18.1	1.508	10.05	.838	2d16 +3d16	8.04	.67	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 158 - Travata T2e020 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	lam.max
1	A696	3	3	3	0	335.	295.	8.375	1.3	1.888	42.654
2	A701	3	3	3	0	360.	320.	9.003	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	6.
7.	SLU con SISMAX PRINC16	6.

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-230094.	-.033	.085	-546809.	-.35	2.278	3.	.133	2.376	SI
0.	0.	3. 1.	150433.	-.022	.055	546809.	-.35	2.278	3.	.133	3.635	SI
162.	162.	3. 1.	289687.	-.042	.107	546809.	-.35	2.278	3.	.133	1.888	SI
248.	248.	3. 2.	-130624.	-.015	.025	-1039699.	-.35	1.395	3.	.201	7.959	SI
248.	248.	3. 2.	214961.	-.027	.079	547697.	-.35	2.388	3.	.128	2.548	SI
309.	309.	3. 3.	126397.	-.012	.024	1051660.	-.35	1.781	3.	.164	8.32	SI
335.	335.	3. 3.	-417059.	-.042	.079	-1051660.	-.35	1.781	3.	.164	2.522	SI
335.	335.	3. 3.	60242.	-.006	.011	1051660.	-.35	1.781	3.	.164	17.46	SI
> 335.	0.	3. 3.	-162969.	-.016	.031	-1051660.	-.35	1.781	3.	.164	6.453	SI
335.	0.	3. 3.	106727.	-.011	.02	1051660.	-.35	1.781	3.	.164	9.854	SI
398.	63.	3. 2.	-122731.	-.014	.023	-1039699.	-.35	1.395	3.	.201	8.471	SI
398.	63.	3. 2.	89212.	-.011	.033	547697.	-.35	2.388	3.	.128	6.139	SI
500.	165.	3. 1.	-24804.	-.003	.009	-546809.	-.35	2.278	3.	.133	22.05	SI
695.	360.	3. 1.	-174232.	-.025	.064	-546809.	-.35	2.278	3.	.133	3.138	SI
695.	360.	3. 1.	88327.	-.013	.033	546809.	-.35	2.278	3.	.133	6.191	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3. 1.	-1906.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3. 1.	7978.	3948.	28335.	14044.	1.01	9.	1.	SI
77.	77.	3. 1.	-3063.	4455.	24411.	24577.	1.01	9.	1.75	SI
335.	335.	3. 1.	-8116.	3948.	28335.	14044.	1.01	9.	1.	SI
335.	335.	3. 1.	892.	3948.	28335.	14044.	1.01	9.	1.	SI
> 335.	0.	3. 3.	-4107.	3948.	28335.	14044.	1.01	9.	1.	SI
335.	0.	3. 3.	5182.	3948.	28335.	14044.	1.01	9.	1.	SI
376.	41.	3. 1.	-4154.	4455.	28335.	14044.	1.01	9.	1.	SI
420.	85.	3. 1.	-4282.	4455.	24411.	24577.	1.01	9.	1.75	SI
695.	360.	3. 1.	-5041.	3948.	28335.	14044.	1.01	9.	1.	SI
695.	360.	3. 1.	4132.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-131237.	-23.8	1008.	4.02	10.22	.0288	32.64	.094	SI
162.	162.	3. 1.	208005.	-37.7	1597.6	4.02	10.22	.0456	32.64	.149	SI
335.	335.	3. 3.	-291838.	-37.3	1145.4	8.04	9.43	.0364	21.47	.078	SI
> 335.	0.	3. 3.	-41892.	-5.4	164.4	8.04	9.43	.0047	21.47	.01	SI
335.	0.	3. 3.	3863.	-5	15.2	8.04	9.43	.0004	21.47	.001	SI
460.	125.	3. 1.	25991.	-4.7	199.6	4.02	10.22	.0057	32.64	.019	SI
695.	360.	3. 1.	-74757.	-13.6	574.2	4.02	10.22	.0164	32.64	.054	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-111958.	-20.3	859.9	4.02	10.22	.0246	32.64	.08	SI
162.	162.	3. 1.	176288.	-32.	1354.	4.02	10.22	.0387	32.64	.126	SI
335.	335.	3. 3.	-238616.	-30.5	936.5	8.04	9.43	.0268	21.47	.057	SI
> 335.	0.	3. 3.	-30460.	-3.9	119.5	8.04	9.43	.0034	21.47	.007	SI
500.	165.	3. 1.	25766.	-4.7	197.9	4.02	10.22	.0057	32.64	.018	SI
695.	360.	3. 1.	-51376.	-9.3	394.6	4.02	10.22	.0113	32.64	.037	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-109701.	-19.9	842.6	4.02	10.22	.0241	32.64	.079	SI
162.	162.	3. 1.	174103.	-31.6	1337.3	4.02	10.22	.0382	32.64	.125	SI
335.	335.	3. 3.	-226180.	-28.9	887.7	8.04	9.43	.0254	21.47	.054	SI
> 335.	0.	3. 3.	-30370.	-3.9	119.2	8.04	9.43	.0034	21.47	.007	SI
500.	165.	3. 1.	25670.	-4.7	197.2	4.02	10.22	.0056	32.64	.018	SI
695.	360.	3. 1.	-44049.	-8.	338.3	4.02	10.22	.0097	32.64	.032	SI

ARMATURE LONGITUDINALI (%=100\*Af/Ac1s - Ac1s=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 89 - Travata Tc001 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
ACCIAIO:  $\sigma_f$  (rara)=3600. ; Coeff.Omogein.= 15  
FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A738	3	3	3	0	435.	405.	10.875	1.3	5.	112.985
2	A739	3	3	3	0	435.	405.	10.875	1.5	5.	130.367
3	A740	3	3	3	0	500.	460.	12.5	1.5	4.549	118.607
4	A741	3	3	3	0	380.	330.	9.5	1.5	4.169	108.7
5	A742	3	3	3	0	415.	365.	10.375	1.5	1.91	49.809
6	A743	3	3	3	0	435.	385.	10.875	1.5	2.163	56.401
7	A744	3	3	3	0	455.	405.	11.375	1.5	2.548	66.436
8	A745	3	3	3	0	435.	385.	10.875	1.5	2.177	56.757
9	A746	3	3	3	0	435.	385.	10.875	1.5	2.158	56.261
10	A747	3	3	3	0	295.	255.	7.375	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE		
> 0.	0.	3.	1.	-141794.	-.02	.052	!	-546809.	-.35	2.278	3.	.133	3.856	SI
0.	0.	3.	1.	78625.	-.011	.029	!	546809.	-.35	2.278	3.	.133	6.955	SI
116.	116.	3.	1.	103671.	-.015	.038	!	546809.	-.35	2.278	3.	.133	5.274	SI
319.	319.	3.	2.	-37058.	-.004	.007	!	-1039699.	-.35	1.395	3.	.201	28.06	SI
319.	319.	3.	2.	59790.	-.008	.022	!	547697.	-.35	2.388	3.	.128	9.16	SI
419.	419.	3.	3.	16335.	-.002	.003	!	1051660.	-.35	1.781	3.	.164	64.38	SI
435.	435.	3.	3.	-172605.	-.017	.032	!	-1051660.	-.35	1.781	3.	.164	6.093	SI
435.	435.	3.	3.	4930.	0.	.001	!	1051660.	-.35	1.781	3.	.164	213.3	SI
> 435.	0.	3.	3.	-131690.	-.013	.025	!	-1051660.	-.35	1.781	3.	.164	7.986	SI
435.	0.	3.	3.	31944.	-.003	.006	!	1051660.	-.35	1.781	3.	.164	32.92	SI
488.	53.	3.	2.	-98126.	-.011	.019	!	-1039699.	-.35	1.395	3.	.201	10.6	SI
488.	53.	3.	2.	47211.	-.006	.017	!	547697.	-.35	2.388	3.	.128	11.6	SI
632.	197.	3.	1.	-162.	0.	0.	!	-546809.	-.35	2.278	3.	.133	3371.	SI
714.	279.	3.	1.	66842.	-.009	.025	!	546809.	-.35	2.278	3.	.133	8.181	SI
839.	404.	3.	2.	-165596.	-.019	.031	!	-1039699.	-.35	1.395	3.	.201	6.279	SI
870.	435.	3.	3.	-174729.	-.017	.033	!	-1051660.	-.35	1.781	3.	.164	6.019	SI
870.	435.	3.	3.	35779.	-.004	.007	!	1051660.	-.35	1.781	3.	.164	29.39	SI
> 870.	0.	3.	3.	-170314.	-.017	.032	!	-1051660.	-.35	1.781	3.	.164	6.175	SI
901.	31.	3.	2.	-158622.	-.018	.03	!	-1039699.	-.35	1.395	3.	.201	6.555	SI
901.	31.	3.	2.	15470.	-.002	.006	!	547697.	-.35	2.388	3.	.128	35.41	SI
1115.	245.	3.	1.	120206.	-.017	.044	!	546809.	-.35	2.278	3.	.133	4.549	SI
1200.	330.	3.	1.	-409.	0.	0.	!	-546809.	-.35	2.278	3.	.133	1336.	SI
1370.	500.	3.	3.	-158139.	-.016	.03	!	-1051660.	-.35	1.781	3.	.164	6.65	SI
>1370.	0.	3.	3.	-354630.	-.036	.067	!	-1051660.	-.35	1.781	3.	.164	2.966	SI
1370.	0.	3.	3.	144037.	-.014	.027	!	1051660.	-.35	1.781	3.	.164	7.301	SI
1411.	41.	3.	2.	-326237.	-.037	.062	!	-1039699.	-.35	1.395	3.	.201	3.187	SI
1411.	41.	3.	2.	132692.	-.017	.049	!	547697.	-.35	2.388	3.	.128	4.128	SI
1581.	211.	3.	1.	-41105.	-.006	.015	!	-546809.	-.35	2.278	3.	.133	13.3	SI
1709.	339.	3.	2.	225552.	-.029	.083	!	547697.	-.35	2.388	3.	.128	2.428	SI
1734.	364.	3.	3.	252258.	-.025	.047	!	1051660.	-.35	1.781	3.	.164	4.169	SI
1750.	380.	3.	3.	-237209.	-.024	.045	!	-1051660.	-.35	1.781	3.	.164	4.433	SI
1750.	380.	3.	3.	252258.	-.025	.047	!	1051660.	-.35	1.781	3.	.164	4.169	SI
>1750.	0.	3.	3.	-291272.	-.029	.055	!	-1051660.	-.35	1.781	3.	.164	3.611	SI
1750.	0.	3.	3.	8581.	-.001	.002	!	1051660.	-.35	1.781	3.	.164	122.6	SI
1791.	41.	3.	2.	-244437.	-.028	.046	!	-1039699.	-.35	1.395	3.	.201	4.253	SI

1791.	41.	3.	2.	99215.	-.013	.036	547697.	-.35	2.388	3.	.128	5.52	SI
1958.	208.	3.	1.	286235.	-.042	.106	546809.	-.35	2.278	3.	.133	1.91	SI
2165.	415.	3.	3.	-324089.	-.032	.061	-1051660.	-.35	1.781	3.	.164	3.245	SI
2165.	415.	3.	3.	10370.	-.001	.002	1051660.	-.35	1.781	3.	.164	101.4	SI
>2165.	0.	3.	3.	-340172.	-.034	.064	-1051660.	-.35	1.781	3.	.164	3.092	SI
2165.	0.	3.	3.	50595.	-.005	.009	1051660.	-.35	1.781	3.	.164	20.79	SI
2206.	41.	3.	2.	-298946.	-.034	.057	-1039699.	-.35	1.395	3.	.201	3.478	SI
2206.	41.	3.	2.	122646.	-.015	.045	547697.	-.35	2.388	3.	.128	4.466	SI
2382.	218.	3.	1.	252782.	-.037	.093	546809.	-.35	2.278	3.	.133	2.163	SI
2600.	435.	3.	3.	-300492.	-.03	.057	-1051660.	-.35	1.781	3.	.164	3.5	SI
2600.	435.	3.	3.	67571.	-.007	.013	1051660.	-.35	1.781	3.	.164	15.56	SI
>2600.	0.	3.	3.	-309183.	-.031	.058	-1051660.	-.35	1.781	3.	.164	3.401	SI
2600.	0.	3.	3.	73870.	-.007	.014	1051660.	-.35	1.781	3.	.164	14.24	SI
2641.	41.	3.	2.	-274261.	-.031	.052	-1039699.	-.35	1.395	3.	.201	3.791	SI
2641.	41.	3.	2.	129235.	-.016	.048	547697.	-.35	2.388	3.	.128	4.238	SI
2766.	166.	3.	1.	-1415.	0.	.001	-546809.	-.35	2.278	3.	.133	386.4	SI
2848.	248.	3.	1.	214601.	-.031	.079	546809.	-.35	2.278	3.	.133	2.548	SI
3055.	455.	3.	3.	-297327.	-.03	.056	-1051660.	-.35	1.781	3.	.164	3.537	SI
3055.	455.	3.	3.	80609.	-.008	.015	1051660.	-.35	1.781	3.	.164	13.05	SI
>3055.	0.	3.	3.	-313836.	-.031	.059	-1051660.	-.35	1.781	3.	.164	3.351	SI
3055.	0.	3.	3.	50700.	-.005	.01	1051660.	-.35	1.781	3.	.164	20.74	SI
3096.	41.	3.	2.	-273994.	-.031	.052	-1039699.	-.35	1.395	3.	.201	3.795	SI
3096.	41.	3.	2.	121678.	-.015	.045	547697.	-.35	2.388	3.	.128	4.501	SI
3272.	218.	3.	1.	251198.	-.036	.093	546809.	-.35	2.278	3.	.133	2.177	SI
3490.	435.	3.	3.	-314633.	-.031	.059	-1051660.	-.35	1.781	3.	.164	3.342	SI
3490.	435.	3.	3.	52406.	-.005	.01	1051660.	-.35	1.781	3.	.164	20.07	SI
>3490.	0.	3.	3.	-322992.	-.032	.061	-1051660.	-.35	1.781	3.	.164	3.256	SI
3490.	0.	3.	3.	30549.	-.003	.006	1051660.	-.35	1.781	3.	.164	34.43	SI
3531.	41.	3.	2.	-282044.	-.032	.053	-1039699.	-.35	1.395	3.	.201	3.686	SI
3531.	41.	3.	2.	104891.	-.013	.039	547697.	-.35	2.388	3.	.128	5.222	SI
3708.	218.	3.	1.	253414.	-.037	.094	546809.	-.35	2.278	3.	.133	2.158	SI
3925.	435.	3.	3.	-281026.	-.028	.053	-1051660.	-.35	1.781	3.	.164	3.742	SI
3925.	435.	3.	3.	58853.	-.006	.011	1051660.	-.35	1.781	3.	.164	17.87	SI
>3925.	0.	3.	3.	-191934.	-.019	.036	-1051660.	-.35	1.781	3.	.164	5.479	SI
3925.	0.	3.	3.	69300.	-.007	.013	1051660.	-.35	1.781	3.	.164	15.18	SI
3966.	41.	3.	2.	-168209.	-.019	.032	-1039699.	-.35	1.395	3.	.201	6.181	SI
3966.	41.	3.	2.	69462.	-.009	.026	547697.	-.35	2.388	3.	.128	7.885	SI
4078.	152.	3.	1.	-5351.	-.001	.002	-546809.	-.35	2.278	3.	.133	102.2	SI
4204.	279.	3.	1.	108574.	-.015	.04	546809.	-.35	2.278	3.	.133	5.036	SI
4220.	295.	3.	1.	-149471.	-.021	.055	-546809.	-.35	2.278	3.	.133	3.658	SI
4220.	295.	3.	1.	108574.	-.015	.04	546809.	-.35	2.278	3.	.133	5.036	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2802.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	4602.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3110.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3110.	4455.	24411.	24577.	1.01	9.	1.75	SI
435.	435.	3.	-4880.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	435.	3.	2370.	3948.	28335.	14044.	1.01	9.	1.	SI
> 435.	0.	3.	-4247.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	0.	3.	5721.	3948.	28335.	14044.	1.01	9.	1.	SI
488.	53.	3.	-4416.	4455.	28335.	14044.	1.01	9.	1.	SI
510.	75.	3.	-4515.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	435.	3.	-6056.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	435.	3.	3777.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	-3003.	5613.	28335.	14044.	1.01	9.	1.	SI
870.	0.	3.	5347.	5613.	28335.	14044.	1.01	9.	1.	SI
945.	75.	3.	-3314.	4455.	24411.	24577.	1.01	9.	1.75	SI
1370.	500.	3.	-5387.	5613.	28335.	14044.	1.01	9.	1.	SI
1370.	500.	3.	2963.	5613.	28335.	14044.	1.01	9.	1.	SI
>1370.	0.	3.	-4698.	3948.	28335.	14044.	1.01	9.	1.	SI
1370.	0.	3.	6393.	3948.	28335.	14044.	1.01	9.	1.	SI
1411.	41.	3.	-4765.	4455.	28335.	14044.	1.01	9.	1.	SI
1455.	85.	3.	-4948.	4455.	24411.	24577.	1.01	9.	1.75	SI
1750.	380.	3.	-6074.	3948.	28335.	14044.	1.01	9.	1.	SI
1750.	380.	3.	4809.	3948.	28335.	14044.	1.01	9.	1.	SI
>1750.	0.	3.	-2270.	3948.	28335.	14044.	1.01	9.	1.	SI
1750.	0.	3.	8160.	3948.	28335.	14044.	1.01	9.	1.	SI
1791.	41.	3.	-2508.	4455.	28335.	14044.	1.01	9.	1.	SI
1835.	85.	3.	-3157.	4455.	24411.	24577.	1.01	9.	1.75	SI
2165.	415.	3.	-7669.	3948.	28335.	14044.	1.01	9.	1.	SI
2165.	415.	3.	2022.	3948.	28335.	14044.	1.01	9.	1.	SI
>2165.	0.	3.	-2314.	3948.	28335.	14044.	1.01	9.	1.	SI
2165.	0.	3.	7726.	3948.	28335.	14044.	1.01	9.	1.	SI
2206.	41.	3.	-2526.	4455.	28335.	14044.	1.01	9.	1.	SI
2250.	85.	3.	-3106.	4455.	24411.	24577.	1.01	9.	1.75	SI
2600.	435.	3.	-7396.	3948.	28335.	14044.	1.01	9.	1.	SI
2600.	435.	3.	1984.	3948.	28335.	14044.	1.01	9.	1.	SI
>2600.	0.	3.	-2259.	3948.	28335.	14044.	1.01	9.	1.	SI
2600.	0.	3.	7318.	3948.	28335.	14044.	1.01	9.	1.	SI
2641.	41.	3.	-2447.	4455.	28335.	14044.	1.01	9.	1.	SI
2685.	85.	3.	-2964.	4455.	24411.	24577.	1.01	9.	1.75	SI
3055.	455.	3.	-7017.	3948.	28335.	14044.	1.01	9.	1.	SI
3055.	455.	3.	1972.	3948.	28335.	14044.	1.01	9.	1.	SI

>3055.	0.	3.	-2314.	3948.	28335.	14044.	1.01	9.	1.	SI
3055.	0.	3.	7726.	3948.	28335.	14044.	1.01	9.	1.	SI
3096.	41.	3.	-2526.	4455.	28335.	14044.	1.01	9.	1.	SI
3140.	85.	3.	-3106.	4455.	24411.	24577.	1.01	9.	1.75	SI
3490.	435.	3.	-7396.	3948.	28335.	14044.	1.01	9.	1.	SI
3490.	435.	3.	1984.	3948.	28335.	14044.	1.01	9.	1.	SI
>3490.	0.	3.	-2321.	3948.	28335.	14044.	1.01	9.	1.	SI
3490.	0.	3.	8022.	3948.	28335.	14044.	1.01	9.	1.	SI
3531.	41.	3.	-2533.	4455.	28335.	14044.	1.01	9.	1.	SI
3575.	85.	3.	-3113.	4455.	24411.	24577.	1.01	9.	1.75	SI
3925.	435.	3.	-7403.	3948.	28335.	14044.	1.01	9.	1.	SI
3925.	435.	3.	2280.	3948.	28335.	14044.	1.01	9.	1.	SI
>3925.	0.	3.	-4480.	3948.	28335.	14044.	1.01	9.	1.	SI
3925.	0.	3.	6461.	3948.	28335.	14044.	1.01	9.	1.	SI
3966.	41.	3.	-4567.	4455.	28335.	14044.	1.01	9.	1.	SI
4010.	85.	3.	-4807.	4455.	24411.	24577.	1.01	9.	1.75	SI
4220.	295.	3.	-5870.	3948.	28335.	14044.	1.01	9.	1.	SI
4220.	295.	3.	4853.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-48733.	-8.8	374.3	4.02	10.22	.0107	32.64	.035	SI
31.	31.	3.	1.	-33078.	-6.	254.1	4.02	10.22	.0073	32.64	.024	SI
197.	197.	3.	1.	72241.	-13.1	554.9	4.02	10.22	.0159	32.64	.052	SI
435.	435.	3.	3.	-85916.	-11.	337.2	8.04	9.43	.0096	21.47	.021	SI
> 435.	0.	3.	3.	-50428.	-6.4	197.9	8.04	9.43	.0057	21.47	.012	SI
632.	197.	3.	1.	48154.	-8.7	369.9	4.02	10.22	.0106	32.64	.034	SI
870.	435.	3.	3.	-77457.	-9.9	304.	8.04	9.43	.0087	21.47	.019	SI
> 870.	0.	3.	3.	-122225.	-15.6	479.7	8.04	9.43	.0137	21.47	.029	SI
1115.	245.	3.	1.	87770.	-15.9	674.1	4.02	10.22	.0193	32.64	.063	SI
1370.	500.	3.	3.	-114744.	-14.7	450.3	8.04	9.43	.0129	21.47	.028	SI
>1370.	0.	3.	3.	-126283.	-16.1	495.6	8.04	9.43	.0142	21.47	.03	SI
1497.	127.	3.	1.	-43417.	-7.9	333.5	4.02	10.22	.0095	32.64	.031	SI
1665.	295.	3.	2.	32020.	-5.3	245.9	4.02	10.43	.007	33.07	.023	SI
1750.	380.	3.	3.	-31768.	-4.1	124.7	8.04	9.43	.0036	21.47	.008	SI
1750.	380.	3.	3.	13456.	-1.7	52.8	8.04	9.43	.0015	21.47	.003	SI
>1750.	0.	3.	3.	-200107.	-25.6	785.4	8.04	9.43	.0224	21.47	.048	SI
1958.	208.	3.	1.	205643.	-37.3	1579.5	4.02	10.22	.0451	32.64	.147	SI
2165.	415.	3.	3.	-223051.	-28.5	875.4	8.04	9.43	.025	21.47	.054	SI
>2165.	0.	3.	3.	-226899.	-29.	890.5	8.04	9.43	.0254	21.47	.055	SI
2382.	218.	3.	1.	181584.	-32.9	1394.7	4.02	10.22	.0398	32.64	.13	SI
2600.	435.	3.	3.	-183511.	-23.5	720.2	8.04	9.43	.0206	21.47	.044	SI
>2600.	0.	3.	3.	-188762.	-24.1	740.8	8.04	9.43	.0212	21.47	.045	SI
2848.	248.	3.	1.	154126.	-27.9	1183.8	4.02	10.22	.0338	32.64	.11	SI
3055.	455.	3.	3.	-173162.	-22.1	679.6	8.04	9.43	.0194	21.47	.042	SI
>3055.	0.	3.	3.	-204765.	-26.2	803.6	8.04	9.43	.023	21.47	.049	SI
3272.	218.	3.	1.	180411.	-32.7	1385.7	4.02	10.22	.0396	32.64	.129	SI
3490.	435.	3.	3.	-203132.	-26.	797.2	8.04	9.43	.0228	21.47	.049	SI
>3490.	0.	3.	3.	-218042.	-27.9	855.8	8.04	9.43	.0245	21.47	.052	SI
3708.	218.	3.	1.	182003.	-33.	1397.9	4.02	10.22	.0399	32.64	.13	SI
3925.	435.	3.	3.	-168982.	-21.6	663.2	8.04	9.43	.0189	21.47	.041	SI
>3925.	0.	3.	3.	-66102.	-8.4	259.4	8.04	9.43	.0074	21.47	.016	SI
4078.	152.	3.	1.	38546.	-7.	296.1	4.02	10.22	.0085	32.64	.028	SI
4220.	295.	3.	1.	-33382.	-6.1	256.4	4.02	10.22	.0073	32.64	.024	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-48785.	-8.8	374.7	4.02	10.22	.0107	32.64	.035	SI
31.	31.	3.	1.	-33187.	-6.	254.9	4.02	10.22	.0073	32.64	.024	SI
197.	197.	3.	1.	72582.	-13.2	557.5	4.02	10.22	.0159	32.64	.052	SI
435.	435.	3.	3.	-86831.	-11.1	340.8	8.04	9.43	.0097	21.47	.021	SI
> 435.	0.	3.	3.	-50369.	-6.4	197.7	8.04	9.43	.0056	21.47	.012	SI
632.	197.	3.	1.	48302.	-8.8	371.	4.02	10.22	.0106	32.64	.035	SI
870.	435.	3.	3.	-73562.	-9.4	288.7	8.04	9.43	.0082	21.47	.018	SI
> 870.	0.	3.	3.	-117381.	-15.	460.7	8.04	9.43	.0132	21.47	.028	SI
1115.	245.	3.	1.	87384.	-15.8	671.2	4.02	10.22	.0192	32.64	.063	SI
1370.	500.	3.	3.	-111695.	-14.3	438.4	8.04	9.43	.0125	21.47	.027	SI
>1370.	0.	3.	3.	-113842.	-14.5	446.8	8.04	9.43	.0128	21.47	.027	SI
1623.	253.	3.	1.	31812.	-5.8	244.3	4.02	10.22	.007	32.64	.023	SI
1750.	380.	3.	3.	-31768.	-4.1	124.7	8.04	9.43	.0036	21.47	.008	SI
1750.	380.	3.	3.	2429.	-3.	9.5	8.04	9.43	.0003	21.47	.001	SI
>1750.	0.	3.	3.	-177766.	-22.7	697.7	8.04	9.43	.0199	21.47	.043	SI
1958.	208.	3.	1.	182973.	-33.2	1405.4	4.02	10.22	.0402	32.64	.131	SI
2165.	415.	3.	3.	-194511.	-24.9	763.4	8.04	9.43	.0218	21.47	.047	SI
>2165.	0.	3.	3.	-199124.	-25.4	781.5	8.04	9.43	.0223	21.47	.048	SI
2382.	218.	3.	1.	160170.	-29.	1230.2	4.02	10.22	.0351	32.64	.115	SI
2600.	435.	3.	3.	-161216.	-20.6	632.7	8.04	9.43	.0181	21.47	.039	SI
>2600.	0.	3.	3.	-165680.	-21.2	650.3	8.04	9.43	.0186	21.47	.04	SI
2848.	248.	3.	1.	135766.	-24.6	1042.8	4.02	10.22	.0298	32.64	.097	SI
3055.	455.	3.	3.	-152174.	-19.4	597.2	8.04	9.43	.0171	21.47	.037	SI
>3055.	0.	3.	3.	-179746.	-23.	705.5	8.04	9.43	.0202	21.47	.043	SI
3272.	218.	3.	1.	158971.	-28.8	1221.	4.02	10.22	.0349	32.64	.114	SI
3490.	435.	3.	3.	-178297.	-22.8	699.8	8.04	9.43	.02	21.47	.043	SI
>3490.	0.	3.	3.	-191187.	-24.4	750.4	8.04	9.43	.0214	21.47	.046	SI

3708.	218.	3.	1.	160013.!	-29.	1229.	4.02	10.22	.0351	32.64	.115	SI
3925.	435.	3.	3.	-148295.!	-19.	582.	8.04	9.43	.0166	21.47	.036	SI
>3925.	0.	3.	3.	-61416.!	-7.8!	241.	8.04	9.43	.0069	21.47	.015	SI
4078.	152.	3.	1.	38393.!	-7.	294.9!	4.02	10.22	.0084	32.64	.028	SI
4220.	295.	3.	1.	-33382.!	-6.1	256.4	4.02	10.22	.0073	32.64	.024	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-48806.!	-8.8	374.9	4.02	10.22	.0107	32.64	.035	SI
31.	31.	3.	1.	-33230.!	-6.	255.2	4.02	10.22	.0073	32.64	.024	SI
197.	197.	3.	1.	72376.!	-13.1!	555.9!	4.02	10.22	.0159	32.64	.052	SI
435.	435.	3.	3.	-87273.!	-11.2!	342.5	8.04	9.43	.0098	21.47	.021	SI
> 435.	0.	3.	3.	-51368.!	-6.6	201.6	8.04	9.43	.0058	21.47	.012	SI
632.	197.	3.	1.	48322.!	-8.8	371.2!	4.02	10.22	.0106	32.64	.035	SI
870.	435.	3.	3.	-71452.!	-9.1!	280.4	8.04	9.43	.008	21.47	.017	SI
> 870.	0.	3.	3.	-115928.!	-14.8!	455.	8.04	9.43	.013	21.47	.028	SI
1115.	245.	3.	1.	87370.!	-15.8!	671.1!	4.02	10.22	.0192	32.64	.063	SI
1370.	500.	3.	3.	-110938.!	-14.2!	435.4	8.04	9.43	.0124	21.47	.027	SI
>1370.	0.	3.	3.	-109085.!	-13.9!	428.1!	8.04	9.43	.0122	21.47	.026	SI
1623.	253.	3.	1.	32163.!	-5.8	247.	4.02	10.22	.0071	32.64	.023	SI
1750.	380.	3.	3.	-31768.!	-4.1	124.7	8.04	9.43	.0036	21.47	.008	SI
>1750.	0.	3.	3.	-173916.!	-22.2!	682.6	8.04	9.43	.0195	21.47	.042	SI
1958.	208.	3.	1.	180140.!	-32.7!	1383.6!	4.02	10.22	.0395	32.64	.129	SI
2165.	415.	3.	3.	-192440.!	-24.6!	755.3	8.04	9.43	.0216	21.47	.046	SI
>2165.	0.	3.	3.	-195547.!	-25.	767.5	8.04	9.43	.0219	21.47	.047	SI
2382.	218.	3.	1.	157723.!	-28.6!	1211.4!	4.02	10.22	.0346	32.64	.113	SI
2600.	435.	3.	3.	-159211.!	-20.3!	624.9	8.04	9.43	.0179	21.47	.038	SI
>2600.	0.	3.	3.	-162641.!	-20.8!	638.3	8.04	9.43	.0182	21.47	.039	SI
2848.	248.	3.	1.	133652.!	-24.2!	1026.6!	4.02	10.22	.0293	32.64	.096	SI
3055.	455.	3.	3.	-150200.!	-19.2!	589.5	8.04	9.43	.0168	21.47	.036	SI
>3055.	0.	3.	3.	-176578.!	-22.6!	693.	8.04	9.43	.0198	21.47	.043	SI
3272.	218.	3.	1.	156527.!	-28.4!	1202.3!	4.02	10.22	.0344	32.64	.112	SI
3490.	435.	3.	3.	-175804.!	-22.5!	690.	8.04	9.43	.0197	21.47	.042	SI
>3490.	0.	3.	3.	-188211.!	-24.1!	738.7	8.04	9.43	.0211	21.47	.045	SI
3708.	218.	3.	1.	157602.!	-28.6!	1210.5!	4.02	10.22	.0346	32.64	.113	SI
3925.	435.	3.	3.	-145446.!	-18.6!	570.8	8.04	9.43	.0163	21.47	.035	SI
>3925.	0.	3.	3.	-61646.!	-7.9!	241.9	8.04	9.43	.0069	21.47	.015	SI
4078.	152.	3.	1.	38314.!	-6.9!	294.3!	4.02	10.22	.0084	32.64	.027	SI
4220.	295.	3.	1.	-33382.!	-6.1	256.4	4.02	10.22	.0073	32.64	.024	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 90 - Travata Tc002 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	lam.max
1	A771	3	3	3	0	435.	405.	10.875	1.3	2.072	44.034
2	A772	3	3	3	0	435.	405.	10.875	1.5	2.131	55.574
3	A773	3	3	3	0	510.	480.	12.75	1.5	1.693	41.515
4	A774	3	3	3	0	360.	330.	9.	1.5	3.192	83.236
5	A775	3	3	3	0	435.	405.	10.875	1.5	1.49	36.543
6	A776	3	3	3	0	435.	405.	10.875	1.5	1.705	41.813
7	A777	3	3	3	0	435.	405.	10.875	1.5	1.973	48.394
8	A778	3	3	3	0	435.	405.	10.875	1.5	2.556	66.634

9	A779	3	3	3	0	435	405	10.875	1.5	2.562	66.795
10	A780	3	3	3	0	305	275	7.625	1.3	5	112.985

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-337310.	-.046	.124	-.547369.	-.35	2.346	3.	.13	1.623	SI
0.	0.	3.	1.	25897.	-.003	.006	796796.	-.35	1.795	3.	.163	30.77	SI
197.	197.	3.	1.	384617.	-.049	.096	796796.	-.35	1.795	3.	.163	2.072	SI
319.	319.	3.	2.	267063.	-.029	.066	801560.	-.35	2.074	3.	.144	3.001	SI
360.	360.	3.	2.	-103081.	-.011	.019	-1047321.	-.35	1.62	3.	.178	10.16	SI
435.	435.	3.	3.	-377611.	-.036	.071	-1054435.	-.35	1.899	3.	.156	2.792	SI
> 435.	0.	3.	3.	-303629.	-.029	.057	-1054435.	-.35	1.899	3.	.156	3.473	SI
435.	0.	3.	3.	81442.	-.007	.012	1297700.	-.35	1.512	3.	.188	15.93	SI
488.	53.	3.	4.	-212764.	-.024	.04	-1039699.	-.35	1.395	3.	.201	4.887	SI
488.	53.	3.	4.	160265.	-.02	.059	547697.	-.35	2.388	3.	.128	3.417	SI
632.	197.	3.	5.	256544.	-.037	.095	546809.	-.35	2.278	3.	.133	2.131	SI
839.	404.	3.	4.	-404063.	-.047	.077	-1039699.	-.35	1.395	3.	.201	2.573	SI
870.	435.	3.	6.	-432118.	-.041	.081	-1054435.	-.35	1.899	3.	.156	2.44	SI
870.	435.	3.	6.	16136.	-.006	.009	1297700.	-.35	1.512	3.	.188	21.05	SI
> 870.	0.	3.	6.	-607035.	-.059	.114	-1054435.	-.35	1.899	3.	.156	1.737	SI
901.	31.	3.	2.	-558569.	-.061	.106	-1047321.	-.35	1.62	3.	.178	1.875	SI
901.	31.	3.	2.	18311.	-.002	.005	801560.	-.35	2.074	3.	.144	43.78	SI
1125.	255.	3.	1.	470713.	-.061	.118	796796.	-.35	1.795	3.	.163	1.693	SI
1380.	510.	3.	3.	-572918.	-.055	.108	-1054435.	-.35	1.899	3.	.156	1.84	SI
>1380.	0.	3.	3.	-389458.	-.037	.073	-1054435.	-.35	1.899	3.	.156	2.707	SI
1380.	0.	3.	3.	121007.	-.011	.018	1297700.	-.35	1.512	3.	.188	10.72	SI
1411.	31.	3.	4.	-365247.	-.042	.069	-1039699.	-.35	1.395	3.	.201	2.847	SI
1411.	31.	3.	4.	150687.	-.019	.055	547697.	-.35	2.388	3.	.128	3.635	SI
1497.	117.	3.	5.	171287.	-.025	.063	546809.	-.35	2.278	3.	.133	3.192	SI
1581.	201.	3.	5.	-20243.	-.003	.007	-546809.	-.35	2.278	3.	.133	27.01	SI
1740.	360.	3.	6.	-309199.	-.029	.058	-1054435.	-.35	1.899	3.	.156	3.41	SI
1740.	360.	3.	6.	105954.	-.01	.016	1297700.	-.35	1.512	3.	.188	12.25	SI
>1740.	0.	3.	6.	-528190.	-.051	.099	-1054435.	-.35	1.899	3.	.156	1.996	SI
1771.	31.	3.	2.	-464983.	-.05	.088	-1047321.	-.35	1.62	3.	.178	2.252	SI
1771.	31.	3.	2.	48225.	-.005	.012	801560.	-.35	2.074	3.	.144	16.62	SI
1937.	197.	3.	1.	534761.	-.069	.134	796796.	-.35	1.795	3.	.163	1.49	SI
2059.	319.	3.	2.	-24068.	-.002	.005	-1047321.	-.35	1.62	3.	.178	43.52	SI
2175.	435.	3.	7.	-652994.	-.06	.123	-1056361.	-.35	1.987	3.	.15	1.618	SI
>2175.	0.	3.	7.	-608886.	-.056	.114	-1056361.	-.35	1.987	3.	.15	1.735	SI
2191.	16.	3.	7.	3497.	0.	0.	1539128.	-.35	1.268	3.	.216	440.1	SI
2206.	31.	3.	2.	-550708.	-.06	.104	-1047321.	-.35	1.62	3.	.178	1.902	SI
2206.	31.	3.	2.	66841.	-.007	.017	801560.	-.35	2.074	3.	.144	11.99	SI
2413.	238.	3.	1.	467362.	-.06	.117	796796.	-.35	1.795	3.	.163	1.705	SI
2610.	435.	3.	7.	-558028.	-.051	.105	-1056361.	-.35	1.987	3.	.15	1.893	SI
>2610.	0.	3.	7.	-543707.	-.049	.102	-1056361.	-.35	1.987	3.	.15	1.943	SI
2641.	31.	3.	2.	-491866.	-.053	.093	-1047321.	-.35	1.62	3.	.178	2.129	SI
2641.	31.	3.	2.	43516.	-.005	.011	801560.	-.35	2.074	3.	.144	18.42	SI
2848.	238.	3.	1.	403809.	-.051	.101	796796.	-.35	1.795	3.	.163	1.973	SI
2929.	319.	3.	2.	-2723.	0.	.001	-1047321.	-.35	1.62	3.	.178	384.6	SI
3029.	419.	3.	3.	23844.	-.002	.004	1297700.	-.35	1.512	3.	.188	54.42	SI
3045.	435.	3.	3.	-421814.	-.04	.079	-1054435.	-.35	1.899	3.	.156	2.5	SI
>3045.	0.	3.	3.	-333120.	-.032	.063	-1054435.	-.35	1.899	3.	.156	3.165	SI
3045.	0.	3.	3.	2433.	0.	0.	1297700.	-.35	1.512	3.	.188	533.3	SI
3076.	31.	3.	4.	-305099.	-.035	.058	-1039699.	-.35	1.395	3.	.201	3.408	SI
3076.	31.	3.	4.	60048.	-.008	.022	547697.	-.35	2.388	3.	.128	9.121	SI
3201.	156.	3.	5.	-638.	0.	0.	-546809.	-.35	2.278	3.	.133	856.7	SI
3283.	238.	3.	5.	213963.	-.031	.079	546809.	-.35	2.278	3.	.133	2.556	SI
3480.	435.	3.	8.	-244944.	-.024	.046	-1051660.	-.35	1.781	3.	.164	4.293	SI
3480.	435.	3.	8.	21930.	-.002	.004	1051660.	-.35	1.781	3.	.164	47.96	SI
>3480.	0.	3.	8.	-263841.	-.026	.05	-1051660.	-.35	1.781	3.	.164	3.986	SI
3495.	15.	3.	8.	13090.	-.001	.002	1051660.	-.35	1.781	3.	.164	80.34	SI
3511.	31.	3.	4.	-242698.	-.028	.046	-1039699.	-.35	1.395	3.	.201	4.284	SI
3511.	31.	3.	4.	42013.	-.005	.015	547697.	-.35	2.388	3.	.128	13.04	SI
3718.	238.	3.	5.	213448.	-.031	.079	546809.	-.35	2.278	3.	.133	2.562	SI
3915.	435.	3.	8.	-218258.	-.022	.041	-1051660.	-.35	1.781	3.	.164	4.818	SI
3915.	435.	3.	8.	29167.	-.003	.005	1051660.	-.35	1.781	3.	.164	36.06	SI
>3915.	0.	3.	8.	-70975.	-.007	.013	-1051660.	-.35	1.781	3.	.164	14.82	SI
3946.	31.	3.	4.	-65184.	-.007	.012	-1039699.	-.35	1.395	3.	.201	15.95	SI
3990.	75.	3.	4.	2327.	0.	.001	547697.	-.35	2.388	3.	.128	235.3	SI

4167.	252.	3.	5.	42706.	!-.006	.016	546809.	-.35	2.278	3.	.133	12.8	SI
4220.	305.	3.	5.	-107892.	!-.015	.04	-546809.	-.35	2.278	3.	.133	5.068	SI
4220.	305.	3.	5.	40967.	!-.006	.015	546809.	-.35	2.278	3.	.133	13.35	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-685.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	7787.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-1927.	4455.	24411.	24577.	1.01	9.	1.75	SI
435.	435.	3.	-7642.	5613.	28335.	14044.	1.01	9.	1.	SI
435.	435.	3.	830.	5613.	28335.	14044.	1.01	9.	1.	SI
> 435.	0.	3.	-2622.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	0.	3.	8055.	3948.	28335.	14044.	1.01	9.	1.	SI
488.	53.	3.	-3171.	4455.	28335.	14044.	1.01	9.	1.	SI
510.	75.	3.	-3488.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	435.	3.	-8465.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	435.	3.	1780.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	-808.	5613.	28335.	14044.	1.01	9.	1.	SI
870.	0.	3.	8588.	5613.	28335.	14044.	1.01	9.	1.	SI
945.	75.	3.	-1793.	4455.	24411.	24577.	1.01	9.	1.75	SI
1380.	510.	3.	-8683.	5613.	28335.	14044.	1.01	9.	1.	SI
1380.	510.	3.	713.	5613.	28335.	14044.	1.01	9.	1.	SI
>1380.	0.	3.	-3595.	3948.	28335.	14044.	1.01	9.	1.	SI
1380.	0.	3.	8715.	3948.	28335.	14044.	1.01	9.	1.	SI
1433.	53.	3.	-4135.	4455.	28335.	14044.	1.01	9.	1.	SI
1455.	75.	3.	-4447.	4455.	24411.	24577.	1.01	9.	1.75	SI
1740.	360.	3.	-8282.	3948.	28335.	14044.	1.01	9.	1.	SI
1740.	360.	3.	3602.	3948.	28335.	14044.	1.01	9.	1.	SI
>1740.	0.	3.	-274.	5613.	28335.	14044.	1.01	9.	1.	SI
1740.	0.	3.	10971.	5613.	28335.	14044.	1.01	9.	1.	SI
1815.	75.	3.	-1807.	4455.	24411.	24577.	1.01	9.	1.75	SI
2175.	435.	3.	-10619.	5613.	28335.	14044.	1.01	9.	1.	SI
2175.	435.	3.	626.	5613.	28335.	14044.	1.01	9.	1.	SI
>2175.	0.	3.	-953.	5613.	28335.	14044.	1.01	9.	1.	SI
2175.	0.	3.	10630.	5613.	28335.	14044.	1.01	9.	1.	SI
2250.	75.	3.	-2386.	4455.	24411.	24577.	1.01	9.	1.75	SI
2610.	435.	3.	-10630.	3948.	28335.	14044.	1.01	9.	1.	SI
2610.	435.	3.	953.	3948.	28335.	14044.	1.01	9.	1.	SI
>2610.	0.	3.	-1270.	5613.	28335.	14044.	1.01	9.	1.	SI
2610.	0.	3.	10084.	5613.	28335.	14044.	1.01	9.	1.	SI
2685.	75.	3.	-2605.	4455.	24411.	24577.	1.01	9.	1.75	SI
3045.	435.	3.	-10281.	3948.	28335.	14044.	1.01	9.	1.	SI
3045.	435.	3.	1074.	3948.	28335.	14044.	1.01	9.	1.	SI
>3045.	0.	3.	-2775.	3948.	28335.	14044.	1.01	9.	1.	SI
3045.	0.	3.	7340.	3948.	28335.	14044.	1.01	9.	1.	SI
3098.	53.	3.	-3209.	4455.	28335.	14044.	1.01	9.	1.	SI
3120.	75.	3.	-3459.	4455.	24411.	24577.	1.01	9.	1.75	SI
3480.	435.	3.	-7392.	3948.	28335.	14044.	1.01	9.	1.	SI
3480.	435.	3.	2381.	3948.	28335.	14044.	1.01	9.	1.	SI
>3480.	0.	3.	-2553.	3948.	28335.	14044.	1.01	9.	1.	SI
3480.	0.	3.	7460.	3948.	28335.	14044.	1.01	9.	1.	SI
3533.	53.	3.	-2987.	4455.	28335.	14044.	1.01	9.	1.	SI
3555.	75.	3.	-3237.	4455.	24411.	24577.	1.01	9.	1.75	SI
3915.	435.	3.	-7170.	3948.	28335.	14044.	1.01	9.	1.	SI
3915.	435.	3.	2672.	3948.	28335.	14044.	1.01	9.	1.	SI
>3915.	0.	3.	-4511.	5613.	28335.	14044.	1.01	9.	1.	SI
3915.	0.	3.	5939.	5613.	28335.	14044.	1.01	9.	1.	SI
3990.	75.	3.	-4709.	4455.	24411.	24577.	1.01	9.	1.75	SI
4220.	305.	3.	-5417.	3948.	28335.	14044.	1.01	9.	1.	SI
4220.	305.	3.	4984.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-243764.	-42.	1872.1	4.02	10.33	.0535	32.87	.176	SI
15.	15.	3.	1.	-185644.	-32.	1425.7	4.02	10.33	.0407	32.87	.134	SI
31.	31.	3.	1.	-123397.	-21.3	947.7	4.02	10.33	.0271	32.87	.089	SI
197.	197.	3.	1.	278141.	-43.4	1445.5	6.03	9.64	.0452	24.94	.113	SI
435.	435.	3.	3.	-274323.	-33.5	1074.8	8.04	9.54	.0328	21.58	.071	SI
> 435.	0.	3.	3.	-181931.	-22.2	712.8	8.04	9.54	.0204	21.58	.044	SI
632.	197.	3.	5.	187426.	-34.	1439.6	4.02	10.22	.0411	32.64	.134	SI
870.	435.	3.	6.	-305823.	-37.3	1198.2	8.04	9.54	.0387	21.58	.084	SI
> 870.	0.	3.	6.	-438079.	-53.5	1716.3	8.04	9.54	.0634	21.58	.137	SI
1125.	255.	3.	1.	340422.	-53.1	1769.2	6.03	9.64	.0606	24.94	.151	SI
1380.	510.	3.	3.	-413210.	-50.4	1618.9	8.04	9.54	.0587	21.58	.127	SI
>1380.	0.	3.	3.	-248675.	-30.4	974.3	8.04	9.54	.028	21.58	.061	SI
1581.	201.	3.	5.	122752.	-22.3	942.8	4.02	10.22	.0269	32.64	.088	SI
1740.	360.	3.	6.	-170949.	-20.9	669.8	8.04	9.54	.0191	21.58	.041	SI
>1740.	0.	3.	6.	-379897.	-46.4	1488.4	8.04	9.54	.0525	21.58	.113	SI
1937.	197.	3.	1.	384667.	-60.1	1999.1	6.03	9.64	.0715	24.94	.178	SI
2175.	435.	3.	7.	-470268.	-55.	1840.	8.04	9.65	.0691	21.69	.15	SI
>2175.	0.	3.	7.	-438471.	-51.3	1715.6	8.04	9.65	.0632	21.69	.137	SI
2413.	238.	3.	1.	336298.	-52.5	1747.8	6.03	9.64	.0595	24.94	.148	SI



2610.	435.	3.	7.	-401370.	-47.	1570.4	8.04	9.65	.0563	21.69	.122	SI
>2610.	0.	3.	7.	-391046.	-45.7	1530.	8.04	9.65	.0543	21.69	.118	SI
2848.	238.	3.	1.	290534.	-45.4	1509.9	6.03	9.64	.0482	24.94	.12	SI
3045.	435.	3.	3.	-302808.	-37.	1186.4	8.04	9.54	.0381	21.58	.082	SI
>3045.	0.	3.	3.	-240883.	-29.4	943.7	8.04	9.54	.027	21.58	.058	SI
3283.	238.	3.	5.	155211.	-28.1	1192.1	4.02	10.22	.0341	32.64	.111	SI
3480.	435.	3.	8.	-175790.	-22.5	689.9	8.04	9.43	.0197	21.47	.042	SI
>3480.	0.	3.	8.	-188483.	-24.1	739.7	8.04	9.43	.0211	21.47	.045	SI
3718.	238.	3.	5.	156525.	-28.4	1202.2	4.02	10.22	.0343	32.64	.112	SI
3915.	435.	3.	8.	-145480.	-18.6	571.	8.04	9.43	.0163	21.47	.035	SI
>3915.	0.	3.	8.	-47573.	-6.1	186.7	8.04	9.43	.0053	21.47	.011	SI
4068.	152.	3.	5.	24213.	-4.4	186.	4.02	10.22	.0053	32.64	.017	SI
4220.	305.	3.	5.	-45219.	-8.2	347.3	4.02	10.22	.0099	32.64	.032	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-208427.	-36.	1600.7	4.02	10.33	.0457	32.87	.15	SI
15.	15.	3.	1.	-158922.	-27.4	1220.5	4.02	10.33	.0349	32.87	.115	SI
31.	31.	3.	1.	-105903.	-18.3	813.3	4.02	10.33	.0232	32.87	.076	SI
197.	197.	3.	1.	238021.	-37.2	1237.	6.03	9.64	.0353	24.94	.088	SI
435.	435.	3.	3.	-239976.	-29.3	940.2	8.04	9.54	.0269	21.58	.058	SI
> 435.	0.	3.	3.	-156225.	-19.1	612.1	8.04	9.54	.0175	21.58	.038	SI
632.	197.	3.	5.	158692.	-28.8	1218.9	4.02	10.22	.0348	32.64	.114	SI
870.	435.	3.	6.	-260021.	-31.7	1018.7	8.04	9.54	.0302	21.58	.065	SI
> 870.	0.	3.	6.	-373533.	-45.6	1463.4	8.04	9.54	.0513	21.58	.111	SI
1125.	255.	3.	1.	290292.	-45.3	1508.7	6.03	9.64	.0482	24.94	.12	SI
1380.	510.	3.	3.	-350733.	-42.8	1374.1	8.04	9.54	.0471	21.58	.102	SI
>1380.	0.	3.	3.	-206753.	-25.2	810.	8.04	9.54	.0231	21.58	.05	SI
1581.	201.	3.	5.	104391.	-18.9	801.8	4.02	10.22	.0229	32.64	.075	SI
1740.	360.	3.	6.	-144697.	-17.7	566.9	8.04	9.54	.0162	21.58	.035	SI
>1740.	0.	3.	6.	-320373.	-39.1	1255.2	8.04	9.54	.0414	21.58	.089	SI
1937.	197.	3.	1.	324218.	-50.6	1685.	6.03	9.64	.0566	24.94	.141	SI
2175.	435.	3.	7.	-397528.	-46.5	1555.4	8.04	9.65	.0555	21.69	.12	SI
>2175.	0.	3.	7.	-370614.	-43.4	1450.1	8.04	9.65	.0505	21.69	.11	SI
2413.	238.	3.	1.	284166.	-44.4	1476.8	6.03	9.64	.0466	24.94	.116	SI
2610.	435.	3.	7.	-338729.	-39.6	1325.3	8.04	9.65	.0446	21.69	.097	SI
>2610.	0.	3.	7.	-329686.	-38.6	1289.9	8.04	9.65	.0429	21.69	.093	SI
2848.	238.	3.	1.	245156.	-38.3	1274.1	6.03	9.64	.037	24.94	.092	SI
3045.	435.	3.	3.	-257165.	-31.4	1007.5	8.04	9.54	.0296	21.58	.064	SI
>3045.	0.	3.	3.	-206069.	-25.2	807.3	8.04	9.54	.0231	21.58	.05	SI
3283.	238.	3.	5.	134062.	-24.3	1029.7	4.02	10.22	.0294	32.64	.096	SI
3480.	435.	3.	8.	-154203.	-19.7	605.2	8.04	9.43	.0173	21.47	.037	SI
>3480.	0.	3.	8.	-166904.	-21.3	655.1	8.04	9.43	.0187	21.47	.04	SI
3718.	238.	3.	5.	134681.	-24.4	1034.5	4.02	10.22	.0296	32.64	.096	SI
3915.	435.	3.	8.	-122368.	-15.6	480.3	8.04	9.43	.0137	21.47	.029	SI
>3915.	0.	3.	8.	-45772.	-5.8	179.6	8.04	9.43	.0051	21.47	.011	SI
4068.	152.	3.	5.	24123.	-4.4	185.3	4.02	10.22	.0053	32.64	.017	SI
4220.	305.	3.	5.	-36938.	-6.7	283.7	4.02	10.22	.0081	32.64	.026	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-204500.	-35.3	1570.5	4.02	10.33	.0449	32.87	.147	SI
15.	15.	3.	1.	-156059.	-26.9	1198.5	4.02	10.33	.0342	32.87	.113	SI
31.	31.	3.	1.	-104177.	-18.	800.1	4.02	10.33	.0229	32.87	.075	SI
197.	197.	3.	1.	233844.	-36.5	1215.3	6.03	9.64	.0347	24.94	.087	SI
435.	435.	3.	3.	-239163.	-29.2	937.	8.04	9.54	.0268	21.58	.058	SI
> 435.	0.	3.	3.	-156971.	-19.2	615.	8.04	9.54	.0176	21.58	.038	SI
632.	197.	3.	5.	156840.	-28.4	1204.7	4.02	10.22	.0344	32.64	.112	SI
870.	435.	3.	6.	-252275.	-30.8	988.4	8.04	9.54	.0287	21.58	.062	SI
> 870.	0.	3.	6.	-365267.	-44.6	1431.1	8.04	9.54	.0498	21.58	.107	SI
1125.	255.	3.	1.	285330.	-44.5	1482.9	6.03	9.64	.0469	24.94	.117	SI
1380.	510.	3.	3.	-342245.	-41.8	1340.9	8.04	9.54	.0455	21.58	.098	SI
>1380.	0.	3.	3.	-197367.	-24.1	773.3	8.04	9.54	.0221	21.58	.048	SI
1581.	201.	3.	5.	103571.	-18.8	795.5	4.02	10.22	.0227	32.64	.074	SI
1740.	360.	3.	6.	-146123.	-17.8	572.5	8.04	9.54	.0164	21.58	.035	SI
>1740.	0.	3.	6.	-313331.	-38.3	1227.6	8.04	9.54	.0401	21.58	.087	SI
1937.	197.	3.	1.	317239.	-49.5	1648.7	6.03	9.64	.0548	24.94	.137	SI
2175.	435.	3.	7.	-390216.	-45.6	1526.8	8.04	9.65	.0542	21.69	.117	SI
>2175.	0.	3.	7.	-363709.	-42.5	1423.	8.04	9.65	.0492	21.69	.107	SI
2413.	238.	3.	1.	278253.	-43.4	1446.1	6.03	9.64	.0452	24.94	.113	SI
2610.	435.	3.	7.	-331515.	-38.8	1297.1	8.04	9.65	.0432	21.69	.094	SI
>2610.	0.	3.	7.	-322892.	-37.8	1263.3	8.04	9.65	.0416	21.69	.09	SI
2848.	238.	3.	1.	240308.	-37.5	1248.9	6.03	9.64	.0358	24.94	.089	SI
3045.	435.	3.	3.	-251602.	-30.7	985.7	8.04	9.54	.0286	21.58	.062	SI
>3045.	0.	3.	3.	-202413.	-24.7	793.	8.04	9.54	.0227	21.58	.049	SI
3283.	238.	3.	5.	133267.	-24.2	1023.6	4.02	10.22	.0292	32.64	.095	SI
3480.	435.	3.	8.	-152442.	-19.5	598.3	8.04	9.43	.0171	21.47	.037	SI
>3480.	0.	3.	8.	-165997.	-21.2	651.5	8.04	9.43	.0186	21.47	.04	SI
3718.	238.	3.	5.	132166.	-24.	1015.1	4.02	10.22	.029	32.64	.095	SI
3915.	435.	3.	8.	-118385.	-15.1	464.6	8.04	9.43	.0133	21.47	.028	SI
>3915.	0.	3.	8.	-47266.	-6.	185.5	8.04	9.43	.0053	21.47	.011	SI
4068.	152.	3.	5.	24402.	-4.4	187.4	4.02	10.22	.0054	32.64	.017	SI
4220.	305.	3.	5.	-33902.	-6.1	260.4	4.02	10.22	.0074	32.64	.024	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
3	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	3d16 +2d16
4	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
5	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
6	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	2d16 +3d16
7	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16
8	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 91 - Travata Tc003 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogenein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A792	3	3	3	0	415.	365.	10.375	1.3	1.822	38.726
2	A793	3	3	3	0	455.	405.	11.375	1.5	1.906	49.708
3	A794	3	3	3	0	490.	440.	12.25	1.5	1.582	38.801
4	A795	3	3	3	0	380.	330.	9.5	1.5	2.922	76.181
5	A796	3	3	3	0	435.	385.	10.875	1.5	2.077	50.948
6	A797	3	3	3	0	415.	365.	10.375	1.5	2.355	57.761
7	A798	3	3	3	0	445.	405.	11.125	1.5	2.791	68.445
8	A799	3	3	3	0	435.	405.	10.875	1.5	5.	130.367
9	A800	3	3	3	0	435.	405.	10.875	1.5	5.	130.367
10	A801	3	3	3	0	305.	275.	7.625	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-381988.	-.053	.141	-.547369.	-.35	2.346	3.	.13	1.433	SI
0.	0.	3.	1.	106610.	-.013	.027	796796.	-.35	1.795	3.	.163	7.474	SI
126.	126.	3.	1.	-11405.	-.002	.004	-547369.	-.35	2.346	3.	.13	47.99	SI
208.	208.	3.	1.	437335.	-.056	.109	796796.	-.35	1.795	3.	.163	1.822	SI
390.	390.	3.	3.	130796.	-.012	.02	1297700.	-.35	1.512	3.	.188	9.922	SI
415.	415.	3.	3.	-438208.	-.042	.082	-1054435.	-.35	1.899	3.	.156	2.406	SI
415.	415.	3.	3.	51030.	-.005	.008	1297700.	-.35	1.512	3.	.188	25.43	SI
> 415.	0.	3.	3.	-358075.	-.034	.067	-1054435.	-.35	1.899	3.	.156	2.945	SI
415.	0.	3.	3.	86406.	-.008	.013	1297700.	-.35	1.512	3.	.188	15.02	SI
478.	63.	3.	4.	-242363.	-.027	.046	-1039699.	-.35	1.395	3.	.201	4.29	SI
478.	63.	3.	4.	190433.	-.024	.07	547697.	-.35	2.388	3.	.128	2.876	SI
622.	207.	3.	5.	286821.	-.042	.106	546809.	-.35	2.278	3.	.133	1.906	SI
704.	289.	3.	5.	-16007.	-.002	.006	-546809.	-.35	2.278	3.	.133	34.16	SI
870.	455.	3.	6.	-407166.	-.039	.076	-1054435.	-.35	1.899	3.	.156	2.59	SI
870.	455.	3.	6.	77465.	-.007	.012	1297700.	-.35	1.512	3.	.188	16.75	SI

> 870.	0.	3.	6.	-538808.	-.052	.101	-1054435.	-.35	1.899	3.	.156	1.957	SI
895.	25.	3.	6.	19401.	-.002	.003	1297700.	-.35	1.512	3.	.188	66.89	SI
911.	41.	3.	2.	83462.	-.009	.021	801560.	-.35	2.074	3.	.144	9.604	SI
1001.	131.	3.	2.	-1502.	0.	0.	-1047321.	-.35	1.62	3.	.178	697.2	SI
1092.	222.	3.	1.	503646.	-.065	.126	796796.	-.35	1.795	3.	.163	1.582	SI
1360.	490.	3.	3.	-570293.	-.055	.107	-1054435.	-.35	1.899	3.	.156	1.849	SI
>1360.	0.	3.	3.	-524078.	-.05	.098	-1054435.	-.35	1.899	3.	.156	2.012	SI
1360.	0.	3.	3.	58057.	-.005	.009	1297700.	-.35	1.512	3.	.188	22.35	SI
1401.	41.	3.	4.	-473081.	-.055	.09	-1039699.	-.35	1.395	3.	.201	2.198	SI
1401.	41.	3.	4.	100108.	-.013	.037	547697.	-.35	2.388	3.	.128	5.471	SI
1571.	211.	3.	5.	-9714.	-.001	.004	-546809.	-.35	2.278	3.	.133	56.29	SI
1699.	339.	3.	4.	187452.	-.024	.069	547697.	-.35	2.388	3.	.128	2.922	SI
1740.	380.	3.	6.	-313359.	-.03	.059	-1054435.	-.35	1.899	3.	.156	3.365	SI
1740.	380.	3.	6.	177580.	-.016	.027	1297700.	-.35	1.512	3.	.188	7.308	SI
>1740.	0.	3.	6.	-346412.	-.033	.065	-1054435.	-.35	1.899	3.	.156	3.044	SI
1740.	0.	3.	6.	21595.	-.002	.003	1297700.	-.35	1.512	3.	.188	60.09	SI
1958.	218.	3.	1.	383562.	-.049	.096	796796.	-.35	1.795	3.	.163	2.077	SI
2046.	306.	3.	1.	-34030.	-.005	.013	-547369.	-.35	2.346	3.	.13	16.09	SI
2150.	410.	3.	7.	49311.	-.004	.006	1539128.	-.35	1.268	3.	.216	31.21	SI
2159.	419.	3.	7.	20250.	-.002	.003	1539128.	-.35	1.268	3.	.216	76.01	SI
2175.	435.	3.	7.	-484817.	-.044	.091	-1056361.	-.35	1.987	3.	.15	2.179	SI
>2175.	0.	3.	7.	-426374.	-.038	.08	-1056361.	-.35	1.987	3.	.15	2.478	SI
2175.	0.	3.	7.	12488.	-.001	.002	1539128.	-.35	1.268	3.	.216	123.2	SI
2301.	126.	3.	1.	-36783.	-.005	.014	-547369.	-.35	2.346	3.	.13	14.88	SI
2382.	208.	3.	1.	338323.	-.043	.085	796796.	-.35	1.795	3.	.163	2.355	SI
2590.	415.	3.	7.	-373898.	-.034	.07	-1056361.	-.35	1.987	3.	.15	2.825	SI
2590.	415.	3.	7.	49397.	-.004	.006	1539128.	-.35	1.268	3.	.216	31.16	SI
>2590.	0.	3.	7.	-365228.	-.033	.068	-1056361.	-.35	1.987	3.	.15	2.892	SI
2590.	0.	3.	7.	18314.	-.002	.002	1539128.	-.35	1.268	3.	.216	84.04	SI
2631.	41.	3.	2.	108538.	-.012	.027	801560.	-.35	2.074	3.	.144	7.385	SI
2838.	248.	3.	1.	285512.	-.036	.071	796796.	-.35	1.795	3.	.163	2.791	SI
3035.	445.	3.	3.	-281501.	-.027	.053	-1054435.	-.35	1.899	3.	.156	3.746	SI
3035.	445.	3.	3.	20237.	-.002	.003	1297700.	-.35	1.512	3.	.188	64.13	SI
>3035.	0.	3.	3.	-201793.	-.019	.038	-1054435.	-.35	1.899	3.	.156	5.225	SI
3035.	0.	3.	3.	6927.	-.001	.001	1297700.	-.35	1.512	3.	.188	187.3	SI
3066.	31.	3.	4.	-190556.	-.021	.036	-1039699.	-.35	1.395	3.	.201	5.456	SI
3066.	31.	3.	4.	25134.	-.003	.009	547697.	-.35	2.388	3.	.128	21.79	SI
3232.	197.	3.	5.	-1723.	0.	.001	-546809.	-.35	2.278	3.	.133	317.3	SI
3354.	319.	3.	4.	76729.	-.01	.028	547697.	-.35	2.388	3.	.128	7.138	SI
3470.	435.	3.	8.	-146732.	-.014	.028	-1051660.	-.35	1.781	3.	.164	7.167	SI
3470.	435.	3.	8.	58046.	-.006	.011	1051660.	-.35	1.781	3.	.164	18.12	SI
>3470.	0.	3.	8.	-141362.	-.014	.027	-1051660.	-.35	1.781	3.	.164	7.439	SI
3470.	0.	3.	8.	49613.	-.005	.009	1051660.	-.35	1.781	3.	.164	21.2	SI
3501.	31.	3.	4.	-131823.	-.015	.025	-1039699.	-.35	1.395	3.	.201	7.887	SI
3501.	31.	3.	4.	63655.	-.008	.023	547697.	-.35	2.388	3.	.128	8.604	SI
3586.	116.	3.	4.	76833.	-.01	.028	547697.	-.35	2.388	3.	.128	7.128	SI
3749.	279.	3.	5.	-2113.	0.	.001	-546809.	-.35	2.278	3.	.133	258.7	SI
3905.	435.	3.	8.	-154982.	-.015	.029	-1051660.	-.35	1.781	3.	.164	6.786	SI
3905.	435.	3.	8.	20736.	-.002	.004	1051660.	-.35	1.781	3.	.164	50.72	SI
>3905.	0.	3.	8.	-103313.	-.01	.019	-1051660.	-.35	1.781	3.	.164	10.18	SI
3905.	0.	3.	8.	31799.	-.003	.006	1051660.	-.35	1.781	3.	.164	33.07	SI
3936.	31.	3.	4.	-93199.	-.01	.018	-1039699.	-.35	1.395	3.	.201	11.16	SI
3936.	31.	3.	4.	37856.	-.005	.014	547697.	-.35	2.388	3.	.128	14.47	SI
4157.	252.	3.	5.	69381.	-.01	.026	546809.	-.35	2.278	3.	.133	7.881	SI
4210.	305.	3.	5.	-115619.	-.016	.043	-546809.	-.35	2.278	3.	.133	4.729	SI
4210.	305.	3.	5.	65397.	-.009	.024	546809.	-.35	2.278	3.	.133	8.361	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1789.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	8413.	3948.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-2952.	4455.	24411.	24577.	1.01	9.	1.75	SI
167.	167.	3.	-4535.	5099.	19541.	11285.	1.01	28.	2.5	SI
415.	415.	3.	-8862.	3948.	28335.	14044.	1.01	9.	1.	SI
415.	415.	3.	371.	3948.	28335.	14044.	1.01	9.	1.	SI
> 415.	0.	3.	-2177.	3948.	28335.	14044.	1.01	9.	1.	SI
415.	0.	3.	8209.	3948.	28335.	14044.	1.01	9.	1.	SI
456.	41.	3.	-2425.	4455.	28335.	14044.	1.01	9.	1.	SI
500.	85.	3.	-3101.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	455.	3.	-8412.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	455.	3.	1204.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	-740.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	0.	3.	9040.	3948.	28335.	14044.	1.01	9.	1.	SI
911.	41.	3.	-1046.	5099.	28335.	14044.	1.01	9.	1.	SI
955.	85.	3.	-1883.	4455.	24411.	24577.	1.01	9.	1.75	SI
1360.	490.	3.	-9126.	3948.	28335.	14044.	1.01	9.	1.	SI
1360.	490.	3.	654.	3948.	28335.	14044.	1.01	9.	1.	SI
>1360.	0.	3.	-3079.	3948.	28335.	14044.	1.01	9.	1.	SI
1360.	0.	3.	8757.	3948.	28335.	14044.	1.01	9.	1.	SI
1401.	41.	3.	-3321.	4455.	28335.	14044.	1.01	9.	1.	SI
1445.	85.	3.	-3980.	4455.	24411.	24577.	1.01	9.	1.75	SI
1740.	380.	3.	-8036.	3948.	28335.	14044.	1.01	9.	1.	SI
1740.	380.	3.	3049.	3948.	28335.	14044.	1.01	9.	1.	SI
>1740.	0.	3.	-1886.	3948.	28335.	14044.	1.01	9.	1.	SI
1740.	0.	3.	9821.	3948.	28335.	14044.	1.01	9.	1.	SI

1781.	41.	3.	-2183.	5099	28335	14044	1.01	9.	1.	SI
1825.	85.	3.	-2996.	4455	24411	24577	1.01	9.	1.75	SI
2175.	435.	3.	-9004.	3948	28335	14044	1.01	9.	1.	SI
2175.	435.	3.	2241.	3948	28335	14044	1.01	9.	1.	SI
>2175.	0.	3.	-2766.	3948	28335	14044	1.01	9.	1.	SI
2175.	0.	3.	9828.	3948	28335	14044	1.01	9.	1.	SI
2216.	41.	3.	-3058.	5099	28335	14044	1.01	9.	1.	SI
2260.	85.	3.	-3854.	4455	24411	24577	1.01	9.	1.75	SI
2590.	415.	3.	-9383.	3948	28335	14044	1.01	9.	1.	SI
2590.	415.	3.	2305.	3948	28335	14044	1.01	9.	1.	SI
>2590.	0.	3.	-2535.	3948	28335	14044	1.01	9.	1.	SI
2590.	0.	3.	8957.	3948	28335	14044	1.01	9.	1.	SI
2631.	41.	3.	-2788.	5099	28335	14044	1.01	9.	1.	SI
2675.	85.	3.	-3480.	4455	24411	24577	1.01	9.	1.75	SI
3035.	445.	3.	-8910.	3948	28335	14044	1.01	9.	1.	SI
3035.	445.	3.	1953.	3948	28335	14044	1.01	9.	1.	SI
>3035.	0.	3.	-4112.	3948	28335	14044	1.01	9.	1.	SI
3035.	0.	3.	5905.	3948	28335	14044	1.01	9.	1.	SI
3088.	53.	3.	-4294.	4455	28335	14044	1.01	9.	1.	SI
3110.	75.	3.	-4400.	4455	24411	24577	1.01	9.	1.75	SI
3470.	435.	3.	-6056.	3948	28335	14044	1.01	9.	1.	SI
3470.	435.	3.	3817.	3948	28335	14044	1.01	9.	1.	SI
>3470.	0.	3.	-3890.	3948	28335	14044	1.01	9.	1.	SI
3470.	0.	3.	6195.	3948	28335	14044	1.01	9.	1.	SI
3523.	53.	3.	-4073.	4455	28335	14044	1.01	9.	1.	SI
3545.	75.	3.	-4178.	4455	24411	24577	1.01	9.	1.75	SI
3905.	435.	3.	-5834.	3948	28335	14044	1.01	9.	1.	SI
3905.	435.	3.	4107.	3948	28335	14044	1.01	9.	1.	SI
>3905.	0.	3.	-4239.	3948	28335	14044	1.01	9.	1.	SI
3905.	0.	3.	6291.	3948	28335	14044	1.01	9.	1.	SI
3958.	53.	3.	-4439.	4455	28335	14044	1.01	9.	1.	SI
3980.	75.	3.	-4555.	4455	24411	24577	1.01	9.	1.75	SI
4210.	305.	3.	-5689.	3948	28335	14044	1.01	9.	1.	SI
4210.	305.	3.	4683.	3948	28335	14044	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-248014.	-42.8	1904.7	4.02	10.33	.0544	32.87	.179	SI
16.	16.	3.	1.	-224917.	-38.8	1727.3	4.02	10.33	.0494	32.87	.162	SI
41.	41.	3.	1.	-120196.	-20.7	923.1	4.02	10.33	.0264	32.87	.087	SI
208.	208.	3.	1.	313952.	-49.	1631.6	6.03	9.64	.054	24.94	.135	SI
415.	415.	3.	3.	-305172.	-37.3	1195.6	8.04	9.54	.0386	21.58	.083	SI
> 415.	0.	3.	3.	-236631.	-28.9	927.1	8.04	9.54	.0265	21.58	.057	SI
622.	207.	3.	5.	205587.	-37.3	1579.1	4.02	10.22	.0451	32.64	.147	SI
870.	455.	3.	6.	-278558.	-34.	1091.4	8.04	9.54	.0336	21.58	.073	SI
> 870.	0.	3.	6.	-385961.	-47.1	1512.1	8.04	9.54	.0536	21.58	.116	SI
1092.	222.	3.	1.	361331.	-56.4	1877.9	6.03	9.64	.0657	24.94	.164	SI
1360.	490.	3.	3.	-409192.	-50.	1603.2	8.04	9.54	.058	21.58	.125	SI
>1360.	0.	3.	3.	-330760.	-40.4	1295.9	8.04	9.54	.0433	21.58	.094	SI
1571.	211.	3.	5.	135329.	-24.5	1039.4	4.02	10.22	.0297	32.64	.097	SI
1740.	380.	3.	6.	-134150.	-16.4	525.6	8.04	9.54	.015	21.58	.032	SI
>1740.	0.	3.	6.	-236772.	-28.9	927.6	8.04	9.54	.0265	21.58	.057	SI
1958.	218.	3.	1.	275104.	-42.9	1429.7	6.03	9.64	.0444	24.94	.111	SI
2175.	435.	3.	7.	-343965.	-40.2	1345.8	8.04	9.65	.0456	21.69	.099	SI
>2175.	0.	3.	7.	-302632.	-35.4	1184.1	8.04	9.65	.0379	21.69	.082	SI
2382.	208.	3.	1.	242736.	-37.9	1261.5	6.03	9.64	.0364	24.94	.091	SI
2590.	415.	3.	7.	-258502.	-30.2	1011.4	8.04	9.65	.0296	21.69	.064	SI
>2590.	0.	3.	7.	-253075.	-29.6	990.2	8.04	9.65	.0286	21.69	.062	SI
2838.	248.	3.	1.	204729.	-32.	1064.	6.03	9.64	.0304	24.94	.076	SI
3035.	445.	3.	3.	-196362.	-24.	769.3	8.04	9.54	.022	21.58	.047	SI
>3035.	0.	3.	3.	-124138.	-15.2	486.4	8.04	9.54	.0139	21.58	.03	SI
3273.	238.	3.	5.	56205.	-10.2	431.7	4.02	10.22	.0123	32.64	.04	SI
3470.	435.	3.	8.	-55439.	-7.1	217.6	8.04	9.43	.0062	21.47	.013	SI
>3470.	0.	3.	8.	-55439.	-7.1	217.6	8.04	9.43	.0062	21.47	.013	SI
3667.	197.	3.	5.	55945.	-10.1	429.7	4.02	10.22	.0123	32.64	.04	SI
3905.	435.	3.	8.	-77024.	-9.8	302.3	8.04	9.43	.0086	21.47	.019	SI
>3905.	0.	3.	8.	-32117.	-4.1	126.1	8.04	9.43	.0036	21.47	.008	SI
4058.	152.	3.	5.	38505.	-7.	295.7	4.02	10.22	.0084	32.64	.028	SI
4210.	305.	3.	5.	-33894.	-6.1	260.3	4.02	10.22	.0074	32.64	.024	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-212947.	-36.7	1635.4	4.02	10.33	.0467	32.87	.154	SI
16.	16.	3.	1.	-192958.	-33.3	1481.9	4.02	10.33	.0423	32.87	.139	SI
41.	41.	3.	1.	-102329.	-17.7	785.9	4.02	10.33	.0225	32.87	.074	SI
208.	208.	3.	1.	272555.	-42.5	1416.5	6.03	9.64	.0438	24.94	.109	SI
415.	415.	3.	3.	-266699.	-32.6	1044.9	8.04	9.54	.0314	21.58	.068	SI
> 415.	0.	3.	3.	-204264.	-24.9	800.3	8.04	9.54	.0229	21.58	.049	SI
622.	207.	3.	5.	178351.	-32.3	1369.9	4.02	10.22	.0391	32.64	.128	SI
870.	455.	3.	6.	-242771.	-29.6	951.1	8.04	9.54	.0272	21.58	.059	SI
> 870.	0.	3.	6.	-333922.	-40.8	1308.3	8.04	9.54	.0439	21.58	.095	SI
1092.	222.	3.	1.	313776.	-49.	1630.7	6.03	9.64	.054	24.94	.135	SI
1360.	490.	3.	3.	-355183.	-43.4	1391.6	8.04	9.54	.0479	21.58	.103	SI
>1360.	0.	3.	3.	-280874.	-34.3	1100.4	8.04	9.54	.034	21.58	.073	SI

1571.	211.	3.	5.	116819.	-21.2	897.3	4.02	10.22	.0256	32.64	.084	SI
1740.	380.	3.	6.	-116430.	-14.2	456.2	8.04	9.54	.013	21.58	.028	SI
>1740.	0.	3.	6.	-207642.	-25.3	813.5	8.04	9.54	.0232	21.58	.05	SI
1958.	218.	3.	1.	238430.	-37.2	1239.1	6.03	9.64	.0354	24.94	.088	SI
2175.	435.	3.	7.	-296953.	-34.7	1161.9	8.04	9.65	.0368	21.69	.08	SI
>2175.	0.	3.	7.	-260904.	-30.5	1020.8	8.04	9.65	.0301	21.69	.065	SI
2382.	208.	3.	1.	210780.	-32.9	1095.4	6.03	9.64	.0313	24.94	.078	SI
2590.	415.	3.	7.	-222680.	-26.	871.3	8.04	9.65	.0249	21.69	.054	SI
>2590.	0.	3.	7.	-217982.	-25.5	852.9	8.04	9.65	.0244	21.69	.053	SI
2838.	248.	3.	1.	178823.	-27.9	929.4	6.03	9.64	.0266	24.94	.066	SI
3035.	445.	3.	3.	-172336.	-21.	675.2	8.04	9.54	.0193	21.58	.042	SI
>3035.	0.	3.	3.	-113979.	-13.9	446.6	8.04	9.54	.0128	21.58	.028	SI
3273.	238.	3.	5.	55729.	-10.1	428.	4.02	10.22	.0122	32.64	.04	SI
3470.	435.	3.	8.	-51327.	-6.6	201.4	8.04	9.43	.0058	21.47	.012	SI
>3470.	0.	3.	8.	-55439.	-7.1	217.6	8.04	9.43	.0062	21.47	.013	SI
3667.	197.	3.	5.	55697.	-10.1	427.8	4.02	10.22	.0122	32.64	.04	SI
3905.	435.	3.	8.	-73952.	-9.5	290.2	8.04	9.43	.0083	21.47	.018	SI
>3905.	0.	3.	8.	-35636.	-4.6	139.9	8.04	9.43	.004	21.47	.009	SI
4058.	152.	3.	5.	38640.	-7.	296.8	4.02	10.22	.0085	32.64	.028	SI
4210.	305.	3.	5.	-33668.	-6.1	258.6	4.02	10.22	.0074	32.64	.024	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-207315.	-35.8	1592.1	4.02	10.33	.0455	32.87	.15	SI
16.	16.	3.	1.	-187706.	-32.4	1441.6	4.02	10.33	.0412	32.87	.135	SI
41.	41.	3.	1.	-98798.	-17.	758.8	4.02	10.33	.0217	32.87	.071	SI
208.	208.	3.	1.	268258.	-41.9	1394.2	6.03	9.64	.0427	24.94	.106	SI
415.	415.	3.	3.	-263251.	-32.1	1031.4	8.04	9.54	.0308	21.58	.066	SI
> 415.	0.	3.	3.	-200993.	-24.5	787.2	8.04	9.54	.0225	21.58	.049	SI
622.	207.	3.	5.	175055.	-31.7	1344.6	4.02	10.22	.0384	32.64	.125	SI
870.	455.	3.	6.	-239250.	-29.2	937.3	8.04	9.54	.0268	21.58	.058	SI
> 870.	0.	3.	6.	-328414.	-40.1	1286.7	8.04	9.54	.0429	21.58	.093	SI
1092.	222.	3.	1.	308557.	-48.2	1603.6	6.03	9.64	.0527	24.94	.131	SI
1360.	490.	3.	3.	-348535.	-42.6	1365.5	8.04	9.54	.0467	21.58	.101	SI
>1360.	0.	3.	3.	-270936.	-33.1	1061.5	8.04	9.54	.0322	21.58	.069	SI
1571.	211.	3.	5.	114468.	-20.8	879.2	4.02	10.22	.0251	32.64	.082	SI
1740.	380.	3.	6.	-114462.	-14.	448.4	8.04	9.54	.0128	21.58	.028	SI
>1740.	0.	3.	6.	-205854.	-25.1	806.5	8.04	9.54	.023	21.58	.05	SI
1958.	218.	3.	1.	234300.	-36.6	1217.7	6.03	9.64	.0348	24.94	.087	SI
2175.	435.	3.	7.	-290375.	-34.	1136.1	8.04	9.65	.0356	21.69	.077	SI
>2175.	0.	3.	7.	-255233.	-29.9	998.6	8.04	9.65	.029	21.69	.063	SI
2382.	208.	3.	1.	207323.	-32.4	1077.5	6.03	9.64	.0308	24.94	.077	SI
2590.	415.	3.	7.	-218953.	-25.6	856.7	8.04	9.65	.0245	21.69	.053	SI
>2590.	0.	3.	7.	-214696.	-25.1	840.	8.04	9.65	.024	21.69	.052	SI
2838.	248.	3.	1.	175729.	-27.4	913.3	6.03	9.64	.0261	24.94	.065	SI
3035.	445.	3.	3.	-168713.	-20.6	661.	8.04	9.54	.0189	21.58	.041	SI
>3035.	0.	3.	3.	-113395.	-13.8	444.3	8.04	9.54	.0127	21.58	.027	SI
3273.	238.	3.	5.	55658.	-10.1	427.5	4.02	10.22	.0122	32.64	.04	SI
3470.	435.	3.	8.	-51470.	-6.6	202.	8.04	9.43	.0058	21.47	.012	SI
>3470.	0.	3.	8.	-49813.	-6.4	195.5	8.04	9.43	.0056	21.47	.012	SI
3667.	197.	3.	5.	55862.	-10.1	429.1	4.02	10.22	.0123	32.64	.04	SI
3905.	435.	3.	8.	-72910.	-9.3	286.2	8.04	9.43	.0082	21.47	.018	SI
>3905.	0.	3.	8.	-36978.	-4.7	145.1	8.04	9.43	.0041	21.47	.009	SI
4058.	152.	3.	5.	38665.	-7.	297.	4.02	10.22	.0085	32.64	.028	SI
4210.	305.	3.	5.	-33668.	-6.1	258.6	4.02	10.22	.0074	32.64	.024	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
2	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
3	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	3d16 +2d16
4	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
5	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
6	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	2d16 +3d16
7	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16
8	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 92 - Travata Tc004 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Eud=.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)= 4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AcIs=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A752	3	3	3	0	400.	350.	10.	1.3	2.025	45.75
2	A781	3	3	3	0	555.	515.	13.875	1.3	3.324	75.121

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-396226.	-.059	.147	-546809.	-.35	2.278	3.	.133	1.38	SI
0.	0.	3.	1.	226012.	-.033	.083	546809.	-.35	2.278	3.	.133	2.419	SI
85.	85.	3.	1.	270083.	-.039	.1	546809.	-.35	2.278	3.	.133	2.025	SI
315.	315.	3.	2.	-205919.	-.023	.039	-1039699.	-.35	1.395	3.	.201	5.049	SI
315.	315.	3.	2.	218121.	-.028	.08	547697.	-.35	2.388	3.	.128	2.511	SI
359.	359.	3.	3.	199927.	-.02	.038	1051660.	-.35	1.781	3.	.164	5.26	SI
400.	400.	3.	3.	-425562.	-.043	.08	-1051660.	-.35	1.781	3.	.164	2.471	SI
400.	400.	3.	3.	156474.	-.015	.029	1051660.	-.35	1.781	3.	.164	6.721	SI
> 400.	0.	3.	3.	-306907.	-.031	.058	-1051660.	-.35	1.781	3.	.164	3.427	SI
400.	0.	3.	3.	102671.	-.01	.019	1051660.	-.35	1.781	3.	.164	10.24	SI
441.	41.	3.	2.	-281112.	-.032	.053	-1039699.	-.35	1.395	3.	.201	3.699	SI
441.	41.	3.	2.	131464.	-.017	.048	547697.	-.35	2.388	3.	.128	4.166	SI
792.	392.	3.	1.	-48086.	-.007	.018	-546809.	-.35	2.278	3.	.133	11.37	SI
792.	392.	3.	1.	164486.	-.024	.061	546809.	-.35	2.278	3.	.133	3.324	SI
955.	555.	3.	1.	-286645.	-.042	.106	-546809.	-.35	2.278	3.	.133	1.908	SI
955.	555.	3.	1.	117683.	-.017	.043	546809.	-.35	2.278	3.	.133	4.646	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-2235.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	7020.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	3.	-2789.	4455.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3109.	4455.	24411.	24577.	1.01	9.	1.75	SI
400.	400.	3.	-7333.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	400.	3.	1194.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	3.	-1491.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	3.	4444.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-1574.	4455.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-1800.	4455.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	3.	-4141.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	3.	1588.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-132634.	-24.	1018.7	4.02	10.22	.0291	32.64	.095	SI
41.	41.	3.	1.	-65526.	-11.9	503.3	4.02	10.22	.0144	32.64	.047	SI
200.	200.	3.	1.	193168.	-35.	1483.7	4.02	10.22	.0424	32.64	.138	SI
400.	400.	3.	3.	-208760.	-26.7	819.3	8.04	9.43	.0234	21.47	.05	SI
> 400.	0.	3.	3.	-135511.	-17.3	531.8	8.04	9.43	.0152	21.47	.033	SI
704.	304.	3.	1.	120287.	-21.8	923.9	4.02	10.22	.0264	32.64	.086	SI
955.	555.	3.	1.	-125371.	-22.7	962.9	4.02	10.22	.0275	32.64	.09	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
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16.	16.	3.	1.	-105228.	-19.1	808.2	4.02	10.22	.0231	32.64	.075	SI
41.	41.	3.	1.	-48018.	-8.7	368.8	4.02	10.22	.0105	32.64	.034	SI
200.	200.	3.	1.	169998.	-30.8	1305.7	4.02	10.22	.0373	32.64	.122	SI
400.	400.	3.	3.	-177876.	-22.7	698.1	8.04	9.43	.0199	21.47	.043	SI
> 400.	0.	3.	3.	-125965.	-16.1	494.4	8.04	9.43	.0141	21.47	.03	SI
661.	261.	3.	1.	119795.	-21.7	920.1	4.02	10.22	.0263	32.64	.086	SI
955.	555.	3.	1.	-110956.	-20.1	852.2	4.02	10.22	.0243	32.64	.079	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-107119.	-19.4	822.8	4.02	10.22	.0235	32.64	.077	SI
41.	41.	3.	1.	-47158.	-8.5	362.2	4.02	10.22	.0103	32.64	.034	SI
200.	200.	3.	1.	167414.	-30.3	1285.9	4.02	10.22	.0367	32.64	.12	SI
400.	400.	3.	3.	-172084.	-22.	675.4	8.04	9.43	.0193	21.47	.041	SI
> 400.	0.	3.	3.	-125282.	-16.	491.7	8.04	9.43	.014	21.47	.03	SI
661.	261.	3.	1.	119342.	-21.6	916.6	4.02	10.22	.0262	32.64	.085	SI
955.	555.	3.	1.	-106449.	-19.3	817.6	4.02	10.22	.0234	32.64	.076	SI

ARMATURE LONGITUDINALI (%=100\*Af/AcIs - AcIs=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 93 - Travata Tc005 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AcIs=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A753	3	3	3	0	400.	350.	10.	1.3	1.34	30.274
2	A782	3	3	3	0	555.	515.	13.875	1.3	4.962	112.131

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	16
7.	SLU con SISMAY PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-454204.	-.068	.168	-546809.	-.35	2.278	3.	.133	1.204	SI
0.	0.	3.	1.	153074.	-.022	.056	546809.	-.35	2.278	3.	.133	3.572	SI
200.	200.	3.	1.	408151.	-.06	.151	546809.	-.35	2.278	3.	.133	1.34	SI
277.	277.	3.	1.	-16041.	-.002	.006	-546809.	-.35	2.278	3.	.133	34.09	SI
315.	315.	3.	2.	-146278.	-.016	.028	-1039699.	-.35	1.395	3.	.201	7.108	SI
315.	315.	3.	2.	294468.	-.038	.109	547697.	-.35	2.388	3.	.128	1.86	SI

359.	359.	3.	3.	224828.	-.022	.042	1051660.	!-.35	1.781	3.	.164	4.678	SI
400.	400.	3.	3.	-399120.	-.04	.075	-1051660.	!-.35	1.781	3.	.164	2.635	SI
400.	400.	3.	3.	131576.	-.013	.025	1051660.	!-.35	1.781	3.	.164	7.993	SI
> 400.	0.	3.	3.	-256072.	-.026	.048	-1051660.	!-.35	1.781	3.	.164	4.107	SI
400.	0.	3.	3.	77070.	-.008	.014	1051660.	!-.35	1.781	3.	.164	13.65	SI
441.	41.	3.	2.	-237176.	-.027	.045	-1039699.	!-.35	1.395	3.	.201	4.384	SI
441.	41.	3.	2.	88701.	-.011	.033	547697.	!-.35	2.388	3.	.128	6.175	SI
748.	348.	3.	1.	-11179.	-.002	.004	-546809.	!-.35	2.278	3.	.133	48.91	SI
880.	480.	3.	1.	110195.	-.016	.041	546809.	!-.35	2.278	3.	.133	4.962	SI
955.	555.	3.	1.	-224508.	-.032	.083	-546809.	!-.35	2.278	3.	.133	2.436	SI
955.	555.	3.	1.	101945.	-.014	.038	546809.	!-.35	2.278	3.	.133	5.364	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1061.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	8361.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	3.	-1870.	4455.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-2338.	4455.	24411.	24577.	1.01	9.	1.75	SI
400.	400.	3.	-8506.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	3.	-1979.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	3.	3907.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-2031.	4455.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-2172.	4455.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	3.	-3636.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	3.	2122.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-289442.	!-52.5	2223.1	4.02	10.22	.07	32.64	.228	SI
16.	16.	3.	1.	-265031.	!-48.	2035.7	4.02	10.22	.061	32.64	.199	SI
41.	41.	3.	1.	-154350.	!-28.	1185.5	4.02	10.22	.0339	32.64	.111	SI
200.	200.	3.	1.	293869.	!-53.3	2257.1	4.02	10.22	.0716	32.64	.234	SI
400.	400.	3.	3.	-226517.	!-28.9	889.	8.04	9.43	.0254	21.47	.055	SI
> 400.	0.	3.	3.	-98501.	!-12.6	386.6	8.04	9.43	.011	21.47	.024	SI
704.	304.	3.	1.	75271.	!-13.6	578.1	4.02	10.22	.0165	32.64	.054	SI
955.	555.	3.	1.	-85252.	!-15.5	654.8	4.02	10.22	.0187	32.64	.061	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-229307.	!-41.6	1761.3	4.02	10.22	.0503	32.64	.164	SI
16.	16.	3.	1.	-209095.	!-37.9	1606.	4.02	10.22	.0459	32.64	.15	SI
41.	41.	3.	1.	-117455.	!-21.3	902.2	4.02	10.22	.0258	32.64	.084	SI
200.	200.	3.	1.	248109.	!-45.	1905.7	4.02	10.22	.0548	32.64	.179	SI
400.	400.	3.	3.	-191165.	!-24.4	750.3	8.04	9.43	.0214	21.47	.046	SI
> 400.	0.	3.	3.	-89423.	!-11.4	351.	8.04	9.43	.01	21.47	.022	SI
704.	304.	3.	1.	74545.	!-13.5	572.6	4.02	10.22	.0164	32.64	.053	SI
955.	555.	3.	1.	-67736.	!-12.3	520.3	4.02	10.22	.0149	32.64	.049	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-217634.	!-39.5	1671.6	4.02	10.22	.0478	32.64	.156	SI
16.	16.	3.	1.	-198012.	!-35.9	1520.9	4.02	10.22	.0435	32.64	.142	SI
41.	41.	3.	1.	-109045.	!-19.8	837.6	4.02	10.22	.0239	32.64	.078	SI
200.	200.	3.	1.	243405.	!-44.1	1869.5	4.02	10.22	.0534	32.64	.174	SI
400.	400.	3.	3.	-187928.	!-24.	737.6	8.04	9.43	.0211	21.47	.045	SI
> 400.	0.	3.	3.	-90006.	!-11.5	353.2	8.04	9.43	.0101	21.47	.022	SI
704.	304.	3.	1.	74828.	!-13.6	574.7	4.02	10.22	.0164	32.64	.054	SI
955.	555.	3.	1.	-61979.	!-11.2	476.	4.02	10.22	.0136	32.64	.044	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 94 - Travata Tc006 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%



ACCIAIO: B450C; ftk=5175.; fyk=4500.; Es=2100000.;  
gs =1.15; fyd=3913.; ftd(k\*fyd)=4500.; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesercizio)= 23.8

ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15

FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A754	3	3	3	0	400.	350.	10.	1.3	2.068	46.73
2	A783	3	3	3	0	555.	515.	13.875	1.3	3.615	81.689

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	Ve
> 0.	0.	3.	-236832.	-.034	.087	-546809.	-.35	2.278	3.	.133	2.309	SI
0.	0.	3.	72920.	-.01	.027	546809.	-.35	2.278	3.	.133	7.499	SI
123.	123.	3.	-4809.	-.001	.002	-546809.	-.35	2.278	3.	.133	113.7	SI
200.	200.	3.	264419.	-.038	.098	546809.	-.35	2.278	3.	.133	2.068	SI
315.	315.	3.	-108808.	-.012	.021	-1039699.	-.35	1.395	3.	.201	9.555	SI
315.	315.	3.	180143.	-.023	.066	547697.	-.35	2.388	3.	.128	3.04	SI
359.	359.	3.	126097.	-.012	.024	1051660.	-.35	1.781	3.	.164	8.34	SI
400.	400.	3.	-277112.	-.028	.052	-1051660.	-.35	1.781	3.	.164	3.795	SI
400.	400.	3.	53561.	-.005	.01	1051660.	-.35	1.781	3.	.164	19.64	SI
> 400.	0.	3.	-331107.	-.033	.062	-1051660.	-.35	1.781	3.	.164	3.176	SI
400.	0.	3.	73309.	-.007	.014	1051660.	-.35	1.781	3.	.164	14.35	SI
441.	41.	3.	-309286.	-.035	.059	-1039699.	-.35	1.395	3.	.201	3.362	SI
441.	41.	3.	86766.	-.011	.032	547697.	-.35	2.388	3.	.128	6.312	SI
661.	261.	3.	-2020.	0.	.001	-546809.	-.35	2.278	3.	.133	270.7	SI
939.	539.	3.	151260.	-.022	.056	546809.	-.35	2.278	3.	.133	3.615	SI
955.	555.	3.	-204657.	-.029	.075	-546809.	-.35	2.278	3.	.133	2.672	SI
955.	555.	3.	151260.	-.022	.056	546809.	-.35	2.278	3.	.133	3.615	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-2369.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6851.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	3.	-2874.	4455.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3169.	4455.	24411.	24577.	1.01	9.	1.75	SI
400.	400.	3.	-7285.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	400.	3.	1233.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	3.	-1989.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	3.	3898.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-2040.	4455.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-2182.	4455.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	3.	-3645.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	3.	2113.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
16.	16.	3.	-139337.	-25.3	1070.2	4.02	10.22	.0306	32.64	.1	SI
41.	41.	3.	-73354.	-13.3	563.4	4.02	10.22	.0161	32.64	.053	SI
200.	200.	3.	190987.	-34.6	1466.9	4.02	10.22	.0419	32.64	.137	SI
400.	400.	3.	-186455.	-23.8	731.8	8.04	9.43	.0209	21.47	.045	SI

> 400.	0.	3.	3.	-156050.!	-19.9!	612.5!	8.04	9.43	.0175	21.47	.038	SI
748.	348.	3.	1.	75139.!	-13.6!	577.1!	4.02	10.22	.0165	32.64	.054	SI
955.	555.	3.	1.	-65366.	-11.8!	502.1!	4.02	10.22	.0143	32.64	.047	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-113141.	-20.5!	869.	4.02	10.22	.0248	32.64	.081	SI
41.	41.	3.	1.	-57550.	-10.4!	442.	4.02	10.22	.0126	32.64	.041	SI
200.	200.	3.	1.	164018.!	-29.7!	1259.8!	4.02	10.22	.036	32.64	.117	SI
400.	400.	3.	3.	-159619.!	-20.4!	626.5!	8.04	9.43	.0179	21.47	.038	SI
> 400.	0.	3.	3.	-134652.!	-17.2!	528.5!	8.04	9.43	.0151	21.47	.032	SI
748.	348.	3.	1.	74552.!	-13.5!	572.6!	4.02	10.22	.0164	32.64	.053	SI
955.	555.	3.	1.	-65366.	-11.8!	502.1!	4.02	10.22	.0143	32.64	.047	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
16.	16.	3.	1.	-108734.	-19.7!	835.2!	4.02	10.22	.0239	32.64	.078	SI
41.	41.	3.	1.	-54509.	-9.9!	418.7!	4.02	10.22	.012	32.64	.039	SI
200.	200.	3.	1.	160656.!	-29.1!	1234.!	4.02	10.22	.0353	32.64	.115	SI
400.	400.	3.	3.	-156652.!	-20.	614.8!	8.04	9.43	.0176	21.47	.038	SI
> 400.	0.	3.	3.	-130240.!	-16.6!	511.2!	8.04	9.43	.0146	21.47	.031	SI
748.	348.	3.	1.	75050.!	-13.6!	576.4!	4.02	10.22	.0165	32.64	.054	SI
955.	555.	3.	1.	-65366.	-11.8!	502.1!	4.02	10.22	.0143	32.64	.047	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 95 - Travata Tc007 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A755	3	3	3	0	410.	370.	10.25	1.3	2.373	53.623
2	A784	3	3	3	0	555.	515.	13.875	1.3	4.544	102.67

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-204592.	-.029	.075	-546809.	-.35	2.278	3.	.133	2.673	SI
200.	200.	3.	1.	230429.	-.033	.085	546809.	-.35	2.278	3.	.133	2.373	SI
325.	325.	3.	2.	-59932.	-.007	.011	-1039699.	-.35	1.395	3.	.201	17.35	SI
325.	325.	3.	2.	127809.	-.016	.047	547697.	-.35	2.388	3.	.128	4.285	SI
369.	369.	3.	3.	62009.	-.006	.012	1051660.	-.35	1.781	3.	.164	16.96	SI
394.	394.	3.	3.	15293.	-.001	.003	1051660.	-.35	1.781	3.	.164	68.77	SI
410.	410.	3.	3.	-227450.	-.023	.043	-1051660.	-.35	1.781	3.	.164	4.624	SI
> 410.	0.	3.	3.	-278721.	-.028	.052	-1051660.	-.35	1.781	3.	.164	3.773	SI
410.	0.	3.	3.	75885.	-.007	.014	1051660.	-.35	1.781	3.	.164	13.86	SI
451.	41.	3.	2.	-258949.	-.029	.049	-1039699.	-.35	1.395	3.	.201	4.015	SI
451.	41.	3.	2.	89704.	-.011	.033	547697.	-.35	2.388	3.	.128	6.106	SI
627.	217.	3.	1.	-28673.	-.004	.011	-546809.	-.35	2.278	3.	.133	19.07	SI
890.	480.	3.	1.	120349.	-.017	.044	546809.	-.35	2.278	3.	.133	4.544	SI
965.	555.	3.	1.	-197390.	-.028	.073	-546809.	-.35	2.278	3.	.133	2.77	SI
965.	555.	3.	1.	116233.	-.017	.043	546809.	-.35	2.278	3.	.133	4.704	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1837.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6259.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2522.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2522.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-6325.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	1446.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	-1984.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	3903.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-2035.	4455.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-2177.	4455.	24411.	24577.	1.01	9.	1.75	SI
965.	555.	3.	-3640.	3948.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	2118.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-129189.	-23.4	992.3	4.02	10.22	.0284	32.64	.093	SI
31.	31.	3.	1.	-90944.	-16.5	698.5	4.02	10.22	.02	32.64	.065	SI
200.	200.	3.	1.	166712.	-30.2	1280.5	4.02	10.22	.0366	32.64	.119	SI
410.	410.	3.	3.	-164453.	-21.	645.4	8.04	9.43	.0184	21.47	.04	SI
> 410.	0.	3.	3.	-127052.	-16.2	498.6	8.04	9.43	.0142	21.47	.031	SI
758.	348.	3.	1.	75155.	-13.6	577.2	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	1.	-60980.	-11.1	468.4	4.02	10.22	.0134	32.64	.044	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-107381.	-19.5	824.8	4.02	10.22	.0236	32.64	.077	SI
31.	31.	3.	1.	-74569.	-13.5	572.7	4.02	10.22	.0164	32.64	.053	SI
200.	200.	3.	1.	143796.	-26.1	1104.5	4.02	10.22	.0316	32.64	.103	SI
410.	410.	3.	3.	-142411.	-18.2	558.9	8.04	9.43	.016	21.47	.034	SI
> 410.	0.	3.	3.	-106470.	-13.6	417.9	8.04	9.43	.0119	21.47	.026	SI
714.	304.	3.	1.	74641.	-13.5	573.3	4.02	10.22	.0164	32.64	.053	SI
965.	555.	3.	1.	-65366.	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-103188.	-18.7	792.6	4.02	10.22	.0226	32.64	.074	SI
31.	31.	3.	1.	-71072.	-12.9	545.9	4.02	10.22	.0156	32.64	.051	SI
200.	200.	3.	1.	142142.	-25.8	1091.8	4.02	10.22	.0312	32.64	.102	SI
410.	410.	3.	3.	-140411.	-17.9	551.1	8.04	9.43	.0157	21.47	.034	SI
> 410.	0.	3.	3.	-102447.	-13.1	402.1	8.04	9.43	.0115	21.47	.025	SI
714.	304.	3.	1.	74946.	-13.6	575.6	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3.	1.	-65366.	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

ARMATURE LONGITUDINALI (%=100\*Af/AcIs - AcIs=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 96 - Travata Tc008 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A756	3	3	3	0	410.	370.	10.25	1.3	3.027	68.411
2	A785	3	3	3	0	555.	515.	13.875	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	16.
7.	SLU con SISMAY PRINC16	16.

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-208594.	-.03	.077	-546809.	-.35	2.278	3.	.133	2.621	SI
0.	0.	3.	68020.	-.01	.025	546809.	-.35	2.278	3.	.133	8.039	SI
117.	117.	3.	-23299.	-.003	.009	-546809.	-.35	2.278	3.	.133	23.47	SI
200.	200.	3.	180617.	-.026	.067	546809.	-.35	2.278	3.	.133	3.027	SI
325.	325.	3.	-96301.	-.011	.018	-1039699.	-.35	1.395	3.	.201	10.8	SI
325.	325.	3.	139441.	-.018	.051	547697.	-.35	2.388	3.	.128	3.928	SI
369.	369.	3.	111321.	-.011	.021	1051660.	-.35	1.781	3.	.164	9.447	SI
410.	410.	3.	-219637.	-.022	.041	-1051660.	-.35	1.781	3.	.164	4.788	SI
410.	410.	3.	70021.	-.007	.013	1051660.	-.35	1.781	3.	.164	15.02	SI
> 410.	0.	3.	-210598.	-.021	.04	-1051660.	-.35	1.781	3.	.164	4.994	SI
410.	0.	3.	47948.	-.005	.009	1051660.	-.35	1.781	3.	.164	21.93	SI
451.	41.	3.	-193424.	-.022	.037	-1039699.	-.35	1.395	3.	.201	5.375	SI
451.	41.	3.	65739.	-.008	.024	547697.	-.35	2.388	3.	.128	8.331	SI
846.	436.	3.	97511.	-.014	.036	546809.	-.35	2.278	3.	.133	5.608	SI
965.	555.	3.	-177122.	-.025	.065	-546809.	-.35	2.278	3.	.133	3.087	SI
965.	555.	3.	78157.	-.011	.029	546809.	-.35	2.278	3.	.133	6.996	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-2252.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	5989.	3948.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-2833.	4455.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-2833.	4455.	24411.	24577.	1.01	9.	1.75
410.	410.	3.	-5836.	3948.	28335.	14044.	1.01	9.	1.
410.	410.	3.	2017.	3948.	28335.	14044.	1.01	9.	1.
> 410.	0.	3.	-1980.	3948.	28335.	14044.	1.01	9.	1.
410.	0.	3.	3907.	3948.	28335.	14044.	1.01	9.	1.
451.	41.	3.	-2032.	4455.	28335.	14044.	1.01	9.	1.
495.	85.	3.	-2173.	4455.	24411.	24577.	1.01	9.	1.75
965.	555.	3.	-3636.	3948.	28335.	14044.	1.01	9.	1.
965.	555.	3.	2122.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-125777.	-22.8	966.1	4.02	10.22	.0276	32.64	.09	SI
15.	15.	3.	-110329.	-20.	847.4	4.02	10.22	.0242	32.64	.079	SI

31.	31.	3.	1.	-77241.	-14.	593.3	4.02	10.22	.017	32.64	.055	SI
200.	200.	3.	1.	132263.	-24.	1015.9	4.02	10.22	.029	32.64	.095	SI
410.	410.	3.	3.	-111552.	-14.3	437.8	8.04	9.43	.0125	21.47	.027	SI
> 410.	0.	3.	3.	-99395.	-12.7	390.1	8.04	9.43	.0111	21.47	.024	SI
714.	304.	3.	1.	74735.	-13.5	574.	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3.	1.	-74125.	-13.4	569.3	4.02	10.22	.0163	32.64	.053	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-99733.	-18.1	766.	4.02	10.22	.0219	32.64	.071	SI
15.	15.	3.	1.	-86753.	-15.7	666.3	4.02	10.22	.019	32.64	.062	SI
31.	31.	3.	1.	-58951.	-10.7	452.8	4.02	10.22	.0129	32.64	.042	SI
200.	200.	3.	1.	115097.	-20.9	884.	4.02	10.22	.0253	32.64	.082	SI
410.	410.	3.	3.	-93937.	-12.	368.7	8.04	9.43	.0105	21.47	.023	SI
> 410.	0.	3.	3.	-86096.	-11.	337.9	8.04	9.43	.0097	21.47	.021	SI
714.	304.	3.	1.	75195.	-13.6	577.6	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3.	1.	-65366.	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-80633.	-14.6	619.3	4.02	10.22	.0177	32.64	.058	SI
31.	31.	3.	1.	-53749.	-9.7	412.8	4.02	10.22	.0118	32.64	.039	SI
200.	200.	3.	1.	112595.	-20.4	864.8	4.02	10.22	.0247	32.64	.081	SI
410.	410.	3.	3.	-93264.	-11.9	366.	8.04	9.43	.0105	21.47	.022	SI
> 410.	0.	3.	3.	-84637.	-10.8	332.2	8.04	9.43	.0095	21.47	.02	SI
714.	304.	3.	1.	74681.	-13.5	573.6	4.02	10.22	.0164	32.64	.053	SI
965.	555.	3.	1.	-65366.	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 97 - Travata Tc009 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	λmax
1	A757	3	3	3	0	410.	370.	10.25	1.3	5.	112.985
2	A786	3	3	3	0	555.	515.	13.875	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	1.
7.	SLU con SISMAY PRINC16	2.

  

RARE		FREQUENTI		QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	
15.	Rara	1.	18.	Frequente	1.	
16.	Rara VentoX	2.	19.	Frequente VentoX	2.	
17.	Rara VentoY	2.	20.	Frequente VentoY	2.	
				21.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-174661.	-.025	.064	-546809.	-.35	2.278	3.	.133	3.131	SI
0.	0.	3.	1.	72234.	-.01	.027	546809.	-.35	2.278	3.	.133	7.57	SI
242.	242.	3.	1.	-9360.	-.001	.003	-546809.	-.35	2.278	3.	.133	58.42	SI
325.	325.	3.	2.	-75294.	-.008	.014	-1039699.	-.35	1.395	3.	.201	13.81	SI
325.	325.	3.	2.	114599.	-.014	.042	547697.	-.35	2.388	3.	.128	4.779	SI
369.	369.	3.	3.	128979.	-.013	.024	1051660.	-.35	1.781	3.	.164	8.154	SI
394.	394.	3.	3.	135689.	-.013	.025	1051660.	-.35	1.781	3.	.164	7.75	SI
410.	410.	3.	3.	-131437.	-.013	.025	-1051660.	-.35	1.781	3.	.164	8.001	SI
410.	410.	3.	3.	135689.	-.013	.025	1051660.	-.35	1.781	3.	.164	7.75	SI
> 410.	0.	3.	3.	-166022.	-.016	.031	-1051660.	-.35	1.781	3.	.164	6.334	SI
410.	0.	3.	3.	76002.	-.007	.014	1051660.	-.35	1.781	3.	.164	13.84	SI
451.	41.	3.	2.	-150611.	-.017	.029	-1039699.	-.35	1.395	3.	.201	6.903	SI
451.	41.	3.	2.	89497.	-.011	.033	547697.	-.35	2.388	3.	.128	6.12	SI
539.	129.	3.	2.	98852.	-.012	.036	547697.	-.35	2.388	3.	.128	5.541	SI
583.	173.	3.	1.	-14303.	-.002	.005	-546809.	-.35	2.278	3.	.133	38.23	SI
965.	555.	3.	1.	-201508.	-.029	.074	-546809.	-.35	2.278	3.	.133	2.714	SI
965.	555.	3.	1.	45299.	-.006	.017	546809.	-.35	2.278	3.	.133	12.07	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-3532.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	1.	4607.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	-3708.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	-3708.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	1.	-4615.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	1.	3407.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	1.	-1972.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	0.	3.	1.	3915.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	1.	-2023.	4455.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	1.	-2165.	4455.	24411.	24577.	1.01	9.	1.75	SI
965.	555.	3.	1.	-3628.	3948.	28335.	14044.	1.01	9.	1.	SI
965.	555.	3.	1.	2130.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-77610.	-14.1	596.1	4.02	10.22	.017	32.64	.056	SI
15.	15.	3.	1.	-72216.	-13.1	554.7	4.02	10.22	.0158	32.64	.052	SI
325.	325.	3.	2.	49356.	-8.1	379.1	4.02	10.43	.0108	33.07	.036	SI
410.	410.	3.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	3.	35281.	-4.5	138.5	8.04	9.43	.004	21.47	.008	SI
> 410.	0.	3.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
627.	217.	3.	1.	74827.	-13.6	574.7	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3.	1.	-110338.	-20.	847.5	4.02	10.22	.0242	32.64	.079	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-57683.	-10.5	443.1	4.02	10.22	.0127	32.64	.041	SI
15.	15.	3.	1.	-53133.	-9.6	408.1	4.02	10.22	.0117	32.64	.038	SI
31.	31.	3.	1.	-43386.	-7.9	333.2	4.02	10.22	.0095	32.64	.031	SI
242.	242.	3.	1.	34517.	-6.3	265.1	4.02	10.22	.0076	32.64	.025	SI
410.	410.	3.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3.	3.	4667.	-.6	18.3	8.04	9.43	.0005	21.47	.001	SI
> 410.	0.	3.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
671.	261.	3.	1.	74852.	-13.6	573.6	4.02	10.22	.0164	32.64	.053	SI
965.	555.	3.	1.	-87272.	-15.8	670.3	4.02	10.22	.0192	32.64	.063	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-51740.	-9.4	397.4	4.02	10.22	.0114	32.64	.037	SI
15.	15.	3.	1.	-47418.	-8.6	364.2	4.02	10.22	.0104	32.64	.034	SI
31.	31.	3.	1.	-38162.	-6.9	293.1	4.02	10.22	.0084	32.64	.027	SI
242.	242.	3.	1.	34023.	-6.2	261.3	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
> 410.	0.	3.	3.	-65366.	-8.4	256.5	8.04	9.43	.0073	21.47	.016	SI
671.	261.	3.	1.	74677.	-13.5	573.6	4.02	10.22	.0164	32.64	.053	SI
965.	555.	3.	1.	-80130.	-14.5	615.5	4.02	10.22	.0176	32.64	.057	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 98 - Travata Tc010 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A758	3	3	3	0	410.	370.	10.25	1.3	5.	112.985
2	A787	3	3	3	0	555.	515.	13.875	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAX PRINC16	16.
7.	SLU con SISMAX PRINC16	16.

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-179468.	-.026	.066	-546809.	-.35	2.278	3.	.133	3.047	SI
0.	0.	3. 1.	87880.	-.012	.032	546809.	-.35	2.278	3.	.133	6.222	SI
242.	242.	3. 1.	-18464.	-.003	.007	-546809.	-.35	2.278	3.	.133	29.62	SI
325.	325.	3. 2.	-92347.	-.01	.017	-1039699.	-.35	1.395	3.	.201	11.26	SI
325.	325.	3. 2.	113556.	-.014	.042	547697.	-.35	2.388	3.	.128	4.823	SI
369.	369.	3. 3.	128427.	-.013	.024	1051660.	-.35	1.781	3.	.164	8.189	SI
394.	394.	3. 3.	135417.	-.013	.025	1051660.	-.35	1.781	3.	.164	7.766	SI
410.	410.	3. 3.	-153894.	-.015	.029	-1051660.	-.35	1.781	3.	.164	6.834	SI
410.	410.	3. 3.	135417.	-.013	.025	1051660.	-.35	1.781	3.	.164	7.766	SI
> 410.	0.	3. 3.	-187659.	-.019	.035	-1051660.	-.35	1.781	3.	.164	5.604	SI
410.	0.	3. 3.	70872.	-.007	.013	1051660.	-.35	1.781	3.	.164	14.84	SI
451.	41.	3. 2.	-171289.	-.019	.032	-1039699.	-.35	1.395	3.	.201	6.07	SI
451.	41.	3. 2.	85596.	-.011	.031	547697.	-.35	2.388	3.	.128	6.399	SI
539.	129.	3. 2.	97091.	-.012	.036	547697.	-.35	2.388	3.	.128	5.641	SI
583.	173.	3. 1.	-24852.	-.003	.009	-546809.	-.35	2.278	3.	.133	22.	SI
965.	555.	3. 1.	-191720.	-.028	.071	-546809.	-.35	2.278	3.	.133	2.852	SI
965.	555.	3. 1.	65038.	-.009	.024	546809.	-.35	2.278	3.	.133	8.408	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-3533.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	4606.	3948.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-3709.	4455.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-3709.	4455.	24411.	24577.	1.01	9.	1.75
410.	410.	3.	-4616.	3948.	28335.	14044.	1.01	9.	1.
410.	410.	3.	3406.	3948.	28335.	14044.	1.01	9.	1.
> 410.	0.	3.	-1975.	3948.	28335.	14044.	1.01	9.	1.
410.	0.	3.	3912.	3948.	28335.	14044.	1.01	9.	1.
451.	41.	3.	-2027.	4455.	28335.	14044.	1.01	9.	1.
495.	85.	3.	-2168.	4455.	24411.	24577.	1.01	9.	1.75

965. | 555. | 3. | -3631. | 3948. | 28335. | 14044. | 1.01 | 9. | 1. | SI |  
 965. | 555. | 3. | 2127. | 3948. | 28335. | 14044. | 1.01 | 9. | 1. | SI |

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-71078.!	-12.9!	545.9!	4.02	10.22	.0156	32.64	.051	SI
15.	15.	3. 1.	-65806.	-11.9	505.4	4.02	10.22	.0144	32.64	.047	SI
31.	31.	3. 1.	-54512.	-9.9	418.7	4.02	10.22	.012	32.64	.039	SI
283.	283.	3. 1.	41244.!	-7.5!	316.8	4.02	10.22	.0091	32.64	.03	SI
410.	410.	3. 3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
410.	410.	3. 3.	21022.	-2.7	82.5	8.04	9.43	.0024	21.47	.005	SI
> 410.	0.	3. 3.	-65913.	-8.4	258.7	8.04	9.43	.0074	21.47	.016	SI
671.	261.	3. 1.	75040.!	-13.6!	576.4!	4.02	10.22	.0165	32.64	.054	SI
965.	555.	3. 1.	-91126.!	-16.5!	699.9!	4.02	10.22	.02	32.64	.065	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-51803.!	-9.4!	397.9!	4.02	10.22	.0114	32.64	.037	SI
15.	15.	3. 1.	-47363.	-8.6	363.8	4.02	10.22	.0104	32.64	.034	SI
31.	31.	3. 1.	-37850.	-6.9	290.7	4.02	10.22	.0083	32.64	.027	SI
242.	242.	3. 1.	34100.!	-6.2!	261.9	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3. 3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
> 410.	0.	3. 3.	-59838.	-7.6	234.8	8.04	9.43	.0067	21.47	.014	SI
671.	261.	3. 1.	74929.!	-13.6!	575.5!	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3. 1.	-71429.!	-12.9!	548.6!	4.02	10.22	.0157	32.64	.051	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-46461.!	-8.4!	356.9!	4.02	10.22	.0102	32.64	.033	SI
15.	15.	3. 1.	-42238.	-7.7	324.4	4.02	10.22	.0093	32.64	.03	SI
31.	31.	3. 1.	-33192.	-6.	254.9	4.02	10.22	.0073	32.64	.024	SI
242.	242.	3. 1.	34182.!	-6.2!	262.5	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3. 3.	-29817.	-3.8	117.	8.04	9.43	.0033	21.47	.007	SI
> 410.	0.	3. 3.	-59393.	-7.6	233.1	8.04	9.43	.0067	21.47	.014	SI
671.	261.	3. 1.	74869.!	-13.6!	575.1!	4.02	10.22	.0164	32.64	.054	SI
965.	555.	3. 1.	-65425.!	-11.9!	502.5!	4.02	10.22	.0144	32.64	.047	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 99 - Travata Tc011 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	s.ini	Sez.	s.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A759	3	3	3	0	410.	370.	10.25	1.3	4.579	103.482
2	A788	3	3	3	0	545.	495.	13.625	1.3	1.6	34.002

CASI DI CARICO DA MODELLO 3D

Nome	SLU	Descrizione	Sest



1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-181836.	-.026!	.067!	-546809.	-.35	2.278	3.	.133	3.007	SI
0.	0.	3.	119405.	-.017!	.044!	546809.	-.35	2.278	3.	.133	4.579	SI
200.	200.	3.	-14468.	-.002!	.005!	-546809.	-.35	2.278	3.	.133	37.8	SI
325.	325.	3.	-145403.	-.016!	.028!	-1039699.	-.35	1.395	3.	.201	7.15	SI
325.	325.	3.	80938.	-.01!	.03!	547697.	-.35	2.388	3.	.128	6.767	SI
369.	369.	3.	91830.	-.008!	.014!	1297700.	-.35	1.512	3.	.188	14.13	SI
410.	410.	3.	-220951.	-.021!	.041!	-1054435.	-.35	1.899	3.	.156	4.772	SI
410.	410.	3.	96555.	-.009!	.015!	1297700.	-.35	1.512	3.	.188	13.44	SI
> 410.	0.	3.	-474024.	-.045!	.089!	-1054435.	-.35	1.899	3.	.156	2.224	SI
410.	0.	3.	31889.	-.003!	.005!	1297700.	-.35	1.512	3.	.188	40.69	SI
682.	272.	3.	498094.	-.064!	.125!	796796.	-.35	1.795	3.	.163	1.6	SI
955.	545.	3.	-511569.	-.089!	.309!	-547369.	-.35	2.346	3.	.13	1.07	SI
955.	545.	3.	52391.	-.006!	.013!	796796.	-.35	1.795	3.	.163	15.21	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-3545.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	4999.	3948.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-3721.	4455.	28335.	14044.	1.01	9.	1.
75.	75.	3.	-3721.	4455.	24411.	24577.	1.01	9.	1.75
410.	410.	3.	-4628.	3948.	28335.	14044.	1.01	9.	1.
410.	410.	3.	3799.	3948.	28335.	14044.	1.01	9.	1.
> 410.	0.	3.	-114.	3948.	28335.	14044.	1.01	9.	1.
410.	0.	3.	7679.	3948.	28335.	14044.	1.01	9.	1.
451.	41.	3.	-327.	5099.	28335.	14044.	1.01	9.	1.
495.	85.	3.	-909.	5099.	24411.	24577.	1.01	9.	1.75
955.	545.	3.	-6672.	3948.	28335.	14044.	1.01	9.	1.
955.	545.	3.	459.	3948.	28335.	14044.	1.01	9.	1.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-54763.	-9.9!	420.6!	4.02	10.22	.012	32.64	.039	SI
15.	15.	3.	-50649.	-9.2!	389.	4.02	10.22	.0111	32.64	.036	SI
31.	31.	3.	-41838.	-7.6!	321.3!	4.02	10.22	.0092	32.64	.03	SI
200.	200.	3.	34101.	-6.2!	261.9!	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	-67786.	-8.3!	265.6!	8.04	9.54	.0076	21.58	.016	SI
> 410.	0.	3.	-335963.	-41.	1316.3!	8.04	9.54	.0443	21.58	.096	SI
682.	272.	3.	361148.	-56.4!	1876.9!	6.03	9.64	.0657	24.94	.164	SI
955.	545.	3.	-361434.	-62.3!	2775.8!	4.02	10.33	.0959	32.87	.315	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-37834.	-6.9!	290.6!	4.02	10.22	.0083	32.64	.027	SI
15.	15.	3.	-34381.	-6.2!	264.1!	4.02	10.22	.0075	32.64	.025	SI
31.	31.	3.	-26985.	-4.9!	207.3!	4.02	10.22	.0059	32.64	.019	SI
200.	200.	3.	34081.	-6.2!	261.8!	4.02	10.22	.0075	32.64	.024	SI
410.	410.	3.	-61428.	-7.5!	240.7!	8.04	9.54	.0069	21.58	.015	SI
> 410.	0.	3.	-282137.	-34.4!	1105.4!	8.04	9.54	.0343	21.58	.074	SI
682.	272.	3.	313886.	-49.	1631.3!	6.03	9.64	.054	24.94	.135	SI
955.	545.	3.	-294385.	-50.8!	2260.8!	4.02	10.33	.0714	32.87	.235	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	-29367.	-5.3!	225.6!	4.02	10.22	.0064	32.64	.021	SI
31.	31.	3.	-22513.	-4.1!	172.9!	4.02	10.22	.0049	32.64	.016	SI
200.	200.	3.	34251.	-6.2!	263.1!	4.02	10.22	.0075	32.64	.025	SI
410.	410.	3.	-63379.	-7.7!	248.3!	8.04	9.54	.0071	21.58	.015	SI
> 410.	0.	3.	-276002.	-33.7!	1081.3!	8.04	9.54	.0331	21.58	.072	SI
682.	272.	3.	308385.	-48.1!	1602.7!	6.03	9.64	.0526	24.94	.131	SI
955.	545.	3.	-281800.	-48.6!	2164.2!	4.02	10.33	.0668	32.87	.22	SI

ARMATURE LONGITUDINALI (%=100\*Af/Ac1s - Ac1s=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	2d16 +3d16
4	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
5	10.05	.838	4.02	.335	2d16	6.03	.503	3d16

#### VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 100 - Travata Tc012 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

#### MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

#### TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

#### SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

#### DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A760	3	3	3	0	410.	370.	10.25	1.3	3.633	82.103
2	A789	3	3	3	0	545.	495.	13.625	1.3	1.153	23.47

#### CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

#### VERIFICHE ALLO STATO LIMITE ULTIMO

##### FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-187794.	-.027	.069	-546809.	-.35	2.278	3.	.133	2.912	SI
0.	0.	3.	1.	150498.	-.022	.055	546809.	-.35	2.278	3.	.133	3.633	SI
200.	200.	3.	1.	10950.	-.002	.004	546809.	-.35	2.278	3.	.133	49.94	SI
325.	325.	3.	2.	53537.	-.007	.02	547697.	-.35	2.388	3.	.128	10.23	SI
369.	369.	3.	3.	61600.	-.005	.008	1539128.	-.35	1.268	3.	.216	24.99	SI
410.	410.	3.	3.	-288639.	-.026	.054	-1056361.	-.35	1.987	3.	.15	3.66	SI
410.	410.	3.	3.	64716.	-.006	.008	1539128.	-.35	1.268	3.	.216	23.78	SI
> 410.	0.	3.	3.	-850570.	-.079	.16	-1056361.	-.35	1.987	3.	.15	1.242	SI
426.	16.	3.	3.	54582.	-.005	.007	1539128.	-.35	1.268	3.	.216	28.2	SI
682.	272.	3.	5.	901984.	-.112	.173	1039699.	-.35	1.395	3.	.201	1.153	SI
955.	545.	3.	4.	-858689.	-.09	.162	-1051660.	-.35	1.781	3.	.164	1.225	SI
955.	545.	3.	4.	3284.	0.	.001	1051660.	-.35	1.781	3.	.164	320.2	SI

#### VERIFICHE A TAGLIO

##### TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-3555.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	5388.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-3730.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	3730.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-4638.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	4188.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	10961.	3948.	28335.	14044.	1.01	9.	1.	SI

451.	41.	3.	10008.	5613.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-697.	5613.	24411.	24577.	1.01	9.	1.75	SI
955.	545.	3.	-10798.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	2678.	-5	20.6	4.02	10.22	.0006	32.64	.002	SI
16.	16.	3.	-38228.	-6.9	293.6	4.02	10.22	.0084	32.64	.027	SI
200.	200.	3.	34022.	-6.2	261.3	4.02	10.22	.0075	32.64	.024	SI
283.	283.	3.	-51443.	-9.3	395.1	4.02	10.22	.0113	32.64	.037	SI
410.	410.	3.	-126470.	-14.8	494.8	8.04	9.65	.0141	21.69	.031	SI
> 410.	0.	3.	-610495.	-71.4	2388.6	8.04	9.65	.0952	21.69	.207	SI
682.	272.	3.	649865.	-92.	2564.	8.04	9.17	.1043	21.2	.221	SI
955.	545.	3.	-612930.	-78.3	2405.6	8.04	9.43	.0964	21.47	.207	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-24871.	-4.5	191.	4.02	10.22	.0055	32.64	.018	SI
31.	31.	3.	-20253.	-3.7	155.6	4.02	10.22	.0044	32.64	.015	SI
200.	200.	3.	34028.	-6.2	261.4	4.02	10.22	.0075	32.64	.024	SI
283.	283.	3.	-40512.	-7.3	311.2	4.02	10.22	.0089	32.64	.029	SI
410.	410.	3.	-110571.	-12.9	432.6	8.04	9.65	.0124	21.69	.027	SI
> 410.	0.	3.	-510030.	-59.7	1995.5	8.04	9.65	.0765	21.69	.166	SI
682.	272.	3.	549563.	-77.8	2168.3	8.04	9.17	.0855	21.2	.181	SI
955.	545.	3.	-501837.	-64.1	1969.6	8.04	9.43	.0756	21.47	.162	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-25207.	-4.6	193.6	4.02	10.22	.0055	32.64	.018	SI
31.	31.	3.	-20903.	-3.8	160.6	4.02	10.22	.0046	32.64	.015	SI
158.	158.	3.	34528.	-6.3	265.2	4.02	10.22	.0076	32.64	.025	SI
283.	283.	3.	-43322.	-7.9	332.8	4.02	10.22	.0095	32.64	.031	SI
410.	410.	3.	-112950.	-13.2	441.9	8.04	9.65	.0126	21.69	.027	SI
> 410.	0.	3.	-498544.	-58.3	1950.6	8.04	9.65	.0744	21.69	.161	SI
682.	272.	3.	538975.	-76.3	2126.5	8.04	9.17	.0835	21.2	.177	SI
955.	545.	3.	-483545.	-61.8	1897.8	8.04	9.43	.0722	21.47	.155	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	2d16 +4d16
4	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
5	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 101 - Travata Tc013 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu= .35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl's=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A761	3	3	3	0	410.	370.	10.25	1.3	2.978	67.299
2	A790	3	3	3	0	545.	495.	13.625	1.3	1.281	26.081

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-271144.	-.039	.1	-546809.	-.35	2.278	3.	.133	2.017	SI
0.	0.	3.	166224.	-.024	.061	546809.	-.35	2.278	3.	.133	3.29	SI
75.	75.	3.	183603.	-.026	.068	546809.	-.35	2.278	3.	.133	2.978	SI
158.	158.	3.	-9991.	-.001	.004	-546809.	-.35	2.278	3.	.133	54.73	SI
325.	325.	3.	155182.	-.02	.057	547697.	-.35	2.388	3.	.128	3.529	SI
369.	369.	3.	141829.	-.012	.018	1539128.	-.35	1.268	3.	.216	10.85	SI
410.	410.	3.	-396094.	-.036	.074	-1056361.	-.35	1.987	3.	.15	2.667	SI
410.	410.	3.	110455.	-.01	.014	1539128.	-.35	1.268	3.	.216	13.93	SI
> 410.	0.	3.	-792201.	-.073	.149	-1056361.	-.35	1.987	3.	.15	1.333	SI
426.	16.	3.	62169.	-.005	.008	1539128.	-.35	1.268	3.	.216	24.76	SI
682.	272.	3.	811662.	-.1	.155	1039699.	-.35	1.395	3.	.201	1.281	SI
955.	545.	3.	-743904.	-.077	.141	-1051660.	-.35	1.781	3.	.164	1.414	SI
955.	545.	3.	33628.	-.003	.006	1051660.	-.35	1.781	3.	.164	31.27	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-2252.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	6793.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2840.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-2840.	4455.	24411.	24577.	1.01	9.	1.75	SI
410.	410.	3.	-5875.	3948.	28335.	14044.	1.01	9.	1.	SI
410.	410.	3.	2779.	3948.	28335.	14044.	1.01	9.	1.	SI
> 410.	0.	3.	10332.	3948.	28335.	14044.	1.01	9.	1.	SI
451.	41.	3.	-212.	5613.	28335.	14044.	1.01	9.	1.	SI
495.	85.	3.	-1131.	5613.	24411.	24577.	1.01	9.	1.75	SI
955.	545.	3.	-10235.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-88776.	-16.1	681.9	4.02	10.22	.0195	32.64	.064	SI
31.	31.	3.	-62996.	-11.4	483.9	4.02	10.22	.0138	32.64	.045	SI
200.	200.	3.	132724.	-24.1	1019.4	4.02	10.22	.0291	32.64	.095	SI
410.	410.	3.	-234344.	-27.4	916.9	8.04	9.65	.0262	21.69	.057	SI
> 410.	0.	3.	-568017.	-66.4	2222.4	8.04	9.65	.0873	21.69	.189	SI
682.	272.	3.	585192.	-82.8	2308.8	8.04	9.17	.0922	21.2	.195	SI
955.	545.	3.	-527352.	-67.4	2069.7	8.04	9.43	.0804	21.47	.173	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-77779.	-14.1	597.4	4.02	10.22	.0171	32.64	.056	SI
31.	31.	3.	-55722.	-10.1	428.	4.02	10.22	.0122	32.64	.04	SI
200.	200.	3.	116002.	-21.	891.	4.02	10.22	.0255	32.64	.083	SI
410.	410.	3.	-193787.	-22.7	758.2	8.04	9.65	.0217	21.69	.047	SI
> 410.	0.	3.	-473987.	-55.4	1854.5	8.04	9.65	.0698	21.69	.151	SI
682.	272.	3.	496226.	-70.2	1957.8	8.04	9.17	.0755	21.2	.16	SI
955.	545.	3.	-434472.	-55.5	1705.2	8.04	9.43	.063	21.47	.135	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-76726.	-13.9	589.3	4.02	10.22	.0168	32.64	.055	SI
31.	31.	3.	-55240.	-10.	424.3	4.02	10.22	.0121	32.64	.04	SI
200.	200.	3.	114940.	-20.8	882.8	4.02	10.22	.0252	32.64	.082	SI
410.	410.	3.	-189965.	-22.2	743.3	8.04	9.65	.0212	21.69	.046	SI
> 410.	0.	3.	-463084.	-54.2	1811.9	8.04	9.65	.0677	21.69	.147	SI
682.	272.	3.	486521.	-68.8	1919.5	8.04	9.17	.0736	21.2	.156	SI
955.	545.	3.	-419902.	-53.7	1648.	8.04	9.43	.0603	21.47	.129	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	% Super.	%	Barre	Infer.	%	Barre
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1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	2d16 +4d16
4	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
5	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 102 - Travata Tc014 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acls=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	s.ini	Sez.	s.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A762	3	3	3	0	400.	350.	10.	1.3	2.53	57.162
2	A791	3	3	3	0	545.	495.	13.625	1.3	1.68	35.716

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-394608.	-.058!	.146!	-546809.	-.35	2.278	3.	.133	1.386	SI
0.	0.	3.	1.	202253.	-.029	.075	546809.	-.35	2.278	3.	.133	2.704	SI
63.	63.	3.	1.	216163.	-.031	.08	546809.	-.35	2.278	3.	.133	2.53	SI
238.	238.	3.	1.	-31925.	-.004	.012	-546809.	-.35	2.278	3.	.133	17.13	SI
315.	315.	3.	2.	-236735.	-.027	.045	-1039699.	-.35	1.395	3.	.201	4.392	SI
315.	315.	3.	2.	157279.	-.02	.058	547697.	-.35	2.388	3.	.128	3.482	SI
359.	359.	3.	3.	151579.	-.014	.023	1297700.	-.35	1.512	3.	.188	8.561	SI
400.	400.	3.	3.	-434826.	-.041	.082	-1054435.	-.35	1.899	3.	.156	2.425	SI
400.	400.	3.	3.	126613.	-.012	.019	1297700.	-.35	1.512	3.	.188	10.25	SI
> 400.	0.	3.	3.	-502083.	-.048	.094	-1054435.	-.35	1.899	3.	.156	2.1	SI
400.	0.	3.	3.	33051.	-.003	.005	1297700.	-.35	1.512	3.	.188	39.26	SI
672.	272.	3.	5.	474192.	-.061	.119	796796.	-.35	1.795	3.	.163	1.68	SI
945.	545.	3.	5.	-438388.	-.061	.162	-547369.	-.35	2.346	3.	.13	1.249	SI
945.	545.	3.	5.	79808.	-.01	.02	796796.	-.35	1.795	3.	.163	9.984	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-2720.	3948.	28335.	14044.	1.01	9.	1.
0.	0.	3.	6880.	3948.	28335.	14044.	1.01	9.	1.
63.	63.	3.	-3170.	4455.	28335.	14044.	1.01	9.	1.
85.	85.	3.	-3430.	4455.	24411.	24577.	1.01	9.	1.75
400.	400.	3.	-6862.	3948.	28335.	14044.	1.01	9.	1.
400.	400.	3.	2146.	3948.	28335.	14044.	1.01	9.	1.
> 400.	0.	3.	-204.	3948.	28335.	14044.	1.01	9.	1.

400.	0.	3.	7581.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-412.	5099.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-979.	5099.	24411.	24577.	1.01	9.	1.75	SI
945.	545.	3.	-6600.	3948.	28335.	14044.	1.01	9.	1.	SI
945.	545.	3.	539.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-129036.	-23.4	991.1	4.02	10.22	.0283	32.64	.092	SI
41.	41.	3.	-76059.	-13.8	584.2	4.02	10.22	.0167	32.64	.054	SI
200.	200.	3.	154994.	-28.1	1190.5	4.02	10.22	.034	32.64	.111	SI
400.	400.	3.	-214812.	-26.2	841.6	8.04	9.54	.024	21.58	.052	SI
> 400.	0.	3.	-353080.	-43.1	1383.3	8.04	9.54	.0475	21.58	.103	SI
672.	272.	3.	340821.	-53.2	1771.3	6.03	9.64	.0607	24.94	.151	SI
945.	545.	3.	-299526.	-51.7	2300.3	4.02	10.33	.0733	32.87	.241	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-102965.	-18.7	790.9	4.02	10.22	.0226	32.64	.074	SI
41.	41.	3.	-57370.	-10.4	440.6	4.02	10.22	.0126	32.64	.041	SI
200.	200.	3.	137716.	-25.	1057.8	4.02	10.22	.0302	32.64	.099	SI
400.	400.	3.	-177372.	-21.7	694.9	8.04	9.54	.0199	21.58	.043	SI
> 400.	0.	3.	-303594.	-37.1	1189.4	8.04	9.54	.0383	21.58	.083	SI
672.	272.	3.	304697.	-47.6	1583.5	6.03	9.64	.0517	24.94	.129	SI
945.	545.	3.	-255950.	-44.2	1965.7	4.02	10.33	.0573	32.87	.188	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
16.	16.	3.	-97870.	-17.7	751.7	4.02	10.22	.0215	32.64	.07	SI
41.	41.	3.	-53358.	-9.7	409.8	4.02	10.22	.0117	32.64	.038	SI
200.	200.	3.	135868.	-24.6	1043.6	4.02	10.22	.0298	32.64	.097	SI
400.	400.	3.	-171132.	-20.9	670.5	8.04	9.54	.0192	21.58	.041	SI
> 400.	0.	3.	-297309.	-36.3	1164.8	8.04	9.54	.0371	21.58	.08	SI
672.	272.	3.	300127.	-46.9	1559.8	6.03	9.64	.0506	24.94	.126	SI
945.	545.	3.	-248489.	-42.9	1908.4	4.02	10.33	.0546	32.87	.179	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	2d16 +3d16
4	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
5	10.05	.838	4.02	.335	2d16	6.03	.503	3d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 1 - Travata Tf001 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	λ	K	r.Ar.	lam.max
1	A3	3	3	3	0	385.	335.	3.208	1.3	5.	129.755
2	A7	3	3	3	0	485.	435.	4.042	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

SLU |

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	
10.	SLU FON con SISMAX P16	
11.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	237110.	-.002	.007	6739557.	-.067	.186	2.	.266	28.42	SI
192.	192.	3. 1.	-7502.	0.	0.	-6877818.	-.039	.186	2.	.175	916.9	SI
265.	265.	3. 1.	242246.	-.002	.007	6739557.	-.067	.186	2.	.266	27.82	SI
299.	299.	3. 2.	-78185.	0.	.002	-6922260.	-.036	.186	2.	.161	88.54	SI
299.	299.	3. 2.	226633.	-.002	.003	13017013.	-.111	.186	2.	.374	57.44	SI
333.	333.	3. 3.	217204.	-.001	.003	13384511.	-.092	.186	2.	.331	61.62	SI
385.	385.	3. 3.	-81927.	0.	.001	-13571814.	-.056	.186	2.	.23	165.7	SI
385.	385.	3. 3.	182477.	-.001	.003	13384511.	-.092	.186	2.	.331	73.35	SI
> 385.	0.	3. 3.	-83554.	0.	.001	-13571814.	-.056	.186	2.	.23	162.4	SI
385.	0.	3. 3.	192060.	-.001	.003	13384511.	-.092	.186	2.	.331	69.69	SI
435.	50.	3. 3.	-84171.	0.	.001	-13571814.	-.056	.186	2.	.23	161.2	SI
505.	120.	3. 2.	-71872.	0.	.002	-6922260.	-.036	.186	2.	.161	96.31	SI
505.	120.	3. 2.	205250.	-.002	.003	13017013.	-.111	.186	2.	.374	63.42	SI
709.	324.	3. 1.	-18121.	0.	0.	-6877818.	-.039	.186	2.	.175	379.6	SI
818.	433.	3. 1.	199299.	-.002	.005	6739557.	-.067	.186	2.	.266	33.82	SI
870.	485.	3. 1.	199299.	-.002	.005	6739557.	-.067	.186	2.	.266	33.82	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-3633.	12430.	84441.	51204.	1.01	20.	2.5	SI
50.	50.	3.	-1253.	15191.	84441.	51204.	1.01	20.	2.5	SI
120.	120.	3.	2897.	15191.	84441.	51204.	1.01	20.	2.5	SI
265.	265.	3.	-4023.	15191.	84441.	51204.	1.01	20.	2.5	SI
385.	385.	3.	2615.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 385.	0.	3.	-3034.	12430.	84441.	51204.	1.01	20.	2.5	SI
487.	102.	3.	2621.	15191.	84441.	51204.	1.01	20.	2.5	SI
628.	242.	3.	-3110.	15191.	84441.	51204.	1.01	20.	2.5	SI
870.	485.	3.	3873.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3. 1.	157328.	-1.9	90.9	16.08	10.75	.0026	33.71	.009	SI
265.	265.	3. 1.	158357.	-2.	91.5	16.08	10.75	.0026	33.71	.009	SI
333.	333.	3. 3.	58519.	-.5	17.1	32.17	10.75	.0005	22.81	.001	SI
385.	385.	3. 3.	100493.	-.9	29.3	32.17	10.75	.0008	22.81	.002	SI
> 385.	0.	3. 3.	109328.	-.9	31.9	32.17	10.75	.0009	22.81	.002	SI
505.	120.	3. 2.	131865.	-1.3	39.2	32.17	10.75	.0011	22.81	.003	SI
668.	283.	3. 1.	20515.	-.3	11.9	16.08	10.75	.0003	33.71	.001	SI
870.	485.	3. 1.	130722.	-1.6	75.5	16.08	10.75	.0022	33.71	.007	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3. 1.	150186.	-1.9	86.8	16.08	10.75	.0025	33.71	.008	SI
333.	333.	3. 3.	48087.	-.4	14.	32.17	10.75	.0004	22.81	.001	SI
385.	385.	3. 3.	75184.	-.6	21.9	32.17	10.75	.0006	22.81	.001	SI
> 385.	0.	3. 3.	81352.	-.7	23.7	32.17	10.75	.0007	22.81	.002	SI
668.	283.	3. 1.	36864.	-.5	21.3	16.08	10.75	.0006	33.71	.002	SI
870.	485.	3. 1.	126259.	-1.6	72.9	16.08	10.75	.0021	33.71	.007	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3. 1.	150282.	-1.9	86.8	16.08	10.75	.0025	33.71	.008	SI
333.	333.	3. 3.	42915.	-.4	12.5	32.17	10.75	.0004	22.81	.001	SI
385.	385.	3. 3.	69097.	-.6	20.1	32.17	10.75	.0006	22.81	.001	SI
> 385.	0.	3. 3.	74560.	-.6	21.7	32.17	10.75	.0006	22.81	.001	SI
435.	50.	3. 3.	36898.	-.3	10.8	32.17	10.75	.0003	22.81	.001	SI
870.	485.	3. 1.	126477.	-1.6	73.1	16.08	10.75	.0021	33.71	.007	SI

ARMATURE LONGITUDINALI (%=100\*Af/Ac1s - Ac1s=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 2 - Travata Tf002 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [Wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogenein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; A<sub>cl</sub>s=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	s.ini	Sez.	s.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A17	3	3	3	0	385.	355.	3.208	1.3	5.	129.755
2	A18	3	3	3	0	485.	435.	4.042	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16
10.	SLU FON con SISMAX P16	16
11.	SLU FON con SISMAX P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	1012460.	-.01	.028	6739557.	-.067	.186	2.	.266	6.657	SI
15.	15.	3. 1.	-77458.	0.	.002	-6877818.	-.039	.186	2.	.175	88.79	SI
265.	265.	3. 1.	-598722.	-.003	.016	-6877818.	-.039	.186	2.	.175	11.49	SI
299.	299.	3. 2.	-594017.	-.003	.016	-6922260.	-.036	.186	2.	.161	11.65	SI
299.	299.	3. 2.	444488.	-.003	.006	13017013.	-.111	.186	2.	.374	29.29	SI
333.	333.	3. 3.	731693.	-.005	.01	13384511.	-.092	.186	2.	.331	18.29	SI
385.	385.	3. 3.	-494291.	-.002	.007	-13571814.	-.056	.186	2.	.23	27.46	SI
385.	385.	3. 3.	731693.	-.005	.01	13384511.	-.092	.186	2.	.331	18.29	SI
> 385.	0.	3. 3.	-510908.	-.002	.007	-13571814.	-.056	.186	2.	.23	26.56	SI
385.	0.	3. 3.	801478.	-.005	.011	13384511.	-.092	.186	2.	.331	16.7	SI
505.	120.	3. 2.	-887054.	-.004	.024	-6922260.	-.036	.186	2.	.161	7.804	SI
505.	120.	3. 2.	126070.	-.001	.002	13017013.	-.111	.186	2.	.374	103.3	SI
628.	242.	3. 1.	-938960.	-.005	.025	-6877818.	-.039	.186	2.	.175	7.325	SI
818.	433.	3. 1.	1195167.	-.011	.033	6739557.	-.067	.186	2.	.266	5.639	SI
870.	485.	3. 1.	1195167.	-.011	.033	6739557.	-.067	.186	2.	.266	5.639	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-12033.	12430.	84441.	51204.	1.01	20.	2.5
52.	52.	3.	-9417.	15191.	84441.	51204.	1.01	20.	2.5
385.	385.	3.	10801.	12430.	84441.	51204.	1.01	20.	2.5
> 385.	0.	3.	-14259.	12430.	84441.	51204.	1.01	20.	2.5



487. | 102. | 3. | -8140. | 15191. | 84441. | 51204. | 1.01 | 20. | 2.5 | SI |  
 870. | 485. | 3. | 17137. | 12430. | 84441. | 51204. | 1.01 | 20. | 2.5 | SI |

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	619077.!	-7.6!	357.6!	16.08	10.75	.0102	33.71	.034	SI
30.	30.	3. 1.	390257.!	-4.8!	225.4!	16.08	10.75	.0064	33.71	.022	SI
52.	52.	3. 1.	231457.!	-2.9!	133.7!	16.08	10.75	.0038	33.71	.013	SI
192.	192.	3. 1.	-272307.!	-1.9!	154.2!	16.08	10.75	.0044	19.17	.008	SI
385.	385.	3. 3.	470903.!	-4.!	137.3!	32.17	10.75	.0039	22.81	.009	SI
> 385.	0.	3. 3.	521002.!	-4.4!	151.9!	32.17	10.75	.0043	22.81	.01	SI
628.	242.	3. 1.	-711265.!	-5.1!	402.7!	16.08	10.75	.0115	19.17	.022	SI
870.	485.	3. 1.	827305.!	-10.2!	477.9!	16.08	10.75	.0137	33.71	.046	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	650108.!	-8.!	375.6!	16.08	10.75	.0107	33.71	.036	SI
30.	30.	3. 1.	435367.!	-5.4!	251.5!	16.08	10.75	.0072	33.71	.024	SI
52.	52.	3. 1.	284326.!	-3.5!	164.2!	16.08	10.75	.0047	33.71	.016	SI
229.	229.	3. 1.	-264691.!	-1.9!	149.8!	16.08	10.75	.0043	19.17	.008	SI
385.	385.	3. 3.	146807.!	-1.3!	42.8!	32.17	10.75	.0012	22.81	.003	SI
> 385.	0.	3. 3.	196496.!	-1.7!	57.3!	32.17	10.75	.0016	22.81	.004	SI
628.	242.	3. 1.	-612131.!	-4.4!	346.5!	16.08	10.75	.0099	19.17	.019	SI
870.	485.	3. 1.	817769.!	-10.1!	472.4!	16.08	10.75	.0135	33.71	.046	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	653030.!	-8.1!	377.2!	16.08	10.75	.0108	33.71	.036	SI
30.	30.	3. 1.	442948.!	-5.5!	255.9!	16.08	10.75	.0073	33.71	.025	SI
52.	52.	3. 1.	294784.!	-3.6!	170.3!	16.08	10.75	.0049	33.71	.016	SI
229.	229.	3. 1.	-251402.!	-1.8!	142.3!	16.08	10.75	.0041	19.17	.008	SI
385.	385.	3. 3.	115683.!	-1.!	33.7!	32.17	10.75	.001	22.81	.002	SI
> 385.	0.	3. 3.	162683.!	-1.4!	47.4!	32.17	10.75	.0014	22.81	.003	SI
587.	202.	3. 1.	-588181.!	-4.2!	333.!	16.08	10.75	.0095	19.17	.018	SI
870.	485.	3. 1.	809082.!	-10.!	467.4!	16.08	10.75	.0134	33.71	.045	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 3 - Travata Tf003 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinale= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A31	3	3	3	0	465.	405.	3.875	1.3	5.	129.755
2	A35	3	3	3	0	405.	405.	3.375	1.5	5.	149.718
3	A38	3	3	3	0	870.	840.	7.25	1.5	3.406	102.002
4	A42	3	3	3	0	465.	365.	3.875	1.5	4.382	131.204
5	A46	3	3	3	0	435.	385.	3.625	1.5	5.	149.718
6	A50	3	3	3	0	405.	405.	3.375	1.5	5.	149.718
7	A54	3	3	3	0	435.	385.	3.625	1.5	5.	149.718
8	A58	3	3	3	0	435.	385.	3.625	1.5	5.	149.718

9| A61| 3| 3| 3| 0| 335.| 255.| 2.792|1.3|5. |129.755|

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	
10.	SLU FON con SISMAX P16	
11.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-101474.	-.001	.003	-6877818.	-.039	.186	2.	.175	67.78	SI
0.	0.	3.	1.	273531.	-.003	.008	6739557.	-.067	.186	2.	.266	24.64	SI
165.	165.	3.	1.	-123669.	-.001	.003	-6877818.	-.039	.186	2.	.175	55.62	SI
210.	210.	3.	1.	21302.	0.	.001	6739557.	-.067	.186	2.	.266	316.4	SI
364.	364.	3.	2.	-98057.	0.	.003	-6922260.	-.036	.186	2.	.161	70.59	SI
364.	364.	3.	2.	133282.	-.001	.002	13017013.	-.111	.186	2.	.374	97.67	SI
383.	383.	3.	3.	121648.	-.001	.002	13384511.	-.092	.186	2.	.331	110.	SI
465.	465.	3.	3.	-98839.	0.	.001	-13571814.	-.056	.186	2.	.23	137.3	SI
465.	465.	3.	3.	209168.	-.001	.003	13384511.	-.092	.186	2.	.331	63.99	SI
> 465.	0.	3.	3.	-205214.	-.001	.003	-13571814.	-.056	.186	2.	.23	66.14	SI
465.	0.	3.	3.	244717.	-.002	.003	13384511.	-.092	.186	2.	.331	54.69	SI
551.	86.	3.	2.	-370380.	-.002	.01	-6922260.	-.036	.186	2.	.161	18.69	SI
551.	86.	3.	2.	291021.	-.002	.004	13017013.	-.111	.186	2.	.374	44.73	SI
784.	319.	3.	2.	-2418746.	-.012	.065	-6922260.	-.036	.186	2.	.161	2.862	SI
818.	353.	3.	3.	1380145.	-.009	.019	13384511.	-.092	.186	2.	.331	9.698	SI
870.	405.	3.	3.	-3020897.	-.012	.041	-13571814.	-.056	.186	2.	.23	4.493	SI
870.	405.	3.	3.	1380145.	-.009	.019	13384511.	-.092	.186	2.	.331	9.698	SI
> 870.	0.	3.	3.	-1339821.	-.005	.018	-13571814.	-.056	.186	2.	.23	10.13	SI
870.	0.	3.	3.	1595086.	-.01	.022	13384511.	-.092	.186	2.	.331	8.391	SI
971.	101.	3.	2.	-1379595.	-.007	.037	-6922260.	-.036	.186	2.	.161	5.018	SI
971.	101.	3.	2.	1012473.	-.008	.014	13017013.	-.111	.186	2.	.374	12.86	SI
1080.	210.	3.	2.	96218.	-.001	.001	13017013.	-.111	.186	2.	.374	135.3	SI
1440.	570.	3.	1.	-4133110.	-.023	.112	-6877818.	-.039	.186	2.	.175	1.664	SI
1688.	818.	3.	3.	3929145.	-.026	.055	13384511.	-.092	.186	2.	.331	3.406	SI
1740.	870.	3.	3.	-802386.	-.003	.011	-13571814.	-.056	.186	2.	.23	16.91	SI
1740.	870.	3.	3.	3929145.	-.026	.055	13384511.	-.092	.186	2.	.331	3.406	SI
>1740.	0.	3.	3.	-693708.	-.003	.009	-13571814.	-.056	.186	2.	.23	19.56	SI
1740.	0.	3.	3.	3054639.	-.02	.042	13384511.	-.092	.186	2.	.331	4.382	SI
1860.	120.	3.	2.	-375428.	-.002	.01	-6922260.	-.036	.186	2.	.161	18.44	SI
1860.	120.	3.	2.	1794820.	-.014	.025	13017013.	-.111	.186	2.	.374	7.253	SI
2205.	465.	3.	3.	-48005.	0.	.001	-13571814.	-.056	.186	2.	.23	282.7	SI
2205.	465.	3.	3.	333581.	-.002	.005	13384511.	-.092	.186	2.	.331	40.12	SI
>2205.	0.	3.	3.	-5952.	0.	0.	-13571814.	-.056	.186	2.	.23	2280.	SI
2205.	0.	3.	3.	296646.	-.002	.004	13384511.	-.092	.186	2.	.331	45.12	SI
2291.	86.	3.	2.	-2766.	0.	0.	-6922260.	-.036	.186	2.	.161	2502.	SI
2291.	86.	3.	2.	236588.	-.002	.003	13017013.	-.111	.186	2.	.374	55.02	SI
2325.	120.	3.	1.	272655.	-.003	.008	6739557.	-.067	.186	2.	.266	24.72	SI
2640.	435.	3.	3.	-546.	0.	0.	-13571814.	-.056	.186	2.	.23	24848	SI
2640.	435.	3.	3.	232129.	-.001	.003	13384511.	-.092	.186	2.	.331	57.66	SI
>2640.	0.	3.	3.	209686.	-.001	.003	13384511.	-.092	.186	2.	.331	63.83	SI
2726.	86.	3.	2.	208307.	-.002	.003	13017013.	-.111	.186	2.	.374	62.49	SI
2801.	161.	3.	1.	-3067.	0.	0.	-6877818.	-.039	.186	2.	.175	2242.	SI
2842.	202.	3.	1.	242083.	-.002	.007	6739557.	-.067	.186	2.	.266	27.84	SI
2959.	319.	3.	2.	-98250.	0.	.003	-6922260.	-.036	.186	2.	.161	70.46	SI
3019.	379.	3.	3.	-100147.	0.	.001	-13571814.	-.056	.186	2.	.23	135.5	SI
3045.	405.	3.	3.	-93923.	0.	.001	-13571814.	-.056	.186	2.	.23	144.5	SI
3045.	405.	3.	3.	172837.	-.001	.002	13384511.	-.092	.186	2.	.331	77.44	SI
>3045.	0.	3.	3.	-139192.	-.001	.002	-13571814.	-.056	.186	2.	.23	97.5	SI
3045.	0.	3.	3.	150468.	-.001	.002	13384511.	-.092	.186	2.	.331	88.95	SI
3070.	25.	3.	3.	-112174.	0.	.002	-13571814.	-.056	.186	2.	.23	121.	SI
3360.	315.	3.	1.	252176.	-.002	.007	6739557.	-.067	.186	2.	.266	26.73	SI
3394.	349.	3.	2.	-240657.	-.001	.006	-6922260.	-.036	.186	2.	.161	28.76	SI
3394.	349.	3.	2.	218773.	-.002	.003	13017013.	-.111	.186	2.	.374	59.5	SI
3480.	435.	3.	3.	-245134.	-.001	.003	-13571814.	-.056	.186	2.	.23	55.37	SI
3480.	435.	3.	3.	232604.	-.001	.003	13384511.	-.092	.186	2.	.331	57.54	SI
>3480.	0.	3.	3.	-288185.	-.001	.004	-13571814.	-.056	.186	2.	.23	47.09	SI
3480.	0.	3.	3.	245357.	-.002	.003	13384511.	-.092	.186	2.	.331	54.55	SI
3795.	315.	3.	1.	302511.	-.003	.008	6739557.	-.067	.186	2.	.266	22.28	SI
3829.	349.	3.	2.	-379786.	-.002	.01	-6922260.	-.036	.186	2.	.161	18.23	SI
3829.	349.	3.	2.	277505.	-.002	.004	13017013.	-.111	.186	2.	.374	46.91	SI
3915.	435.	3.	3.	-382773.	-.001	.005	-13571814.	-.056	.186	2.	.23	35.46	SI
3915.	435.	3.	3.	301045.	-.002	.004	13384511.	-.092	.186	2.	.331	44.46	SI
>3915.	0.	3.	3.	-355973.	-.001	.005	-13571814.	-.056	.186	2.	.23	38.13	SI

3915.	0.	3.	3.	326853.	-.002	.005	13384511.	-.092	.186	2.	.331	40.95	SI
3940.	25.	3.	3.	-359783.	-.001	.005	-13571814.	-.056	.186	2.	.23	37.72	SI
4035.	120.	3.	1.	-316288.	-.002	.009	-6877818.	-.039	.186	2.	.175	21.75	SI
4067.	152.	3.	1.	270007.	-.003	.007	6739557.	-.067	.186	2.	.266	24.96	SI
4250.	335.	3.	1.	-102373.	-.001	.003	-6877818.	-.039	.186	2.	.175	67.18	SI
4250.	335.	3.	1.	239926.	-.002	.007	6739557.	-.067	.186	2.	.266	28.09	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-8018.	12430.	84441.	51204.	1.01	20.	2.5	SI
52.	52.	3.	-2212.	15191.	84441.	51204.	1.01	20.	2.5	SI
345.	345.	3.	6422.	15191.	84441.	51204.	1.01	20.	2.5	SI
465.	465.	3.	5327.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 465.	0.	3.	-5356.	12430.	84441.	51204.	1.01	20.	2.5	SI
551.	86.	3.	-852.	15191.	84441.	51204.	1.01	20.	2.5	SI
784.	319.	3.	-21113.	15191.	84441.	51204.	1.01	20.	2.5	SI
870.	405.	3.	-16818.	12430.	84441.	51204.	1.01	20.	2.5	SI
870.	405.	3.	8360.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 870.	0.	3.	-13181.	12430.	84441.	51204.	1.01	20.	2.5	SI
971.	101.	3.	-8729.	15191.	84441.	51204.	1.01	20.	2.5	SI
1260.	390.	3.	-24863.	15191.	84441.	51204.	1.01	20.	2.5	SI
1740.	870.	3.	30997.	12430.	84441.	51204.	1.01	20.	2.5	SI
>1740.	0.	3.	-20288.	12430.	84441.	51204.	1.01	20.	2.5	SI
1740.	0.	3.	2614.	12430.	84441.	51204.	1.01	20.	2.5	SI
1842.	102.	3.	-15256.	15191.	84441.	51204.	1.01	20.	2.5	SI
1842.	102.	3.	8738.	15191.	84441.	51204.	1.01	20.	2.5	SI
2205.	465.	3.	6527.	12430.	84441.	51204.	1.01	20.	2.5	SI
>2205.	0.	3.	-5332.	12430.	84441.	51204.	1.01	20.	2.5	SI
2257.	52.	3.	-124.	15191.	84441.	51204.	1.01	20.	2.5	SI
2538.	333.	3.	-6065.	15191.	84441.	51204.	1.01	20.	2.5	SI
2640.	435.	3.	5355.	12430.	84441.	51204.	1.01	20.	2.5	SI
>2640.	0.	3.	-4927.	12430.	84441.	51204.	1.01	20.	2.5	SI
2692.	52.	3.	1008.	15191.	84441.	51204.	1.01	20.	2.5	SI
2726.	86.	3.	4796.	15191.	84441.	51204.	1.01	20.	2.5	SI
2842.	202.	3.	-5660.	15191.	84441.	51204.	1.01	20.	2.5	SI
3045.	405.	3.	4602.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3045.	0.	3.	-5536.	12430.	84441.	51204.	1.01	20.	2.5	SI
3147.	102.	3.	6219.	15191.	84441.	51204.	1.01	20.	2.5	SI
3165.	120.	3.	-5561.	15191.	84441.	51204.	1.01	20.	2.5	SI
3480.	435.	3.	5392.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3480.	0.	3.	-5539.	12430.	84441.	51204.	1.01	20.	2.5	SI
3582.	102.	3.	6220.	15191.	84441.	51204.	1.01	20.	2.5	SI
3600.	120.	3.	-5582.	15191.	84441.	51204.	1.01	20.	2.5	SI
3915.	435.	3.	5268.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3915.	0.	3.	-5440.	12430.	84441.	51204.	1.01	20.	2.5	SI
4017.	102.	3.	6455.	15191.	84441.	51204.	1.01	20.	2.5	SI
4035.	120.	3.	-5535.	15191.	84441.	51204.	1.01	20.	2.5	SI
4250.	335.	3.	8505.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	169356.	-2.1	97.8	16.08	10.75	.0028	33.71	.009	SI
52.	52.	3.	-17432.	-.1	9.9	16.08	10.75	.0003	19.17	.001	SI
165.	165.	3.	-94204.	-.7	53.3	16.08	10.75	.0015	19.17	.003	SI
465.	465.	3.	114971.	-1.	33.5	32.17	10.75	.001	22.81	.002	SI
> 465.	0.	3.	136029.	-1.2	39.7	32.17	10.75	.0011	22.81	.003	SI
870.	405.	3.	-1093274.	-5.5	313.5	32.17	10.75	.009	15.54	.014	SI
> 870.	0.	3.	212109.	-1.8	61.8	32.17	10.75	.0018	22.81	.004	SI
1440.	570.	3.	-1679943.	-12.	951.1	16.08	10.75	.0308	19.17	.059	SI
1740.	870.	3.	2100709.	-17.9	612.4	32.17	10.75	.0175	22.81	.04	SI
>1740.	0.	3.	1579028.	-13.5	460.3	32.17	10.75	.0132	22.81	.03	SI
2040.	300.	3.	84359.	-1.	48.7	16.08	10.75	.0014	33.71	.005	SI
2205.	465.	3.	243170.	-2.1	70.9	32.17	10.75	.002	22.81	.005	SI
>2205.	0.	3.	213867.	-1.8	62.4	32.17	10.75	.0018	22.81	.004	SI
2325.	120.	3.	198821.	-2.5	114.9	16.08	10.75	.0033	33.71	.011	SI
2588.	383.	3.	78165.	-.7	22.8	32.17	10.75	.0007	22.81	.001	SI
2640.	435.	3.	167610.	-1.4	48.9	32.17	10.75	.0014	22.81	.003	SI
>2640.	0.	3.	151808.	-1.3	44.3	32.17	10.75	.0013	22.81	.003	SI
2842.	202.	3.	174089.	-2.1	100.6	16.08	10.75	.0029	33.71	.01	SI
2993.	353.	3.	36446.	-.3	10.6	32.17	10.75	.0003	22.81	.001	SI
3045.	405.	3.	92074.	-.8	26.8	32.17	10.75	.0008	22.81	.002	SI
>3045.	0.	3.	92780.	-.8	27.	32.17	10.75	.0008	22.81	.002	SI
3147.	102.	3.	126897.	-1.1	37.	32.17	10.75	.0011	22.81	.002	SI
3165.	120.	3.	109117.	-1.3	63.	16.08	10.75	.0018	33.71	.006	SI
3428.	383.	3.	-32478.	-.2	9.3	32.17	10.75	.0003	15.54	0.	SI
3480.	435.	3.	73637.	-.6	21.5	32.17	10.75	.0006	22.81	.001	SI
>3480.	0.	3.	69637.	-.6	20.3	32.17	10.75	.0006	22.81	.001	SI
3582.	102.	3.	102171.	-.9	29.8	32.17	10.75	.0009	22.81	.002	SI
3600.	120.	3.	84150.	-1.	48.6	16.08	10.75	.0014	33.71	.005	SI
3863.	383.	3.	-83234.	-.4	23.9	32.17	10.75	.0007	15.54	.001	SI
3915.	435.	3.	20998.	-.2	6.1	32.17	10.75	.0002	22.81	0.	SI
>3915.	0.	3.	40287.	-.3	11.7	32.17	10.75	.0003	22.81	.001	SI

3965.	50.	3.	3.	-81411.!	- .4	23.3	32.17	10.75	.0007	15.54	.001	SI
4250.	335.	3.	1.	149409.!	-1.8!	86.3!	16.08	10.75	.0025	33.71	.008	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	162670.!	-2.!	94.!	16.08	10.75	.0027	33.71	.009	SI
52.	52.	3.	1.	-3198.!	0.	1.8	16.08	10.75	.0001	19.17	0.	SI
165.	165.	3.	1.	-72587.!	- .5	41.1	16.08	10.75	.0012	19.17	.002	SI
465.	465.	3.	3.	87545.!	- .7	25.5	32.17	10.75	.0007	22.81	.002	SI
> 465.	0.	3.	3.	108937.!	- .9	31.8	32.17	10.75	.0009	22.81	.002	SI
870.	405.	3.	3.	-886413.!	-4.5!	254.2!	32.17	10.75	.0073	15.54	.011	SI
> 870.	0.	3.	3.	185974.!	-1.6	54.2	32.17	10.75	.0015	22.81	.004	SI
1440.	570.	3.	1.	-1439632.!	-10.3!	815.!	16.08	10.75	.0243	19.17	.047	SI
1740.	870.	3.	3.	1728469.!	-14.7!	503.9!	32.17	10.75	.0144	22.81	.033	SI
>1740.	0.	3.	3.	1262803.!	-10.8!	368.2!	32.17	10.75	.0105	22.81	.024	SI
2040.	300.	3.	1.	71067.!	- .9	41.1	16.08	10.75	.0012	33.71	.004	SI
2205.	465.	3.	3.	209674.!	-1.8	61.1	32.17	10.75	.0017	22.81	.004	SI
>2205.	0.	3.	3.	182304.!	-1.6	53.1	32.17	10.75	.0015	22.81	.003	SI
2325.	120.	3.	1.	179930.!	-2.2!	103.9!	16.08	10.75	.003	33.71	.01	SI
2590.	385.	3.	3.	68238.!	- .6	19.9	32.17	10.75	.0006	22.81	.001	SI
2640.	435.	3.	3.	141767.!	-1.2	41.3	32.17	10.75	.0012	22.81	.003	SI
>2640.	0.	3.	3.	128033.!	-1.1	37.3	32.17	10.75	.0011	22.81	.002	SI
2842.	202.	3.	1.	154712.!	-1.9	89.4!	16.08	10.75	.0026	33.71	.009	SI
3019.	379.	3.	3.	21495.!	- .2	6.3	32.17	10.75	.0002	22.81	0.	SI
3045.	405.	3.	3.	68408.!	- .6	19.9	32.17	10.75	.0006	22.81	.001	SI
>3045.	0.	3.	3.	67255.!	- .6	19.6	32.17	10.75	.0006	22.81	.001	SI
3147.	102.	3.	3.	103682.!	- .9	30.2	32.17	10.75	.0009	22.81	.002	SI
3165.	120.	3.	1.	87854.!	-1.1!	50.8!	16.08	10.75	.0015	33.71	.005	SI
3428.	383.	3.	3.	-34998.!	- .2	10.	32.17	10.75	.0003	15.54	0.	SI
3480.	435.	3.	3.	38807.!	- .3	11.3	32.17	10.75	.0003	22.81	.001	SI
>3480.	0.	3.	3.	34938.!	- .3	10.2	32.17	10.75	.0003	22.81	.001	SI
3582.	102.	3.	3.	73442.!	- .6	21.4	32.17	10.75	.0006	22.81	.001	SI
3600.	120.	3.	1.	57732.!	- .7	33.4!	16.08	10.75	.001	33.71	.003	SI
3863.	383.	3.	3.	-73259.!	- .4	21.	32.17	10.75	.0006	15.54	.001	SI
3915.	435.	3.	3.	-4224.!	0.	1.2	32.17	10.75	0.	15.54	0.	SI
>3915.	0.	3.	3.	17391.!	- .1	5.1	32.17	10.75	.0001	22.81	0.	SI
3965.	50.	3.	3.	-65047.!	- .3	18.7	32.17	10.75	.0005	15.54	.001	SI
4250.	335.	3.	1.	143340.!	-1.8!	82.8!	16.08	10.75	.0024	33.71	.008	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	160170.!	-2.!	92.5!	16.08	10.75	.0026	33.71	.009	SI
52.	52.	3.	1.	1322.!	0.	.8	16.08	10.75	0.	33.71	0.	SI
165.	165.	3.	1.	-65796.!	- .5	37.2	16.08	10.75	.0011	19.17	.002	SI
465.	465.	3.	3.	76951.!	- .7	22.4	32.17	10.75	.0006	22.81	.001	SI
> 465.	0.	3.	3.	97427.!	- .8	28.4	32.17	10.75	.0008	22.81	.002	SI
870.	405.	3.	3.	-820376.!	-4.2!	235.3!	32.17	10.75	.0067	15.54	.01	SI
> 870.	0.	3.	3.	185630.!	-1.6	54.1	32.17	10.75	.0015	22.81	.004	SI
1440.	570.	3.	1.	-1359552.!	-9.7!	769.7!	16.08	10.75	.0221	19.17	.042	SI
1740.	870.	3.	3.	1629737.!	-13.9!	475.1!	32.17	10.75	.0136	22.81	.031	SI
>1740.	0.	3.	3.	1180466.!	-10.1!	344.2!	32.17	10.75	.0098	22.81	.022	SI
2040.	300.	3.	1.	66442.!	- .8	38.4	16.08	10.75	.0011	33.71	.004	SI
2205.	465.	3.	3.	194260.!	-1.7	56.6	32.17	10.75	.0016	22.81	.004	SI
>2205.	0.	3.	3.	168769.!	-1.4	49.2	32.17	10.75	.0014	22.81	.003	SI
2325.	120.	3.	1.	170555.!	-2.1!	98.5!	16.08	10.75	.0028	33.71	.009	SI
2590.	385.	3.	3.	61391.!	- .5	17.9	32.17	10.75	.0005	22.81	.001	SI
2640.	435.	3.	3.	129543.!	-1.1	37.8	32.17	10.75	.0011	22.81	.002	SI
>2640.	0.	3.	3.	116956.!	-1.	34.1	32.17	10.75	.001	22.81	.002	SI
2842.	202.	3.	1.	145465.!	-1.8!	84.!	16.08	10.75	.0024	33.71	.008	SI
3019.	379.	3.	3.	14244.!	- .1	4.2	32.17	10.75	.0001	22.81	0.	SI
3045.	405.	3.	3.	58295.!	- .5	17.	32.17	10.75	.0005	22.81	.001	SI
>3045.	0.	3.	3.	56760.!	- .5	16.5	32.17	10.75	.0005	22.81	.001	SI
3147.	102.	3.	3.	94280.!	- .8	27.5	32.17	10.75	.0008	22.81	.002	SI
3165.	120.	3.	1.	79211.!	-1.!	45.8!	16.08	10.75	.0013	33.71	.004	SI
3428.	383.	3.	3.	-37962.!	- .2	10.9	32.17	10.75	.0003	15.54	0.	SI
3480.	435.	3.	3.	26409.!	- .2	7.7	32.17	10.75	.0002	22.81	.001	SI
>3480.	0.	3.	3.	22837.!	- .2	6.7	32.17	10.75	.0002	22.81	0.	SI
3582.	102.	3.	3.	63538.!	- .5	18.5	32.17	10.75	.0005	22.81	.001	SI
3600.	120.	3.	1.	48688.!	- .6	28.1!	16.08	10.75	.0008	33.71	.003	SI
3863.	383.	3.	3.	-71505.!	- .4	20.5	32.17	10.75	.0006	15.54	.001	SI
3915.	435.	3.	3.	-6990.!	0.	2.	32.17	10.75	.0001	15.54	0.	SI
>3915.	0.	3.	3.	10257.!	- .1	3.	32.17	10.75	.0001	22.81	0.	SI
3965.	50.	3.	3.	-60962.!	- .3	17.5	32.17	10.75	.0005	15.54	.001	SI
4250.	335.	3.	1.	141912.!	-1.8!	82.!	16.08	10.75	.0023	33.71	.008	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16
4	48.25	.67	32.17	.447	8d16 +8d16	16.08	.223	8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 4 - Travata Tf004 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinaLi= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acls=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam_max
1	A91	3	3	3	0	465.	405.	3.875	1.3	5.	129.755
2	A92	3	3	3	0	405.	405.	3.375	1.5	4.722	141.393
3	A93	3	3	3	0	540.	480.	4.5	1.5	2.919	87.392
4	A94	3	3	3	0	330.	330.	2.75	1.5	4.767	142.755
5	A95	3	3	3	0	465.	405.	3.875	1.5	5.	149.718
6	A96	3	3	3	0	435.	405.	3.625	1.5	5.	149.718
7	A97	3	3	3	0	405.	405.	3.375	1.5	5.	149.718
8	A98	3	3	3	0	435.	405.	3.625	1.5	5.	149.718
9	A99	3	3	3	0	435.	405.	3.625	1.5	5.	149.718
10	A100	3	3	3	0	335.	275.	2.792	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	
10.	SLU FON con SISMAX P16	
11.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-231823.	-.001	.006	-6877818.	-.039	.186	2.	.175	29.67	SI
0.	0.	3.	1.	1586903.	-.015	.044	6739557.	-.067	.186	2.	.266	4.247	SI
210.	210.	3.	1.	-1346834.	-.007	.036	-6877818.	-.039	.186	2.	.175	5.107	SI
364.	364.	3.	2.	-1086777.	-.005	.029	-6922260.	-.036	.186	2.	.161	6.37	SI
364.	364.	3.	2.	1468022.	-.011	.021	13017013.	-.111	.186	2.	.374	8.867	SI
383.	383.	3.	3.	1891176.	-.012	.026	13384511.	-.092	.186	2.	.331	7.077	SI
413.	413.	3.	3.	2560459.	-.017	.036	13384511.	-.092	.186	2.	.331	5.227	SI
465.	465.	3.	3.	-115755.	0.	.002	-13571814.	-.056	.186	2.	.23	117.2	SI
465.	465.	3.	3.	2560459.	-.017	.036	13384511.	-.092	.186	2.	.331	5.227	SI
> 465.	0.	3.	3.	-17991.	0.	0.	-13571814.	-.056	.186	2.	.23	754.4	SI
465.	0.	3.	3.	2834512.	-.018	.039	13384511.	-.092	.186	2.	.331	4.722	SI
551.	86.	3.	2.	-748881.	-.004	.02	-6922260.	-.036	.186	2.	.161	9.243	SI
551.	86.	3.	2.	1947947.	-.015	.028	13017013.	-.111	.186	2.	.374	6.682	SI
784.	319.	3.	2.	-3357741.	-.017	.09	-6922260.	-.036	.186	2.	.161	2.062	SI
870.	405.	3.	3.	-3727567.	-.015	.051	-13571814.	-.056	.186	2.	.23	3.641	SI
870.	405.	3.	3.	1582618.	-.01	.022	13384511.	-.092	.186	2.	.331	8.457	SI
> 870.	0.	3.	3.	-2829119.	-.011	.039	-13571814.	-.056	.186	2.	.23	4.797	SI
870.	0.	3.	3.	4585983.	-.03	.064	13384511.	-.092	.186	2.	.331	2.919	SI
971.	101.	3.	2.	-2580556.	-.013	.069	-6922260.	-.036	.186	2.	.161	2.682	SI
971.	101.	3.	2.	3378960.	-.026	.048	13017013.	-.111	.186	2.	.374	3.852	SI
1161.	291.	3.	1.	456605.	-.004	.013	6739557.	-.067	.186	2.	.266	14.76	SI
1410.	540.	3.	3.	-2765370.	-.011	.038	-13571814.	-.056	.186	2.	.23	4.908	SI
1410.	540.	3.	3.	4252668.	-.028	.059	13384511.	-.092	.186	2.	.331	3.147	SI
>1410.	0.	3.	3.	-4713386.	-.019	.065	-13571814.	-.056	.186	2.	.23	2.879	SI
1410.	0.	3.	3.	1856365.	-.012	.026	13384511.	-.092	.186	2.	.331	7.21	SI
1496.	86.	3.	1.	-4127653.	-.023	.112	-6877818.	-.039	.186	2.	.175	1.666	SI

1688.	278.	3.	3.	2807461.	-.018	.039	13384511.	-.092	.186	2.	.331	4.767	SI
1740.	330.	3.	3.	-61999.	0.	.001	-13571814.	-.056	.186	2.	.23	218.9	SI
1740.	330.	3.	3.	2807461.	-.018	.039	13384511.	-.092	.186	2.	.331	4.767	SI
>1740.	0.	3.	3.	2460464.	-.016	.034	13384511.	-.092	.186	2.	.331	5.44	SI
1755.	15.	3.	3.	-78310.	0.	.001	-13571814.	-.056	.186	2.	.23	173.3	SI
1841.	101.	3.	2.	-622183.	-.003	.017	-6922260.	-.036	.186	2.	.161	11.13	SI
1841.	101.	3.	2.	1485325.	-.011	.021	13017013.	-.111	.186	2.	.374	8.764	SI
1950.	210.	3.	1.	-755678.	-.004	.02	-6877818.	-.039	.186	2.	.175	9.102	SI
2175.	435.	3.	3.	-24491.	0.	0.	-13571814.	-.056	.186	2.	.23	554.1	SI
2205.	465.	3.	3.	2450003.	-.016	.034	13384511.	-.092	.186	2.	.331	5.463	SI
>2205.	0.	3.	3.	2470698.	-.016	.034	13384511.	-.092	.186	2.	.331	5.417	SI
2291.	86.	3.	2.	-232565.	-.001	.006	-6922260.	-.036	.186	2.	.161	29.77	SI
2291.	86.	3.	2.	1670583.	-.013	.024	13017013.	-.111	.186	2.	.374	7.792	SI
2442.	237.	3.	1.	-642131.	-.004	.017	-6877818.	-.039	.186	2.	.175	10.71	SI
2558.	353.	3.	3.	-405357.	-.002	.006	-13571814.	-.056	.186	2.	.23	33.48	SI
2610.	405.	3.	3.	-17209.	0.	0.	-13571814.	-.056	.186	2.	.23	788.6	SI
2640.	435.	3.	3.	1562094.	-.01	.022	13384511.	-.092	.186	2.	.331	8.568	SI
>2640.	0.	3.	3.	1574739.	-.01	.022	13384511.	-.092	.186	2.	.331	8.5	SI
2692.	52.	3.	3.	-176803.	-.001	.002	-13571814.	-.056	.186	2.	.23	76.76	SI
2726.	86.	3.	2.	-436925.	-.002	.012	-6922260.	-.036	.186	2.	.161	15.84	SI
2726.	86.	3.	2.	905769.	-.007	.013	13017013.	-.111	.186	2.	.374	14.37	SI
2842.	202.	3.	1.	-713789.	-.004	.019	-6877818.	-.039	.186	2.	.175	9.636	SI
2993.	353.	3.	3.	-152340.	-.001	.002	-13571814.	-.056	.186	2.	.23	89.09	SI
2993.	353.	3.	3.	1613514.	-.01	.022	13384511.	-.092	.186	2.	.331	8.295	SI
3045.	405.	3.	3.	1613514.	-.01	.022	13384511.	-.092	.186	2.	.331	8.295	SI
>3045.	0.	3.	3.	1635307.	-.011	.023	13384511.	-.092	.186	2.	.331	8.185	SI
3075.	30.	3.	3.	-95688.	0.	.001	-13571814.	-.056	.186	2.	.23	141.8	SI
3146.	101.	3.	2.	-605806.	-.003	.016	-6922260.	-.036	.186	2.	.161	11.43	SI
3146.	101.	3.	2.	650004.	-.005	.009	13017013.	-.111	.186	2.	.374	20.03	SI
3204.	159.	3.	1.	27821.	0.	.001	6739557.	-.067	.186	2.	.266	242.2	SI
3243.	198.	3.	1.	-741912.	-.004	.02	-6877818.	-.039	.186	2.	.175	9.27	SI
3428.	383.	3.	3.	2098662.	-.014	.029	13384511.	-.092	.186	2.	.331	6.378	SI
3480.	435.	3.	3.	2098662.	-.014	.029	13384511.	-.092	.186	2.	.331	6.378	SI
>3480.	0.	3.	3.	2054903.	-.013	.029	13384511.	-.092	.186	2.	.331	6.513	SI
3510.	30.	3.	3.	-76289.	0.	.001	-13571814.	-.056	.186	2.	.23	177.9	SI
3581.	101.	3.	2.	-760729.	-.004	.02	-6922260.	-.036	.186	2.	.161	9.1	SI
3581.	101.	3.	2.	918780.	-.007	.013	13017013.	-.111	.186	2.	.374	14.17	SI
3756.	276.	3.	1.	-1368433.	-.008	.037	-6877818.	-.039	.186	2.	.175	5.026	SI
3915.	435.	3.	3.	-1170594.	-.005	.016	-13571814.	-.056	.186	2.	.23	11.59	SI
3915.	435.	3.	3.	1836179.	-.012	.025	13384511.	-.092	.186	2.	.331	7.289	SI
>3915.	0.	3.	3.	-1076736.	-.004	.015	-13571814.	-.056	.186	2.	.23	12.61	SI
3915.	0.	3.	3.	1640115.	-.011	.023	13384511.	-.092	.186	2.	.331	8.161	SI
4016.	101.	3.	1.	-1155349.	-.006	.031	-6877818.	-.039	.186	2.	.175	5.953	SI
4198.	283.	3.	1.	1473928.	-.014	.041	6739557.	-.067	.186	2.	.266	4.573	SI
4235.	320.	3.	1.	-156334.	-.001	.004	-6877818.	-.039	.186	2.	.175	43.99	SI
4250.	335.	3.	1.	1473928.	-.014	.041	6739557.	-.067	.186	2.	.266	4.573	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-23534.	12430.	84441.	51204.	1.01	20.	2.5	SI
52.	52.	3.	-17543.	15191.	84441.	51204.	1.01	20.	2.5	SI
465.	465.	3.	26259.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 465.	0.	3.	-28612.	12430.	84441.	51204.	1.01	20.	2.5	SI
551.	86.	3.	-20618.	15191.	84441.	51204.	1.01	20.	2.5	SI
870.	405.	3.	-10843.	12430.	84441.	51204.	1.01	20.	2.5	SI
870.	405.	3.	16530.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 870.	0.	3.	-26912.	12430.	84441.	51204.	1.01	20.	2.5	SI
870.	0.	3.	4585.	12430.	84441.	51204.	1.01	20.	2.5	SI
971.	101.	3.	-20298.	15191.	84441.	51204.	1.01	20.	2.5	SI
1410.	540.	3.	-4904.	12430.	84441.	51204.	1.01	20.	2.5	SI
1410.	540.	3.	26310.	12430.	84441.	51204.	1.01	20.	2.5	SI
>1410.	0.	3.	-14353.	12430.	84441.	51204.	1.01	20.	2.5	SI
1410.	0.	3.	17287.	12430.	84441.	51204.	1.01	20.	2.5	SI
1496.	86.	3.	-8431.	15191.	84441.	51204.	1.01	20.	2.5	SI
1740.	330.	3.	30123.	12430.	84441.	51204.	1.01	20.	2.5	SI
>1740.	0.	3.	-23567.	12430.	84441.	51204.	1.01	20.	2.5	SI
1841.	101.	3.	-13807.	15191.	84441.	51204.	1.01	20.	2.5	SI
2205.	465.	3.	25280.	12430.	84441.	51204.	1.01	20.	2.5	SI
>2205.	0.	3.	-26597.	12430.	84441.	51204.	1.01	20.	2.5	SI
2257.	52.	3.	-20766.	15191.	84441.	51204.	1.01	20.	2.5	SI
2640.	435.	3.	22462.	12430.	84441.	51204.	1.01	20.	2.5	SI
>2640.	0.	3.	-22646.	12430.	84441.	51204.	1.01	20.	2.5	SI
2726.	86.	3.	-12978.	15191.	84441.	51204.	1.01	20.	2.5	SI
3045.	405.	3.	22797.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3045.	0.	3.	-23176.	12430.	84441.	51204.	1.01	20.	2.5	SI
3146.	101.	3.	-11924.	15191.	84441.	51204.	1.01	20.	2.5	SI
3480.	435.	3.	25173.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3480.	0.	3.	-26181.	12430.	84441.	51204.	1.01	20.	2.5	SI
3581.	101.	3.	-15163.	15191.	84441.	51204.	1.01	20.	2.5	SI
3915.	435.	3.	20411.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3915.	0.	3.	-15755.	12430.	84441.	51204.	1.01	20.	2.5	SI
4016.	101.	3.	-5615.	15191.	84441.	51204.	1.01	20.	2.5	SI
4250.	335.	3.	20098.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	1071082.	-13.2	618.7	16.08	10.75	.0177	33.71	.06	SI
52.	52.	3.	1.	320316.	-4.	185.	16.08	10.75	.0053	33.71	.018	SI
210.	210.	3.	1.	-663131.	-4.7	375.4	16.08	10.75	.0107	19.17	.021	SI
465.	465.	3.	3.	1797738.	-15.3	524.1	32.17	10.75	.015	22.81	.034	SI
> 465.	0.	3.	3.	1989717.	-17.	580.1	32.17	10.75	.0166	22.81	.038	SI
784.	319.	3.	2.	-1334928.	-8.8	752.4	16.08	10.75	.0215	19.17	.041	SI
818.	353.	3.	3.	-1352129.	-6.8	387.8	32.17	10.75	.0111	15.54	.017	SI
870.	405.	3.	3.	-1255463.	-6.4	360.	32.17	10.75	.0103	15.54	.016	SI
> 870.	0.	3.	3.	1073453.	-9.1	313.	32.17	10.75	.0089	22.81	.02	SI
1161.	291.	3.	1.	-901689.	-6.4	510.5	16.08	10.75	.0146	19.17	.028	SI
1410.	540.	3.	3.	899208.	-7.7	262.2	32.17	10.75	.0075	22.81	.017	SI
>1410.	0.	3.	3.	-1824762.	-9.2	523.3	32.17	10.75	.0162	15.54	.025	SI
1496.	86.	3.	1.	-1399653.	-10.	792.4	16.08	10.75	.0232	19.17	.044	SI
1740.	330.	3.	3.	1992982.	-17.	581.	32.17	10.75	.0166	22.81	.038	SI
>1740.	0.	3.	3.	1751220.	-14.9	510.5	32.17	10.75	.0146	22.81	.033	SI
1995.	255.	3.	1.	-291396.	-2.1	165.	16.08	10.75	.0047	19.17	.009	SI
2205.	465.	3.	3.	1741313.	-14.8	507.7	32.17	10.75	.0145	22.81	.033	SI
>2205.	0.	3.	3.	1758704.	-15.	512.7	32.17	10.75	.0146	22.81	.033	SI
2442.	237.	3.	1.	-458851.	-3.3	259.8	16.08	10.75	.0074	19.17	.014	SI
2640.	435.	3.	3.	1113844.	-9.5	324.7	32.17	10.75	.0093	22.81	.021	SI
>2640.	0.	3.	3.	1125738.	-9.6	328.2	32.17	10.75	.0094	22.81	.021	SI
2842.	202.	3.	1.	-508325.	-3.6	287.8	16.08	10.75	.0082	19.17	.016	SI
3045.	405.	3.	3.	1149257.	-9.8	335.1	32.17	10.75	.0096	22.81	.022	SI
>3045.	0.	3.	3.	1168013.	-10.	340.5	32.17	10.75	.0097	22.81	.022	SI
3243.	198.	3.	1.	-535504.	-3.8	303.2	16.08	10.75	.0087	19.17	.017	SI
3480.	435.	3.	3.	1480113.	-12.6	431.5	32.17	10.75	.0123	22.81	.028	SI
>3480.	0.	3.	3.	1452412.	-12.4	423.4	32.17	10.75	.0121	22.81	.028	SI
3717.	237.	3.	1.	-786804.	-5.6	445.4	16.08	10.75	.0127	19.17	.024	SI
3915.	435.	3.	3.	605032.	-5.2	176.4	32.17	10.75	.005	22.81	.011	SI
>3915.	0.	3.	3.	536232.	-4.6	156.3	32.17	10.75	.0045	22.81	.01	SI
4067.	152.	3.	1.	-312678.	-2.2	177.	16.08	10.75	.0051	19.17	.01	SI
4250.	335.	3.	1.	1004841.	-12.4	580.5	16.08	10.75	.0166	33.71	.056	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	1073261.	-13.3	620.	16.08	10.75	.0177	33.71	.06	SI
52.	52.	3.	1.	371880.	-4.6	214.8	16.08	10.75	.0061	33.71	.021	SI
210.	210.	3.	1.	-574094.	-4.1	325.	16.08	10.75	.0093	19.17	.018	SI
465.	465.	3.	3.	1430120.	-12.2	416.9	32.17	10.75	.0119	22.81	.027	SI
> 465.	0.	3.	3.	1599973.	-13.6	466.5	32.17	10.75	.0133	22.81	.03	SI
784.	319.	3.	2.	-1197747.	-7.9	675.1	16.08	10.75	.0193	19.17	.037	SI
818.	353.	3.	3.	-1210301.	-6.1	347.1	32.17	10.75	.0099	15.54	.015	SI
870.	405.	3.	3.	-1118323.	-5.7	320.7	32.17	10.75	.0092	15.54	.014	SI
> 870.	0.	3.	3.	920551.	-7.8	268.4	32.17	10.75	.0077	22.81	.017	SI
1161.	291.	3.	1.	-702097.	-5.	397.5	16.08	10.75	.0114	19.17	.022	SI
1410.	540.	3.	3.	770772.	-6.6	224.7	32.17	10.75	.0064	22.81	.015	SI
>1410.	0.	3.	3.	-1528426.	-7.7	438.3	32.17	10.75	.0125	15.54	.019	SI
1496.	86.	3.	1.	-1209298.	-8.6	684.6	16.08	10.75	.0196	19.17	.038	SI
1740.	330.	3.	3.	1635601.	-13.9	476.8	32.17	10.75	.0136	22.81	.031	SI
>1740.	0.	3.	3.	1448118.	-12.3	422.2	32.17	10.75	.0121	22.81	.028	SI
1995.	255.	3.	1.	-250116.	-1.8	141.6	16.08	10.75	.004	19.17	.008	SI
2205.	465.	3.	3.	1485886.	-12.7	433.2	32.17	10.75	.0124	22.81	.028	SI
>2205.	0.	3.	3.	1500774.	-12.8	437.5	32.17	10.75	.0125	22.81	.029	SI
2442.	237.	3.	1.	-396708.	-2.8	224.6	16.08	10.75	.0064	19.17	.012	SI
2640.	435.	3.	3.	968750.	-8.3	282.4	32.17	10.75	.0081	22.81	.018	SI
>2640.	0.	3.	3.	977433.	-8.3	285.	32.17	10.75	.0081	22.81	.019	SI
2842.	202.	3.	1.	-436135.	-3.1	246.9	16.08	10.75	.0071	19.17	.014	SI
3045.	405.	3.	3.	993870.	-8.5	289.8	32.17	10.75	.0083	22.81	.019	SI
>3045.	0.	3.	3.	1006491.	-8.6	293.4	32.17	10.75	.0084	22.81	.019	SI
3243.	198.	3.	1.	-486819.	-3.5	275.6	16.08	10.75	.0079	19.17	.015	SI
3480.	435.	3.	3.	1227572.	-10.5	357.9	32.17	10.75	.0102	22.81	.023	SI
>3480.	0.	3.	3.	1191426.	-10.2	347.3	32.17	10.75	.0099	22.81	.023	SI
3717.	237.	3.	1.	-728905.	-5.2	412.7	16.08	10.75	.0118	19.17	.023	SI
3915.	435.	3.	3.	527198.	-4.5	153.7	32.17	10.75	.0044	22.81	.01	SI
>3915.	0.	3.	3.	436629.	-3.7	127.3	32.17	10.75	.0036	22.81	.008	SI
4067.	152.	3.	1.	-255625.	-1.8	144.7	16.08	10.75	.0041	19.17	.008	SI
4250.	335.	3.	1.	1022010.	-12.6	590.4	16.08	10.75	.0169	33.71	.057	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	1075385.	-13.3	621.2	16.08	10.75	.0177	33.71	.06	SI
52.	52.	3.	1.	391418.	-4.8	226.1	16.08	10.75	.0065	33.71	.022	SI
210.	210.	3.	1.	-543754.	-3.9	307.8	16.08	10.75	.0088	19.17	.017	SI
465.	465.	3.	3.	1303995.	-11.1	380.2	32.17	10.75	.0109	22.81	.025	SI
> 465.	0.	3.	3.	1467204.	-12.5	427.7	32.17	10.75	.0122	22.81	.028	SI
784.	319.	3.	2.	-1152913.	-7.6	649.8	16.08	10.75	.0186	19.17	.036	SI
818.	353.	3.	3.	-1163329.	-5.9	333.6	32.17	10.75	.0095	15.54	.015	SI
870.	405.	3.	3.	-1072475.	-5.4	307.6	32.17	10.75	.0088	15.54	.014	SI
> 870.	0.	3.	3.	878432.	-7.5	256.1	32.17	10.75	.0073	22.81	.017	SI
1161.	291.	3.	1.	-635029.	-4.5	359.5	16.08	10.75	.0103	19.17	.02	SI
1410.	540.	3.	3.	743649.	-6.3	216.8	32.17	10.75	.0062	22.81	.014	SI

>1410.	0.	3.	3.	-1428511.!	-7.2!	409.7!	32.17!	10.75!	.0117!	15.54!	.018!	SI
1496.	86.	3.	1.	-1143912.!	-8.2!	647.6!	16.08!	10.75!	.0185!	19.17!	.035!	SI
1740.	330.	3.	3.	1515863.!	-12.9!	441.9!	32.17!	10.75!	.0126!	22.81!	.029!	SI
>1740.	0.	3.	3.	1346677.!	-11.5!	392.6!	32.17!	10.75!	.0112!	22.81!	.026!	SI
1995.	255.	3.	1.	-238409.!	-1.7!	135.	16.08!	10.75!	.0039!	19.17!	.007!	SI
2205.	465.	3.	3.	1398396.!	-11.9!	407.7!	32.17!	10.75!	.0116!	22.81!	.027!	SI
>2205.	0.	3.	3.	1411638.!	-12.!	411.5!	32.17!	10.75!	.0118!	22.81!	.027!	SI
2442.	237.	3.	1.	-375359.!	-2.7!	212.5!	16.08!	10.75!	.0061!	19.17!	.012!	SI
2640.	435.	3.	3.	917976.!	-7.8!	267.6!	32.17!	10.75!	.0076!	22.81!	.017!	SI
>2640.	0.	3.	3.	925050.!	-7.9!	269.7!	32.17!	10.75!	.0077!	22.81!	.018!	SI
2842.	202.	3.	1.	-411622.!	-2.9!	233.	16.08!	10.75!	.0067!	19.17!	.013!	SI
3045.	405.	3.	3.	938999.!	-8.!	273.8!	32.17!	10.75!	.0078!	22.81!	.018!	SI
>3045.	0.	3.	3.	948912.!	-8.1!	276.6!	32.17!	10.75!	.0079!	22.81!	.018!	SI
3243.	198.	3.	1.	-471270.!	-3.4!	266.8!	16.08!	10.75!	.0076!	19.17!	.015!	SI
3480.	435.	3.	3.	1138593.!	-9.7!	331.9!	32.17!	10.75!	.0095!	22.81!	.022!	SI
>3480.	0.	3.	3.	1099354.!	-9.4!	320.5!	32.17!	10.75!	.0092!	22.81!	.021!	SI
3717.	237.	3.	1.	-709115.!	-5.1!	401.5!	16.08!	10.75!	.0115!	19.17!	.022!	SI
3915.	435.	3.	3.	502811.!	-4.3!	146.6!	32.17!	10.75!	.0042!	22.81!	.01!	SI
>3915.	0.	3.	3.	404221.!	-3.4!	117.8!	32.17!	10.75!	.0034!	22.81!	.008!	SI
4067.	152.	3.	1.	-235688.!	-1.7!	133.4!	16.08!	10.75!	.0038!	19.17!	.007!	SI
4250.	335.	3.	1.	1028488.!	-12.7!	594.1!	16.08!	10.75!	.017!	33.71!	.057!	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

#### VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 5 - Travata Tf005 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinale= 4.3 ; staffe= 3.5

#### MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc=1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

#### TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

#### SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

#### DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A125	3	3	3	0	465.	365.	3.875	1.3	5.	129.755
2	A129	3	3	3	0	405.	405.	3.375	1.5	5.	149.718
3	A134	3	3	3	0	435.	370.	3.621	1.5	5.	149.718
4	A136	3	3	3	0	435.	420.	3.629	1.5	5.	149.718
5	A139	3	3	3	0	482.	417.	4.02	1.5	5.	149.718
6	A144	3	3	3	0	418.	353.	3.48	1.5	5.	149.718
7	A148	3	3	3	0	405.	405.	3.375	1.5	5.	149.718
8	A152	3	3	3	0	435.	405.	3.625	1.5	5.	149.718
9	A156	3	3	3	0	435.	405.	3.625	1.5	5.	149.718
10	A159	3	3	3	0	335.	275.	2.792	1.3	5.	129.755

#### CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	
10.	SLU FON con SISMAX P16	
11.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			



VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	439687.	-.004	.012	6739557.	-.067	.186	2.	.266	15.33	SI
102.	102.	3. 1.	-28455.	0.	.001	-6877818.	-.039	.186	2.	.175	241.7	SI
363.	363.	3. 2.	-112544.	0.	.002	-13571814.	-.056	.186	2.	.23	120.6	SI
363.	363.	3. 2.	161173.	-.001	.002	13384511.	-.092	.186	2.	.331	83.05	SI
465.	465.	3. 2.	-111624.	0.	.002	-13571814.	-.056	.186	2.	.23	121.6	SI
465.	465.	3. 2.	86389.	-.001	.001	13384511.	-.092	.186	2.	.331	154.9	SI
> 465.	0.	3. 2.	-44461.	0.	.001	-13571814.	-.056	.186	2.	.23	305.3	SI
465.	0.	3. 2.	24150.	0.	0.	13384511.	-.092	.186	2.	.331	554.2	SI
551.	86.	3. 3.	-51936.	0.	.001	-6922260.	-.036	.186	2.	.161	133.3	SI
551.	86.	3. 3.	190798.	-.001	.003	13017013.	-.111	.186	2.	.374	68.22	SI
626.	161.	3. 1.	-6776.	0.	0.	-6877818.	-.039	.186	2.	.175	1015.	SI
668.	202.	3. 1.	302922.	-.003	.008	6739557.	-.067	.186	2.	.266	22.25	SI
844.	379.	3. 2.	-236782.	-.001	.003	-13571814.	-.056	.186	2.	.23	57.32	SI
870.	405.	3. 2.	-232880.	-.001	.003	-13571814.	-.056	.186	2.	.23	58.28	SI
870.	405.	3. 2.	249228.	-.002	.003	13384511.	-.092	.186	2.	.331	53.7	SI
> 870.	0.	3. 2.	-278485.	-.001	.004	-13571814.	-.056	.186	2.	.23	48.73	SI
870.	0.	3. 2.	244280.	-.002	.003	13384511.	-.092	.186	2.	.331	54.79	SI
1107.	237.	3. 1.	-458872.	-.003	.012	-6877818.	-.039	.186	2.	.175	14.99	SI
1185.	315.	3. 1.	729515.	-.007	.02	6739557.	-.067	.186	2.	.266	9.238	SI
1211.	341.	3. 3.	-350878.	-.002	.009	-6922260.	-.036	.186	2.	.161	19.73	SI
1211.	341.	3. 3.	664688.	-.005	.009	13017013.	-.111	.186	2.	.374	19.58	SI
1252.	382.	3. 2.	1050151.	-.007	.015	13384511.	-.092	.186	2.	.331	12.75	SI
1271.	401.	3. 2.	-18332.	0.	0.	-13571814.	-.056	.186	2.	.23	740.3	SI
1305.	435.	3. 2.	1050151.	-.007	.015	13384511.	-.092	.186	2.	.331	12.75	SI
> 1305.	0.	3. 2.	-457865.	-.002	.006	-13571814.	-.056	.186	2.	.23	29.64	SI
1305.	0.	3. 2.	1210851.	-.008	.017	13384511.	-.092	.186	2.	.331	11.05	SI
1398.	94.	3. 3.	-1164835.	-.006	.031	-6922260.	-.036	.186	2.	.161	5.943	SI
1398.	94.	3. 3.	1491383.	-.012	.021	13017013.	-.111	.186	2.	.374	8.728	SI
1464.	159.	3. 1.	1472079.	-.014	.041	6739557.	-.067	.186	2.	.266	4.578	SI
1503.	198.	3. 1.	-1240855.	-.007	.034	-6877818.	-.039	.186	2.	.175	5.543	SI
1740.	435.	3. 2.	-259148.	-.001	.004	-13571814.	-.056	.186	2.	.23	52.37	SI
1740.	435.	3. 2.	1138923.	-.007	.016	13384511.	-.092	.186	2.	.331	11.75	SI
> 1740.	0.	3. 2.	-528232.	-.002	.007	-13571814.	-.056	.186	2.	.23	25.69	SI
1740.	0.	3. 2.	631468.	-.004	.009	13384511.	-.092	.186	2.	.331	21.2	SI
1817.	77.	3. 3.	239334.	-.002	.003	13384511.	-.092	.186	2.	.331	55.92	SI
1860.	120.	3. 2.	-1646478.	-.008	.044	-6922260.	-.036	.186	2.	.161	4.204	SI
1941.	201.	3. 1.	-1732209.	-.01	.047	-6877818.	-.039	.186	2.	.175	3.971	SI
2102.	362.	3. 3.	905959.	-.007	.013	13017013.	-.111	.186	2.	.374	14.37	SI
2170.	430.	3. 2.	1370742.	-.009	.019	13384511.	-.092	.186	2.	.331	9.764	SI
2222.	482.	3. 2.	-352219.	-.001	.005	-13571814.	-.056	.186	2.	.23	38.53	SI
2222.	482.	3. 2.	1370742.	-.009	.019	13384511.	-.092	.186	2.	.331	9.764	SI
> 2222.	0.	3. 2.	966789.	-.006	.013	13384511.	-.092	.186	2.	.331	13.84	SI
2316.	94.	3. 3.	691320.	-.005	.01	13017013.	-.111	.186	2.	.374	18.83	SI
2342.	120.	3. 1.	-6993.	0.	0.	-6877818.	-.039	.186	2.	.175	983.5	SI
2342.	120.	3. 1.	569163.	-.005	.016	6739557.	-.067	.186	2.	.266	11.84	SI
2538.	316.	3. 2.	-93117.	0.	.001	-13571814.	-.056	.186	2.	.23	145.8	SI
2640.	418.	3. 2.	-92947.	0.	.001	-13571814.	-.056	.186	2.	.23	146.	SI
2640.	418.	3. 2.	170676.	-.001	.002	13384511.	-.092	.186	2.	.331	78.42	SI
> 2640.	0.	3. 2.	-86388.	0.	.001	-13571814.	-.056	.186	2.	.23	157.1	SI
2640.	0.	3. 2.	176446.	-.001	.002	13384511.	-.092	.186	2.	.331	75.86	SI
2666.	26.	3. 2.	-107278.	0.	.001	-13571814.	-.056	.186	2.	.23	126.5	SI
2726.	86.	3. 3.	-98702.	0.	.003	-6922260.	-.036	.186	2.	.161	70.13	SI
2726.	86.	3. 3.	287072.	-.002	.004	13017013.	-.111	.186	2.	.374	45.34	SI
2842.	202.	3. 1.	398169.	-.004	.011	6739557.	-.067	.186	2.	.266	16.93	SI
2925.	285.	3. 1.	-4265.	0.	0.	-6877818.	-.039	.186	2.	.175	1613.	SI
3045.	405.	3. 2.	-49742.	0.	.001	-13571814.	-.056	.186	2.	.23	272.8	SI
3045.	405.	3. 2.	160845.	-.001	.002	13384511.	-.092	.186	2.	.331	83.21	SI
> 3045.	0.	3. 2.	-126223.	0.	.002	-13571814.	-.056	.186	2.	.23	107.5	SI
3045.	0.	3. 2.	178967.	-.001	.002	13384511.	-.092	.186	2.	.331	74.79	SI
3060.	15.	3. 2.	-106327.	0.	.001	-13571814.	-.056	.186	2.	.23	127.6	SI
3146.	101.	3. 3.	-126381.	-.001	.003	-6922260.	-.036	.186	2.	.161	54.77	SI
3146.	101.	3. 3.	307084.	-.002	.004	13017013.	-.111	.186	2.	.374	42.39	SI
3360.	315.	3. 1.	322778.	-.003	.009	6739557.	-.067	.186	2.	.266	20.88	SI
3480.	435.	3. 2.	-131899.	-.001	.002	-13571814.	-.056	.186	2.	.23	102.9	SI
3480.	435.	3. 2.	225622.	-.001	.003	13384511.	-.092	.186	2.	.331	59.32	SI
> 3480.	0.	3. 2.	-188522.	-.001	.003	-13571814.	-.056	.186	2.	.23	71.99	SI
3480.	0.	3. 2.	255334.	-.002	.004	13384511.	-.092	.186	2.	.331	52.42	SI
3495.	15.	3. 2.	-165174.	-.001	.002	-13571814.	-.056	.186	2.	.23	82.17	SI
3581.	101.	3. 3.	-188055.	-.001	.005	-6922260.	-.036	.186	2.	.161	36.81	SI
3581.	101.	3. 3.	351353.	-.003	.005	13017013.	-.111	.186	2.	.374	37.05	SI
3795.	315.	3. 1.	353401.	-.003	.01	6739557.	-.067	.186	2.	.266	19.07	SI
3889.	409.	3. 2.	-358276.	-.001	.005	-13571814.	-.056	.186	2.	.23	37.88	SI
3915.	435.	3. 2.	-339565.	-.001	.005	-13571814.	-.056	.186	2.	.23	39.97	SI
3915.	435.	3. 2.	304545.	-.002	.004	13384511.	-.092	.186	2.	.331	43.95	SI
> 3915.	0.	3. 2.	-289106.	-.001	.004	-13571814.	-.056	.186	2.	.23	46.94	SI
3915.	0.	3. 2.	289871.	-.002	.004	13384511.	-.092	.186	2.	.331	46.17	SI
3945.	30.	3. 2.	-311044.	-.001	.004	-13571814.	-.056	.186	2.	.23	43.63	SI
4016.	101.	3. 1.	-292186.	-.002	.008	-6877818.	-.039	.186	2.	.175	23.54	SI
4149.	234.	3. 1.	-65722.	0.	.002	-6877818.	-.039	.186	2.	.175	104.6	SI
4198.	283.	3. 1.	465949.	-.004	.013	6739557.	-.067	.186	2.	.266	14.46	SI
4250.	335.	3. 1.	465949.	-.004	.013	6739557.	-.067	.186	2.	.266	14.46	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-9311.	12430.	84441.	51204.	1.01	20.	2.5	SI
50.	50.	3.	-2893.	15191.	84441.	51204.	1.01	20.	2.5	SI
345.	345.	3.	8028.	15191.	84441.	51204.	1.01	20.	2.5	SI
465.	465.	3.	5800.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 465.	0.	3.	-3561.	12430.	84441.	51204.	1.01	20.	2.5	SI
517.	52.	3.	3070.	15191.	84441.	51204.	1.01	20.	2.5	SI
551.	86.	3.	7365.	15191.	84441.	51204.	1.01	20.	2.5	SI
784.	319.	3.	-7261.	15191.	84441.	51204.	1.01	20.	2.5	SI
870.	405.	3.	3479.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 870.	0.	3.	-4543.	12430.	84441.	51204.	1.01	20.	2.5	SI
972.	102.	3.	8137.	15191.	84441.	51204.	1.01	20.	2.5	SI
1290.	420.	3.	14002.	12430.	84441.	51204.	1.01	20.	2.5	SI
1305.	435.	3.	-7343.	12430.	84441.	51204.	1.01	20.	2.5	SI
1305.	435.	3.	13131.	12430.	84441.	51204.	1.01	20.	2.5	SI
>1305.	0.	3.	-16819.	12430.	84441.	51204.	1.01	20.	2.5	SI
1305.	0.	3.	1411.	12430.	84441.	51204.	1.01	20.	2.5	SI
1398.	94.	3.	-10973.	15191.	84441.	51204.	1.01	20.	2.5	SI
1740.	435.	3.	19905.	12430.	84441.	51204.	1.01	20.	2.5	SI
>1740.	0.	3.	-22096.	12430.	84441.	51204.	1.01	20.	2.5	SI
1842.	102.	3.	-11727.	15191.	84441.	51204.	1.01	20.	2.5	SI
2170.	430.	3.	22335.	12430.	84441.	51204.	1.01	20.	2.5	SI
2222.	482.	3.	21501.	12430.	84441.	51204.	1.01	20.	2.5	SI
>2222.	0.	3.	6425.	12430.	84441.	51204.	1.01	20.	2.5	SI
2237.	15.	3.	-7983.	12430.	84441.	51204.	1.01	20.	2.5	SI
2256.	34.	3.	-6700.	15191.	84441.	51204.	1.01	20.	2.5	SI
2640.	418.	3.	4651.	12430.	84441.	51204.	1.01	20.	2.5	SI
>2640.	0.	3.	-3197.	12430.	84441.	51204.	1.01	20.	2.5	SI
2692.	52.	3.	3148.	15191.	84441.	51204.	1.01	20.	2.5	SI
2726.	86.	3.	7235.	15191.	84441.	51204.	1.01	20.	2.5	SI
2959.	319.	3.	-7092.	15191.	84441.	51204.	1.01	20.	2.5	SI
3045.	405.	3.	3630.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3045.	0.	3.	-4890.	12430.	84441.	51204.	1.01	20.	2.5	SI
3146.	101.	3.	7701.	15191.	84441.	51204.	1.01	20.	2.5	SI
3165.	120.	3.	-5954.	15191.	84441.	51204.	1.01	20.	2.5	SI
3480.	435.	3.	4963.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3480.	0.	3.	-5158.	12430.	84441.	51204.	1.01	20.	2.5	SI
3581.	101.	3.	7267.	15191.	84441.	51204.	1.01	20.	2.5	SI
3600.	120.	3.	-6413.	15191.	84441.	51204.	1.01	20.	2.5	SI
3915.	435.	3.	5042.	12430.	84441.	51204.	1.01	20.	2.5	SI
>3915.	0.	3.	-4325.	12430.	84441.	51204.	1.01	20.	2.5	SI
4016.	101.	3.	7465.	15191.	84441.	51204.	1.01	20.	2.5	SI
4035.	120.	3.	-5286.	15191.	84441.	51204.	1.01	20.	2.5	SI
4250.	335.	3.	8458.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	293236.	-3.6	169.4	16.08	10.75	.0048	33.71	.016	SI
50.	50.	3.	1.	83494.	-1.	48.2	16.08	10.75	.0014	33.71	.005	SI
415.	415.	3.	2.	-39420.	-2	11.3	32.17	10.75	.0003	15.54	.001	SI
465.	465.	3.	2.	56012.	-5	16.3	32.17	10.75	.0005	22.81	.001	SI
> 465.	0.	3.	2.	6046.	-1	1.8	32.17	10.75	.0001	22.81	0.	SI
491.	26.	3.	2.	-29905.	-2	8.6	32.17	10.75	.0002	15.54	0.	SI
668.	202.	3.	1.	213662.	-2.6	123.4	16.08	10.75	.0035	33.71	.012	SI
870.	405.	3.	2.	33688.	-3	9.8	32.17	10.75	.0003	22.81	.001	SI
> 870.	0.	3.	2.	46743.	-4	13.6	32.17	10.75	.0004	22.81	.001	SI
895.	25.	3.	2.	-24451.	-1	7.	32.17	10.75	.0002	15.54	0.	SI
1185.	315.	3.	1.	290745.	-3.6	168.	16.08	10.75	.0048	33.71	.016	SI
1305.	435.	3.	2.	717662.	-6.1	209.2	32.17	10.75	.006	22.81	.014	SI
>1305.	0.	3.	2.	752133.	-6.4	219.3	32.17	10.75	.0063	22.81	.014	SI
1542.	237.	3.	1.	-535993.	-3.8	303.4	16.08	10.75	.0087	19.17	.017	SI
1740.	435.	3.	2.	785364.	-6.7	229.	32.17	10.75	.0065	22.81	.015	SI
>1740.	0.	3.	2.	426918.	-3.6	124.5	32.17	10.75	.0036	22.81	.008	SI
1941.	201.	3.	1.	-1248174.	-8.9	706.6	16.08	10.75	.0202	19.17	.039	SI
2222.	482.	3.	2.	827380.	-7.	241.2	32.17	10.75	.0069	22.81	.016	SI
>2222.	0.	3.	2.	540098.	-4.6	157.5	32.17	10.75	.0045	22.81	.01	SI
2342.	120.	3.	1.	360501.	-4.5	208.3	16.08	10.75	.006	33.71	.02	SI
2590.	368.	3.	2.	52930.	-5	15.4	32.17	10.75	.0004	22.81	.001	SI
2640.	418.	3.	2.	109024.	-9	31.8	32.17	10.75	.0009	22.81	.002	SI
>2640.	0.	3.	2.	71509.	-6	20.8	32.17	10.75	.0006	22.81	.001	SI
2666.	26.	3.	2.	42960.	-4	12.5	32.17	10.75	.0004	22.81	.001	SI
2842.	202.	3.	1.	283584.	-3.5	163.8	16.08	10.75	.0047	33.71	.016	SI
3045.	405.	3.	2.	103235.	-9	30.1	32.17	10.75	.0009	22.81	.002	SI
>3045.	0.	3.	2.	101970.	-9	29.7	32.17	10.75	.0008	22.81	.002	SI
3075.	30.	3.	2.	42360.	-4	12.3	32.17	10.75	.0004	22.81	.001	SI
3360.	315.	3.	1.	224874.	-2.8	129.9	16.08	10.75	.0037	33.71	.013	SI
3480.	435.	3.	2.	132817.	-1.1	38.7	32.17	10.75	.0011	22.81	.003	SI
>3480.	0.	3.	2.	141889.	-1.2	41.4	32.17	10.75	.0012	22.81	.003	SI
3581.	101.	3.	3.	224560.	-2.2	66.7	32.17	10.75	.0019	22.81	.004	SI
3600.	120.	3.	1.	210068.	-2.6	121.4	16.08	10.75	.0035	33.71	.012	SI
3889.	409.	3.	2.	-59087.	-3	16.9	32.17	10.75	.0005	15.54	.001	SI

3915.	435.	3.	2.	-8158.	0.	2.3	32.17	10.75	.0001	15.54	0.	SI
>3915.	0.	3.	2.	29634.	-3	8.6	32.17	10.75	.0002	22.81	.001	SI
3945.	30.	3.	2.	-41115.	-2	11.8	32.17	10.75	.0003	15.54	.001	SI
4250.	335.	3.	1.	310416.	-3.8	179.3	16.08	10.75	.0051	33.71	.017	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	293141.	-3.6	169.3	16.08	10.75	.0048	33.71	.016	SI
50.	50.	3.	1.	98248.	-1.2	56.8	16.08	10.75	.0016	33.71	.005	SI
415.	415.	3.	2.	-40434.	-2	11.6	32.17	10.75	.0003	15.54	.001	SI
465.	465.	3.	2.	37442.	-3	10.9	32.17	10.75	.0003	22.81	.001	SI
> 465.	0.	3.	2.	-6463.	0.	1.9	32.17	10.75	.0001	15.54	0.	SI
491.	26.	3.	2.	-35861.	-2	10.3	32.17	10.75	.0003	15.54	0.	SI
668.	202.	3.	1.	183161.	-2.3	105.8	16.08	10.75	.003	33.71	.01	SI
870.	405.	3.	2.	14607.	-1	4.3	32.17	10.75	.0001	22.81	0.	SI
> 870.	0.	3.	2.	26392.	-2	7.7	32.17	10.75	.0002	22.81	.001	SI
895.	25.	3.	2.	-22529.	-1	6.5	32.17	10.75	.0002	15.54	0.	SI
1185.	315.	3.	1.	253739.	-3.1	146.6	16.08	10.75	.0042	33.71	.014	SI
1305.	435.	3.	2.	642178.	-5.5	187.2	32.17	10.75	.0053	22.81	.012	SI
>1305.	0.	3.	2.	697830.	-5.9	203.4	32.17	10.75	.0058	22.81	.013	SI
1581.	276.	3.	1.	-467354.	-3.3	264.6	16.08	10.75	.0076	19.17	.014	SI
1740.	435.	3.	2.	573673.	-4.9	167.2	32.17	10.75	.0048	22.81	.011	SI
>1740.	0.	3.	2.	265176.	-2.3	77.3	32.17	10.75	.0022	22.81	.005	SI
1941.	201.	3.	1.	-1124799.	-8.	636.8	16.08	10.75	.0182	19.17	.035	SI
2222.	482.	3.	2.	740788.	-6.3	216.	32.17	10.75	.0062	22.81	.014	SI
>2222.	0.	3.	2.	495102.	-4.2	144.3	32.17	10.75	.0041	22.81	.009	SI
2342.	120.	3.	1.	312239.	-3.9	180.4	16.08	10.75	.0052	33.71	.017	SI
2615.	393.	3.	2.	37205.	-3	10.8	32.17	10.75	.0003	22.81	.001	SI
2640.	418.	3.	2.	83950.	-7	24.5	32.17	10.75	.0007	22.81	.002	SI
>2640.	0.	3.	2.	52522.	-4	15.3	32.17	10.75	.0004	22.81	.001	SI
2666.	26.	3.	2.	27130.	-2	7.9	32.17	10.75	.0002	22.81	.001	SI
2842.	202.	3.	1.	237559.	-2.9	137.2	16.08	10.75	.0039	33.71	.013	SI
3045.	405.	3.	2.	73308.	-6	21.4	32.17	10.75	.0006	22.81	.001	SI
>3045.	0.	3.	2.	68349.	-6	19.9	32.17	10.75	.0006	22.81	.001	SI
3075.	30.	3.	2.	15990.	-1	4.7	32.17	10.75	.0001	22.81	0.	SI
3360.	315.	3.	1.	177695.	-2.2	102.7	16.08	10.75	.0029	33.71	.01	SI
3480.	435.	3.	2.	87828.	-7	25.6	32.17	10.75	.0007	22.81	.002	SI
>3480.	0.	3.	2.	91180.	-8	26.6	32.17	10.75	.0008	22.81	.002	SI
3581.	101.	3.	3.	175944.	-1.7	52.3	32.17	10.75	.0015	22.81	.003	SI
3600.	120.	3.	1.	164365.	-2.	95.	16.08	10.75	.0027	33.71	.009	SI
3889.	409.	3.	2.	-57039.	-3	16.4	32.17	10.75	.0005	15.54	.001	SI
3915.	435.	3.	2.	-13781.	-1	4.	32.17	10.75	.0001	15.54	0.	SI
>3915.	0.	3.	2.	12526.	-1	3.7	32.17	10.75	.0001	22.81	0.	SI
3945.	30.	3.	2.	-35973.	-2	10.3	32.17	10.75	.0003	15.54	0.	SI
4250.	335.	3.	1.	307942.	-3.8	177.9	16.08	10.75	.0051	33.71	.017	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	293279.	-3.6	169.4	16.08	10.75	.0048	33.71	.016	SI
50.	50.	3.	1.	103552.	-1.3	59.8	16.08	10.75	.0017	33.71	.006	SI
415.	415.	3.	2.	-41098.	-2	11.8	32.17	10.75	.0003	15.54	.001	SI
465.	465.	3.	2.	31008.	-3	9.	32.17	10.75	.0003	22.81	.001	SI
> 465.	0.	3.	2.	-10156.	-1	2.9	32.17	10.75	.0001	15.54	0.	SI
491.	26.	3.	2.	-38054.	-2	10.9	32.17	10.75	.0003	15.54	0.	SI
668.	202.	3.	1.	172372.	-2.1	99.6	16.08	10.75	.0028	33.71	.01	SI
870.	405.	3.	2.	8174.	-1	2.4	32.17	10.75	.0001	22.81	0.	SI
> 870.	0.	3.	2.	19954.	-2	5.8	32.17	10.75	.0002	22.81	0.	SI
895.	25.	3.	2.	-22655.	-1	6.5	32.17	10.75	.0002	15.54	0.	SI
1185.	315.	3.	1.	242331.	-3.	140.	16.08	10.75	.004	33.71	.013	SI
1305.	435.	3.	2.	618911.	-5.3	180.4	32.17	10.75	.0052	22.81	.012	SI
>1305.	0.	3.	2.	682232.	-5.8	198.9	32.17	10.75	.0057	22.81	.013	SI
1581.	276.	3.	1.	-453503.	-3.2	256.7	16.08	10.75	.0073	19.17	.014	SI
1740.	435.	3.	2.	498828.	-4.3	145.4	32.17	10.75	.0042	22.81	.009	SI
>1740.	0.	3.	2.	208843.	-1.8	60.9	32.17	10.75	.0017	22.81	.004	SI
1941.	201.	3.	1.	-1081343.	-7.7	612.2	16.08	10.75	.0175	19.17	.034	SI
2222.	482.	3.	2.	716457.	-6.1	208.9	32.17	10.75	.006	22.81	.014	SI
>2222.	0.	3.	2.	484058.	-4.1	141.1	32.17	10.75	.004	22.81	.009	SI
2342.	120.	3.	1.	297700.	-3.7	172.	16.08	10.75	.0049	33.71	.017	SI
2615.	393.	3.	2.	30775.	-3	9.	32.17	10.75	.0003	22.81	.001	SI
2640.	418.	3.	2.	74417.	-6	21.7	32.17	10.75	.0006	22.81	.001	SI
>2640.	0.	3.	2.	45029.	-4	13.1	32.17	10.75	.0004	22.81	.001	SI
2666.	26.	3.	2.	20753.	-2	6.1	32.17	10.75	.0002	22.81	0.	SI
2842.	202.	3.	1.	220416.	-2.7	127.3	16.08	10.75	.0036	33.71	.012	SI
3045.	405.	3.	2.	61739.	-5	18.	32.17	10.75	.0005	22.81	.001	SI
>3045.	0.	3.	2.	55638.	-5	16.2	32.17	10.75	.0005	22.81	.001	SI
3075.	30.	3.	2.	6029.	-1	1.8	32.17	10.75	.0001	22.81	0.	SI
3360.	315.	3.	1.	160798.	-2.	92.9	16.08	10.75	.0027	33.71	.009	SI
3480.	435.	3.	2.	71366.	-6	20.8	32.17	10.75	.0006	22.81	.001	SI
>3480.	0.	3.	2.	72961.	-6	21.3	32.17	10.75	.0006	22.81	.001	SI
3581.	101.	3.	3.	158872.	-1.6	47.2	32.17	10.75	.0013	22.81	.003	SI
3600.	120.	3.	1.	148394.	-1.8	85.7	16.08	10.75	.0024	33.71	.008	SI
3889.	409.	3.	2.	-56861.	-3	16.3	32.17	10.75	.0005	15.54	.001	SI
3915.	435.	3.	2.	-15855.	-1	4.5	32.17	10.75	.0001	15.54	0.	SI
>3915.	0.	3.	2.	6967.	-1	2.	32.17	10.75	.0001	22.81	0.	SI
3945.	30.	3.	2.	-35226.	-2	10.1	32.17	10.75	.0003	15.54	0.	SI
4250.	335.	3.	1.	307974.	-3.8	177.9	16.08	10.75	.0051	33.71	.017	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16
3	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 6 - Travata Tf006 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σ (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acl<sub>s</sub>=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A170	3	3	3	0	427.	397.	3.558	1.3	5.	129.755
2	A167	3	3	3	0	473.	416.	3.942	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	16
7.	SLU con SISMAY PRINC16	16
10.	SLU FON con SISMAY P16	16
11.	SLU FON con SISMAY P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-128553.	-.001	.003	-6877818.	-.039	.186	2.	.175	53.5	SI
0.	0.	3. 1.	969999.	-.009	.027	6739557.	-.067	.186	2.	.266	6.948	SI
157.	157.	3. 1.	20437.	0.	.001	6739557.	-.067	.186	2.	.266	329.8	SI
195.	195.	3. 1.	-886862.	-.005	.024	-6877818.	-.039	.186	2.	.175	7.755	SI
341.	341.	3. 2.	-690208.	-.003	.019	-6922260.	-.036	.186	2.	.161	10.03	SI
341.	341.	3. 2.	821593.	-.006	.012	13017013.	-.111	.186	2.	.374	15.84	SI
375.	375.	3. 3.	1425466.	-.009	.02	13384511.	-.092	.186	2.	.331	9.39	SI
427.	427.	3. 3.	-139859.	-.001	.002	-13571814.	-.056	.186	2.	.23	97.04	SI
427.	427.	3. 3.	1425466.	-.009	.02	13384511.	-.092	.186	2.	.331	9.39	SI
> 427.	0.	3. 3.	-184928.	-.001	.003	-13571814.	-.056	.186	2.	.23	73.39	SI
427.	0.	3. 3.	1414797.	-.009	.02	13384511.	-.092	.186	2.	.331	9.46	SI
528.	101.	3. 2.	-1083055.	-.005	.029	-6922260.	-.036	.186	2.	.161	6.391	SI
528.	101.	3. 2.	456538.	-.003	.006	13017013.	-.111	.186	2.	.374	28.51	SI
547.	120.	3. 2.	173335.	-.001	.002	13017013.	-.111	.186	2.	.374	75.1	SI
663.	236.	3. 1.	-1559697.	-.009	.042	-6877818.	-.039	.186	2.	.175	4.41	SI
900.	473.	3. 1.	-319572.	-.002	.009	-6877818.	-.039	.186	2.	.175	21.52	SI
900.	473.	3. 1.	738552.	-.007	.02	6739557.	-.067	.186	2.	.266	9.125	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
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>	0.	0.	3.	-18635.!	12430.	84441.!	51204.!	1.01 20.	2.5	SI
	52.	52.	3.	-13825.!	15191.!	84441.!	51204.!	1.01 20.	2.5	SI
	427.	427.	3.	20188.!	12430.	84441.!	51204.!	1.01 20.	2.5	SI
>	427.	0.	3.	-23062.!	12430.	84441.!	51204.!	1.01 20.	2.5	SI
	528.	101.	3.	-13984.!	15191.!	84441.!	51204.!	1.01 20.	2.5	SI
	900.	473.	3.	21202.!	12430.	84441.!	51204.!	1.01 20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
>	0.	0.	3. 1.	670758.	-8.3!	387.5!	16.08 10.75	.0111	33.71	.037!	SI
	30.	30.	3. 1.	331085.	-4.1!	191.3!	16.08 10.75	.0055	33.71	.018!	SI
	52.	52.	3. 1.	81255.	-1.!	46.9!	16.08 10.75	.0013	33.71	.005!	SI
	195.	195.	3. 1.	-667105.!	-4.8!	377.7!	16.08 10.75	.0108	19.17	.021!	SI
	427.	427.	3. 3.	990539.!	-8.4!	288.8!	32.17 10.75	.0083	22.81	.019!	SI
>	427.	0.	3. 3.	982063.!	-8.4!	286.3!	32.17 10.75	.0082	22.81	.019!	SI
	663.	236.	3. 1.	-1138106.!	-8.1!	644.3!	16.08 10.75	.0184	19.17	.035!	SI
	900.	473.	3. 1.	521106.	-6.4!	301.	16.08 10.75	.0086	33.71	.029!	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
>	0.	0.	3. 1.	672471.	-8.3!	388.5!	16.08 10.75	.0111	33.71	.037!	SI
	30.	30.	3. 1.	354554.	-4.4!	204.8!	16.08 10.75	.0059	33.71	.02!	SI
	52.	52.	3. 1.	120725.	-1.5!	69.7!	16.08 10.75	.002!	33.71	.007!	SI
	195.	195.	3. 1.	-576609.!	-4.1!	326.4!	16.08 10.75	.0093	19.17	.018!	SI
	427.	427.	3. 3.	775172.!	-6.6!	226.	32.17 10.75	.0065	22.81	.015!	SI
>	427.	0.	3. 3.	771822.!	-6.6!	225.	32.17 10.75	.0064	22.81	.015!	SI
	663.	236.	3. 1.	-1018250.!	-7.3!	576.5!	16.08 10.75	.0165	19.17	.032!	SI
	900.	473.	3. 1.	499289.	-6.2!	288.4!	16.08 10.75	.0082	33.71	.028!	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
>	0.	0.	3. 1.	672590.	-8.3!	388.5!	16.08 10.75	.0111	33.71	.037!	SI
	30.	30.	3. 1.	362727.	-4.5!	209.5!	16.08 10.75	.006!	33.71	.02!	SI
	52.	52.	3. 1.	134823.	-1.7!	77.9!	16.08 10.75	.0022	33.71	.008!	SI
	195.	195.	3. 1.	-546358.!	-3.9!	309.3!	16.08 10.75	.0088	19.17	.017!	SI
	427.	427.	3. 3.	706523.!	-6.!	206.	32.17 10.75	.0059	22.81	.013!	SI
>	427.	0.	3. 3.	704949.!	-6.!	205.5!	32.17 10.75	.0059	22.81	.013!	SI
	663.	236.	3. 1.	-976686.!	-7.!	552.9!	16.08 10.75	.0158	19.17	.03!	SI
	900.	473.	3. 1.	492599.	-6.1!	284.6!	16.08 10.75	.0081	33.71	.027!	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 7 - Travata Tf007 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A181	3	3	3	0	427.	377.	3.558	1.3	5.	129.755
2	A176	3	3	3	0	473.	376.	3.942	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	
10.	SLU FON con SISMAX P16	
11.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-33803.	0.	.001	-6877818.	-.039	.186	2.	.175	203.5	SI
0.	0.	3. 1.	125179.	-.001	.003	6739557.	-.067	.186	2.	.266	53.84	SI
25.	25.	3. 1.	-30013.	0.	.001	-6877818.	-.039	.186	2.	.175	229.2	SI
311.	311.	3. 1.	146744.	-.001	.004	6739557.	-.067	.186	2.	.266	45.93	SI
343.	343.	3. 2.	-144194.	-.001	.004	-6922260.	-.036	.186	2.	.161	48.01	SI
343.	343.	3. 2.	121154.	-.001	.002	13017013.	-.111	.186	2.	.374	107.4	SI
375.	375.	3. 3.	134912.	-.001	.002	13384511.	-.092	.186	2.	.331	99.21	SI
427.	427.	3. 3.	-145553.	-.001	.002	-13571814.	-.056	.186	2.	.23	93.24	SI
427.	427.	3. 3.	97022.	-.001	.001	13384511.	-.092	.186	2.	.331	138.	SI
> 427.	0.	3. 3.	-168999.	-.001	.002	-13571814.	-.056	.186	2.	.23	80.31	SI
427.	0.	3. 3.	82503.	-.001	.001	13384511.	-.092	.186	2.	.331	162.2	SI
477.	50.	3. 3.	-169942.	-.001	.002	-13571814.	-.056	.186	2.	.23	79.86	SI
555.	128.	3. 1.	-139497.	-.001	.004	-6877818.	-.039	.186	2.	.175	49.3	SI
555.	128.	3. 1.	112462.	-.001	.003	6739557.	-.067	.186	2.	.266	59.93	SI
801.	374.	3. 1.	37438.	0.	.001	6739557.	-.067	.186	2.	.266	180.	SI
900.	473.	3. 1.	-66998.	0.	.002	-6877818.	-.039	.186	2.	.175	102.7	SI
900.	473.	3. 1.	92215.	-.001	.003	6739557.	-.067	.186	2.	.266	73.09	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-4318.	12430.	84441.	51204.	1.01	20.	2.5	SI
77.	77.	3.	1535.	15191.	84441.	51204.	1.01	20.	2.5	SI
311.	311.	3.	3849.	15191.	84441.	51204.	1.01	20.	2.5	SI
427.	427.	3.	3242.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 427.	0.	3.	-3803.	12430.	84441.	51204.	1.01	20.	2.5	SI
529.	102.	3.	4425.	15191.	84441.	51204.	1.01	20.	2.5	SI
555.	128.	3.	-4533.	15191.	84441.	51204.	1.01	20.	2.5	SI
900.	473.	3.	5304.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	81660.	-1.	47.2	16.08	10.75	.0013	33.71	.005	SI
50.	50.	3. 1.	-6273.	0.	3.6	16.08	10.75	.0001	19.17	0.	SI
375.	375.	3. 3.	-45548.	-.2	13.1	32.17	10.75	.0004	15.54	.001	SI
427.	427.	3. 3.	-1459.	0.	.4	32.17	10.75	0.	15.54	0.	SI
427.	427.	3. 3.	18335.	-.2	5.3	32.17	10.75	.0002	22.81	0.	SI
> 427.	0.	3. 3.	-16550.	-.1	4.7	32.17	10.75	.0001	15.54	0.	SI
427.	0.	3. 3.	4371.	0.	1.3	32.17	10.75	0.	22.81	0.	SI
477.	50.	3. 3.	-80564.	-.4	23.1	32.17	10.75	.0007	15.54	.001	SI
720.	293.	3. 1.	-73820.	-.5	41.8	16.08	10.75	.0012	19.17	.002	SI
900.	473.	3. 1.	60248.	-.7	34.8	16.08	10.75	.001	33.71	.003	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	82293.	-1.	47.5	16.08	10.75	.0014	33.71	.005	SI
50.	50.	3. 1.	6162.	-.1	3.6	16.08	10.75	.0001	33.71	0.	SI
375.	375.	3. 3.	-37191.	-.2	10.7	32.17	10.75	.0003	15.54	0.	SI
427.	427.	3. 3.	-1472.	0.	.4	32.17	10.75	0.	15.54	0.	SI
427.	427.	3. 3.	2487.	0.	.7	32.17	10.75	0.	22.81	0.	SI
> 427.	0.	3. 3.	-15371.	-.1	4.4	32.17	10.75	.0001	15.54	0.	SI
477.	50.	3. 3.	-69715.	-.4	20.	32.17	10.75	.0006	15.54	.001	SI
900.	473.	3. 1.	60847.	-.8	35.2	16.08	10.75	.001	33.71	.003	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	82688.	-1.	47.8	16.08	10.75	.0014	33.71	.005	SI
50.	50.	3. 1.	8126.	-.1	4.7	16.08	10.75	.0001	33.71	0.	SI

401.	401.	3.	3.	-35081.!	-.2	10.1	32.17	10.75	.0003	15.54	0.	SI
427.	427.	3.	3.	-1516.	0.	.4	32.17	10.75	0.	15.54	0.	SI
> 427.	0.	3.	3.	-14996.	-.1	4.3	32.17	10.75	.0001	15.54	0.	SI
477.	50.	3.	3.	-66246.!	-.3	19.	32.17	10.75	.0005	15.54	.001	SI
900.	473.	3.	1.	61255.!	-.8	35.4	16.08	10.75	.001	33.71	.003	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 8 - Travata Tf008 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σ (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A85	3	3	3	0	400.	335.	3.333	1.3	5.	129.755
2	A120	3	3	3	0	595.	530.	4.958	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	
7.	SLU con SISMAY PRINC16	
10.	SLU FON con SISMAY P16	
11.	SLU FON con SISMAY P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-1953.	0.	0.	-6877818.	-.039	.186	2.	.175	3522.	SI
0.	0.	3.	279542.	-.003	.008	6739557.	-.067	.186	2.	.266	24.11	SI
50.	50.	3.	-579.	0.	0.	-6877818.	-.039	.186	2.	.175	11886	SI
258.	258.	3.	304835.	-.003	.008	6739557.	-.067	.186	2.	.266	22.11	SI
295.	295.	3.	-199827.	-.001	.005	-6922260.	-.036	.186	2.	.161	34.64	SI
295.	295.	3.	336631.	-.003	.005	13017013.	-.111	.186	2.	.374	38.67	SI
333.	333.	3.	300430.	-.002	.004	13384511.	-.092	.186	2.	.331	44.55	SI
366.	366.	3.	-211946.	-.001	.003	-13571814.	-.056	.186	2.	.23	64.03	SI
400.	400.	3.	-200992.	-.001	.003	-13571814.	-.056	.186	2.	.23	67.52	SI
400.	400.	3.	262574.	-.002	.004	13384511.	-.092	.186	2.	.331	50.97	SI
> 400.	0.	3.	-226385.	-.001	.003	-13571814.	-.056	.186	2.	.23	59.95	SI
400.	0.	3.	269920.	-.002	.004	13384511.	-.092	.186	2.	.331	49.61	SI
518.	118.	3.	-249781.	-.001	.007	-6922260.	-.036	.186	2.	.161	27.71	SI
518.	118.	3.	188893.	-.001	.003	13017013.	-.111	.186	2.	.374	68.91	SI
737.	337.	3.	-369912.	-.002	.01	-6877818.	-.039	.186	2.	.175	18.59	SI
848.	448.	3.	14587.	0.	0.	6739557.	-.067	.186	2.	.266	462.	SI
995.	595.	3.	-79045.	0.	.002	-6877818.	-.039	.186	2.	.175	87.01	SI
995.	595.	3.	202474.	-.002	.006	6739557.	-.067	.186	2.	.266	33.29	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-6696.!	12430.!	84441.!	51204.!	1.01	20.	2.5	SI
50.	50.	3.	-1538.!	15191.!	84441.!	51204.!	1.01	20.	2.5	SI
295.	295.	3.	6191.!	15191.!	84441.!	51204.!	1.01	20.	2.5	SI
400.	400.	3.	4374.!	12430.!	84441.!	51204.!	1.01	20.	2.5	SI
> 400.	0.	3.	-5782.!	12430.!	84441.!	51204.!	1.01	20.	2.5	SI
487.	87.	3.	4454.!	15191.!	84441.!	51204.!	1.01	20.	2.5	SI
518.	118.	3.	-6105.!	15191.!	84441.!	51204.!	1.01	20.	2.5	SI
995.	595.	3.	8254.!	12430.!	84441.!	51204.!	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	187939.!	-2.3!	108.6!	16.08	10.75	.0031	33.71	.01	SI
50.	50.	3.	57024.!	-.7!	32.9!	16.08	10.75	.0009	33.71	.003	SI
154.	154.	3.	26545.!	-.3!	15.3!	16.08	10.75	.0004	33.71	.001	SI
400.	400.	3.	87567.!	-.7!	25.5!	32.17	10.75	.0007	22.81	.002	SI
> 400.	0.	3.	94090.!	-.8!	27.4!	32.17	10.75	.0008	22.81	.002	SI
737.	337.	3.	-271057.!	-1.9!	153.5!	16.08	10.75	.0044	19.17	.008	SI
995.	595.	3.	133055.!	-1.6!	76.9!	16.08	10.75	.0022	33.71	.007	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	184332.!	-2.3!	106.5!	16.08	10.75	.003	33.71	.01	SI
50.	50.	3.	61324.!	-.8!	35.4!	16.08	10.75	.001	33.71	.003	SI
366.	366.	3.	11502.!	-.1!	3.4!	32.17	10.75	.0001	22.81	0.	SI
400.	400.	3.	58647.!	-.5!	17.1!	32.17	10.75	.0005	22.81	.001	SI
> 400.	0.	3.	63671.!	-.5!	18.6!	32.17	10.75	.0005	22.81	.001	SI
737.	337.	3.	-230104.!	-1.6!	130.3!	16.08	10.75	.0037	19.17	.007	SI
995.	595.	3.	131634.!	-1.6!	76.	16.08	10.75	.0022	33.71	.007	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	182801.!	-2.3!	105.6!	16.08	10.75	.003	33.71	.01	SI
50.	50.	3.	62797.!	-.8!	36.3!	16.08	10.75	.001	33.71	.003	SI
366.	366.	3.	4965.!	0.	1.4!	32.17	10.75	0.	22.81	0.	SI
400.	400.	3.	49136.!	-.4!	14.3!	32.17	10.75	.0004	22.81	.001	SI
> 400.	0.	3.	53141.!	-.5!	15.5!	32.17	10.75	.0004	22.81	.001	SI
737.	337.	3.	-215652.!	-1.5!	122.1!	16.08	10.75	.0035	19.17	.007	SI
995.	595.	3.	131518.!	-1.6!	76.	16.08	10.75	.0022	33.71	.007	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 9 - Travata Tf009 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
 ACCIAIO: σf (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

DESCRIZIONE CAMPATE



Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A70	3	3	3	0	400.	335.	3.333	1.3	5.	129.755
2	A107	3	3	3	0	595.	530.	4.958	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAL PRINC16	
7.	SLU con SISMAY PRINC16	
10.	SLU FON con SISMAL P16	
11.	SLU FON con SISMAY P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-212539.	-.001	.006	-6877818.	-.039	.186	2.	.175	32.36	SI
0.	0.	3.	1.	1001795.	-.01	.028	6739557.	-.067	.186	2.	.266	6.727	SI
200.	200.	3.	1.	-772734.	-.004	.021	-6877818.	-.039	.186	2.	.175	8.901	SI
295.	295.	3.	2.	-656357.	-.003	.018	-6922260.	-.036	.186	2.	.161	10.55	SI
295.	295.	3.	2.	1288923.	-.01	.018	13017013.	-.111	.186	2.	.374	10.1	SI
333.	333.	3.	3.	-489345.	-.002	.007	-13571814.	-.056	.186	2.	.23	27.74	SI
333.	333.	3.	3.	2013311.	-.013	.028	13384511.	-.092	.186	2.	.331	6.648	SI
348.	348.	3.	3.	2311040.	-.015	.032	13384511.	-.092	.186	2.	.331	5.792	SI
385.	385.	3.	3.	-115338.	0.	.002	-13571814.	-.056	.186	2.	.23	117.7	SI
400.	400.	3.	3.	2311040.	-.015	.032	13384511.	-.092	.186	2.	.331	5.792	SI
> 400.	0.	3.	3.	-233219.	-.001	.003	-13571814.	-.056	.186	2.	.23	58.19	SI
400.	0.	3.	3.	2553463.	-.017	.035	13384511.	-.092	.186	2.	.331	5.242	SI
518.	118.	3.	2.	-1458199.	-.007	.039	-6922260.	-.036	.186	2.	.161	4.747	SI
518.	118.	3.	2.	865484.	-.007	.012	13017013.	-.111	.186	2.	.374	15.04	SI
698.	298.	3.	1.	-2603184.	-.015	.07	-6877818.	-.039	.186	2.	.175	2.642	SI
848.	448.	3.	1.	35228.	0.	.001	6739557.	-.067	.186	2.	.266	191.3	SI
995.	595.	3.	1.	-302829.	-.002	.008	-6877818.	-.039	.186	2.	.175	22.71	SI
995.	595.	3.	1.	1637965.	-.016	.045	6739557.	-.067	.186	2.	.266	4.115	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	1.	-14608.	12430.	84441.	51204.	1.01	20.	2.5	SI
50.	50.	3.	1.	-10241.	15191.	84441.	51204.	1.01	20.	2.5	SI
400.	400.	3.	1.	22260.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 400.	0.	3.	1.	-31941.	12430.	84441.	51204.	1.01	20.	2.5	SI
487.	87.	3.	1.	-23476.	15191.	84441.	51204.	1.01	20.	2.5	SI
995.	595.	3.	1.	31465.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	600235.	-7.4	346.7	16.08	10.75	.0099	33.71	.033	SI
50.	50.	3.	1.	166421.	-2.1	96.1	16.08	10.75	.0027	33.71	.009	SI
154.	154.	3.	1.	-298006.	-2.1	168.7	16.08	10.75	.0048	19.17	.009	SI
400.	400.	3.	3.	1619475.	-13.8	472.1	32.17	10.75	.0135	22.81	.031	SI
> 400.	0.	3.	3.	1790148.	-15.3	521.9	32.17	10.75	.0149	22.81	.034	SI
698.	298.	3.	1.	-1890770.	-13.5	1070.4	16.08	10.75	.0364	19.17	.07	SI
995.	595.	3.	1.	1138497.	-14.1	657.7	16.08	10.75	.0188	33.71	.063	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	622063.	-7.7	359.4	16.08	10.75	.0103	33.71	.035	SI
50.	50.	3.	1.	204307.	-2.5	118.	16.08	10.75	.0034	33.71	.011	SI
52.	52.	3.	1.	192775.	-2.4	111.4	16.08	10.75	.0032	33.71	.011	SI
154.	154.	3.	1.	-226204.	-1.6	128.1	16.08	10.75	.0037	19.17	.007	SI
400.	400.	3.	3.	1275196.	-10.9	371.8	32.17	10.75	.0106	22.81	.024	SI
> 400.	0.	3.	3.	1411856.	-12.	411.6	32.17	10.75	.0118	22.81	.027	SI
698.	298.	3.	1.	-1683201.	-12.	952.9	16.08	10.75	.0308	19.17	.059	SI
995.	595.	3.	1.	1078988.	-13.3	623.3	16.08	10.75	.0178	33.71	.06	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	631813.	-7.8	365.	16.08	10.75	.0104	33.71	.035	SI

50.	50.	3.	1.	218145.	-2.7	126.	16.08	10.75	.0036	33.71	.012	SI
52.	52.	3.	1.	206569.	-2.6	119.3	16.08	10.75	.0034	33.71	.011	SI
200.	200.	3.	1.	-215559.	-1.5	122.	16.08	10.75	.0035	19.17	.007	SI
400.	400.	3.	3.	1151027.	-9.8	335.6	32.17	10.75	.0096	22.81	.022	SI
> 400.	0.	3.	3.	1275517.	-10.9	371.9	32.17	10.75	.0106	22.81	.024	SI
698.	298.	3.	1.	-1612510.	-11.5	912.9	16.08	10.75	.0289	19.17	.055	SI
995.	595.	3.	1.	1063422.	-13.1	614.3	16.08	10.75	.0176	33.71	.059	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 10 - Travata Tf010 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
 ACCIAIO: σf (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acl<sub>s</sub>=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A15	3	3	3	0	455.	375.	3.792	1.3	5.	129.755
2	A26	3	3	3	0	475.	460.	3.958	1.5	5.	149.718
3	A71	3	3	3	0	400.	350.	3.333	1.5	3.819	114.362
4	A108	3	3	3	0	595.	530.	4.958	1.3	4.214	109.365

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16
10.	SLU FON con SISMAX P16	16
11.	SLU FON con SISMAX P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-61563.	0.	.002	-6877818.	-.039	.186	2.	.175	111.7	SI
0.	0.	3.	273530.	-.003	.008	6739557.	-.067	.186	2.	.266	24.64	SI
353.	353.	3.	87771.	-.001	.001	13384511.	-.092	.186	2.	.331	152.5	SI
378.	378.	3.	-147391.	-.001	.002	-13571814.	-.056	.186	2.	.23	92.08	SI
430.	430.	3.	58908.	0.	.001	13384511.	-.092	.186	2.	.331	227.2	SI
455.	455.	3.	-141581.	-.001	.002	-13571814.	-.056	.186	2.	.23	95.86	SI
455.	455.	3.	58908.	0.	.001	13384511.	-.092	.186	2.	.331	227.2	SI
> 455.	0.	3.	-216323.	-.001	.003	-13571814.	-.056	.186	2.	.23	62.74	SI
455.	0.	3.	45985.	0.	.001	13384511.	-.092	.186	2.	.331	291.1	SI
539.	84.	3.	-298511.	-.002	.008	-6922260.	-.036	.186	2.	.161	23.19	SI
539.	84.	3.	265590.	-.002	.004	13017013.	-.111	.186	2.	.374	49.01	SI
825.	370.	3.	-1393320.	-.007	.037	-6922260.	-.036	.186	2.	.161	4.968	SI
878.	423.	3.	1551553.	-.01	.022	13384511.	-.092	.186	2.	.331	8.627	SI
930.	475.	3.	-1962050.	-.008	.027	-13571814.	-.056	.186	2.	.23	6.917	SI

930.	475.	3.	2.	1551553.	-.01	.022	13384511.	-.092	.186	2.	.331	8.627	SI
> 930.	0.	3.	2.	-1918064.	-.008	.026	-13571814	-.056	.186	2.	.23	7.076	SI
930.	0.	3.	2.	3215392.	-.021	.045	13384511.	-.092	.186	2.	.331	4.163	SI
1048.	118.	3.	1.	1946198.	-.019	.054	6739557.	-.067	.186	2.	.266	3.463	SI
1130.	200.	3.	1.	704021.	-.007	.019	6739557.	-.067	.186	2.	.266	9.573	SI
1225.	295.	3.	3.	-1826407.	-.009	.049	-6922260.	-.036	.186	2.	.161	3.79	SI
1225.	295.	3.	3.	2301089.	-.018	.033	13017013.	-.111	.186	2.	.374	5.657	SI
1278.	348.	3.	2.	3504472.	-.023	.049	13384511.	-.092	.186	2.	.331	3.819	SI
1330.	400.	3.	2.	-2317605.	-.009	.032	-13571814	-.056	.186	2.	.23	5.856	SI
1330.	400.	3.	2.	3504472.	-.023	.049	13384511.	-.092	.186	2.	.331	3.819	SI
>1330.	0.	3.	2.	-3000680.	-.012	.041	-13571814	-.056	.186	2.	.23	4.523	SI
1330.	0.	3.	2.	3175985.	-.021	.044	13384511.	-.092	.186	2.	.331	4.214	SI
1448.	118.	3.	3.	-2904585.	-.015	.078	-6922260.	-.036	.186	2.	.161	2.383	SI
1448.	118.	3.	3.	1688444.	-.013	.024	13017013.	-.111	.186	2.	.374	7.709	SI
1873.	543.	3.	1.	2261097.	-.022	.062	6739557.	-.067	.186	2.	.266	2.981	SI
1925.	595.	3.	1.	-114095.	-.001	.003	-6877818.	-.039	.186	2.	.175	60.28	SI
1925.	595.	3.	1.	2261097.	-.022	.062	6739557.	-.067	.186	2.	.266	2.981	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	2.	12430.	84441.	51204.	1.01	20.	2.5	SI	
52.	52.	3.	1.	-1499.	15191.	84441.	51204.	1.01	20.	2.5	SI
327.	327.	3.	1.	2625.	15191.	84441.	51204.	1.01	20.	2.5	SI
455.	455.	3.	1.	2616.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 455.	0.	3.	2.	-2820.	12430.	84441.	51204.	1.01	20.	2.5	SI
507.	52.	3.	1.	-1434.	15191.	84441.	51204.	1.01	20.	2.5	SI
825.	370.	3.	1.	-14404.	15191.	84441.	51204.	1.01	20.	2.5	SI
930.	475.	3.	1.	-9556.	12430.	84441.	51204.	1.01	20.	2.5	SI
930.	475.	3.	1.	8418.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 930.	0.	3.	2.	-20834.	12430.	84441.	51204.	1.01	20.	2.5	SI
930.	0.	3.	2.	4899.	12430.	84441.	51204.	1.01	20.	2.5	SI
1017.	87.	3.	1.	-17220.	15191.	84441.	51204.	1.01	20.	2.5	SI
1330.	400.	3.	1.	-8867.	12430.	84441.	51204.	1.01	20.	2.5	SI
1330.	400.	3.	1.	24641.	12430.	84441.	51204.	1.01	20.	2.5	SI
>1330.	0.	3.	2.	-25022.	12430.	84441.	51204.	1.01	20.	2.5	SI
1330.	0.	3.	2.	872.	12430.	84441.	51204.	1.01	20.	2.5	SI
1417.	87.	3.	1.	-19169.	15191.	84441.	51204.	1.01	20.	2.5	SI
1925.	595.	3.	1.	32699.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	152376.	-1.9	88.	16.08	10.75	.0025	33.71	.008	SI
30.	30.	3.	1.	85671.	-1.1	49.5	16.08	10.75	.0014	33.71	.005	SI
52.	52.	3.	1.	57543.	-0.7	33.2	16.08	10.75	.0009	33.71	.003	SI
405.	405.	3.	2.	-57085.	-0.3	16.4	32.17	10.75	.0005	15.54	.001	SI
455.	455.	3.	2.	-21963.	-0.1	6.3	32.17	10.75	.0002	15.54	0.	SI
> 455.	0.	3.	2.	-36658.	-0.2	10.5	32.17	10.75	.0003	15.54	0.	SI
788.	333.	3.	1.	76278.	-0.9	44.1	16.08	10.75	.0013	33.71	.004	SI
930.	475.	3.	2.	-314984.	-1.6	90.3	32.17	10.75	.0026	15.54	.004	SI
> 930.	0.	3.	2.	843739.	-7.2	246.	32.17	10.75	.007	22.81	.016	SI
1130.	200.	3.	1.	-246158.	-1.8	139.4	16.08	10.75	.004	19.17	.008	SI
1330.	400.	3.	2.	943165.	-8.	275.	32.17	10.75	.0079	22.81	.018	SI
>1330.	0.	3.	2.	408957.	-3.5	119.2	32.17	10.75	.0034	22.81	.008	SI
1628.	298.	3.	1.	-1923435.	-13.7	1088.9	16.08	10.75	.0373	19.17	.072	SI
1925.	595.	3.	1.	1572223.	-19.4	908.2	16.08	10.75	.0259	33.71	.087	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	139451.	-1.7	80.6	16.08	10.75	.0023	33.71	.008	SI
30.	30.	3.	1.	83055.	-1.	48.	16.08	10.75	.0014	33.71	.005	SI
52.	52.	3.	1.	59365.	-0.7	34.3	16.08	10.75	.001	33.71	.003	SI
430.	430.	3.	2.	-64120.	-0.3	18.4	32.17	10.75	.0005	15.54	.001	SI
455.	455.	3.	2.	-43397.	-0.2	12.4	32.17	10.75	.0004	15.54	.001	SI
> 455.	0.	3.	2.	-59497.	-0.3	17.1	32.17	10.75	.0005	15.54	.001	SI
788.	333.	3.	1.	70931.	-0.9	41.	16.08	10.75	.0012	33.71	.004	SI
930.	475.	3.	2.	-225859.	-1.1	64.8	32.17	10.75	.0019	15.54	.003	SI
> 930.	0.	3.	2.	694844.	-5.9	202.6	32.17	10.75	.0058	22.81	.013	SI
1130.	200.	3.	1.	-181694.	-1.3	102.9	16.08	10.75	.0029	19.17	.006	SI
1330.	400.	3.	2.	679255.	-5.8	198.	32.17	10.75	.0057	22.81	.013	SI
>1330.	0.	3.	2.	168698.	-1.4	49.2	32.17	10.75	.0014	22.81	.003	SI
1628.	298.	3.	1.	-1679114.	-12.	950.6	16.08	10.75	.0307	19.17	.059	SI
1925.	595.	3.	1.	1421923.	-17.6	821.4	16.08	10.75	.0235	33.71	.079	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	136464.	-1.7	78.8	16.08	10.75	.0023	33.71	.008	SI
30.	30.	3.	1.	81630.	-1.	47.2	16.08	10.75	.0013	33.71	.005	SI
52.	52.	3.	1.	58822.	-0.7	34.	16.08	10.75	.001	33.71	.003	SI
430.	430.	3.	2.	-61175.	-0.3	17.5	32.17	10.75	.0005	15.54	.001	SI

455.	455.	3.	2.	-41336.	-2.	11.9	32.17	10.75	.0003	15.54	.001	SI
> 455.	0.	3.	2.	-57212.	-3.	16.4	32.17	10.75	.0005	15.54	.001	SI
788.	333.	3.	1.	68525.	-8.	39.6	16.08	10.75	.0011	33.71	.004	SI
930.	475.	3.	2.	-205249.	-1.	58.9	32.17	10.75	.0017	15.54	.003	SI
> 930.	0.	3.	2.	648664.	-5.5	189.1	32.17	10.75	.0054	22.81	.012	SI
1130.	200.	3.	1.	-172731.	-1.2	97.8	16.08	10.75	.0028	19.17	.005	SI
1330.	400.	3.	2.	593433.	-5.1	173.	32.17	10.75	.0049	22.81	.011	SI
>1330.	0.	3.	2.	87652.	-7.	25.6	32.17	10.75	.0007	22.81	.002	SI
1628.	298.	3.	1.	-1599687.	-11.4	905.6	16.08	10.75	.0286	19.17	.055	SI
1925.	595.	3.	1.	1377926.	-17.	796.	16.08	10.75	.0227	33.71	.077	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16
3	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 11 - Travata Tf011 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinaLi= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A12	3	3	3	0	455.	395.	3.792	1.3	5.	129.755
2	A23	3	3	3	0	475.	460.	3.958	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16
10.	SLU FON con SISMAX P16	16
11.	SLU FON con SISMAX P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-107210.	-.001	.003	-6877818.	-.039	.186	2.	.175	64.15	SI
0.	0.	3.	1.	1398851.	-.013	.039	6739557.	-.067	.186	2.	.266	4.818	SI
243.	243.	3.	1.	-766124.	-.004	.021	-6877818.	-.039	.186	2.	.175	8.977	SI
340.	340.	3.	2.	-707326.	-.004	.019	-6922260.	-.036	.186	2.	.161	9.787	SI
340.	340.	3.	2.	919674.	-.007	.013	13017013.	-.111	.186	2.	.374	14.15	SI
373.	373.	3.	3.	1257469.	-.008	.017	13384511.	-.092	.186	2.	.331	10.64	SI
403.	403.	3.	3.	1624407.	-.011	.023	13384511.	-.092	.186	2.	.331	8.24	SI
455.	455.	3.	3.	-220981.	-.001	.003	-13571814.	-.056	.186	2.	.23	61.42	SI
455.	455.	3.	3.	1624407.	-.011	.023	13384511.	-.092	.186	2.	.331	8.24	SI
> 455.	0.	3.	3.	-381747.	-.001	.005	-13571814.	-.056	.186	2.	.23	35.55	SI
455.	0.	3.	3.	1842446.	-.012	.026	13384511.	-.092	.186	2.	.331	7.265	SI
539.	84.	3.	2.	-759522.	-.004	.02	-6922260.	-.036	.186	2.	.161	9.114	SI
539.	84.	3.	2.	1381694.	-.011	.02	13017013.	-.111	.186	2.	.374	9.421	SI

673.	218.	3.	1.	95707.	-.001	.003	6739557.	-.067	.186	2.	.266	70.42	SI
930.	475.	3.	1.	-1331418.	-.007	.036	-6877818.	-.039	.186	2.	.175	5.166	SI
930.	475.	3.	1.	892375.	-.008	.025	6739557.	-.067	.186	2.	.266	7.552	SI

#### VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	12371.	12430.	84441.	51204.	1.01	20.	2.5	SI
52.	52.	3.	1.	-9460.	15191.	84441.	51204.	1.01	20.	2.5	SI
455.	455.	3.	1.	14354.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 455.	0.	3.	1.	-18391.	12430.	84441.	51204.	1.01	20.	2.5	SI
539.	84.	3.	1.	-13499.	15191.	84441.	51204.	1.01	20.	2.5	SI
930.	475.	3.	1.	-2431.	12430.	84441.	51204.	1.01	20.	2.5	SI
930.	475.	3.	1.	13406.	12430.	84441.	51204.	1.01	20.	2.5	SI

#### VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	887423.	-11.	512.6	16.08	10.75	.0146	33.71	.049	SI
15.	15.	3.	1.	773874.	-9.6	447.1	16.08	10.75	.0128	33.71	.043	SI
212.	212.	3.	1.	-171189.	-1.2	96.9	16.08	10.75	.0028	19.17	.005	SI
455.	455.	3.	3.	1121244.	-9.6	326.9	32.17	10.75	.0093	22.81	.021	SI
> 455.	0.	3.	3.	1271552.	-10.8	370.7	32.17	10.75	.0106	22.81	.024	SI
788.	333.	3.	1.	-790357.	-5.6	447.4	16.08	10.75	.0128	19.17	.025	SI
930.	475.	3.	1.	-384893.	-2.7	217.9	16.08	10.75	.0062	19.17	.012	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	874649.	-10.8	505.3	16.08	10.75	.0144	33.71	.049	SI
15.	15.	3.	1.	769315.	-9.5	444.4	16.08	10.75	.0127	33.71	.043	SI
30.	30.	3.	1.	663981.	-8.2	383.6	16.08	10.75	.011	33.71	.037	SI
243.	243.	3.	1.	-91195.	-7	51.6	16.08	10.75	.0015	19.17	.003	SI
455.	455.	3.	3.	729762.	-6.2	212.8	32.17	10.75	.0061	22.81	.014	SI
> 455.	0.	3.	3.	858948.	-7.3	250.4	32.17	10.75	.0072	22.81	.016	SI
750.	295.	3.	1.	-704228.	-5.	398.7	16.08	10.75	.0114	19.17	.022	SI
930.	475.	3.	1.	-249106.	-1.8	141.	16.08	10.75	.004	19.17	.008	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	864911.	-10.7	499.6	16.08	10.75	.0143	33.71	.048	SI
15.	15.	3.	1.	760671.	-9.4	439.4	16.08	10.75	.0126	33.71	.042	SI
30.	30.	3.	1.	656430.	-8.1	379.2	16.08	10.75	.0108	33.71	.037	SI
243.	243.	3.	1.	-76530.	-5	43.3	16.08	10.75	.0012	19.17	.002	SI
455.	455.	3.	3.	677259.	-5.8	197.4	32.17	10.75	.0056	22.81	.013	SI
> 455.	0.	3.	3.	801093.	-6.8	233.5	32.17	10.75	.0067	22.81	.015	SI
750.	295.	3.	1.	-679203.	-4.8	384.5	16.08	10.75	.011	19.17	.021	SI
930.	475.	3.	1.	-219521.	-1.6	124.3	16.08	10.75	.0036	19.17	.007	SI

#### ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

#### VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 12 - Travata Tf012 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

#### MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

#### TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

#### SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Ac1s=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A168	3	3	3	0	430.	365.	3.586	1.3	5.	129.755
2	A183	3	3	3	0	350.	320.	2.917	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	16
7.	SLU con SISMAY PRINC16	16
10.	SLU FON con SISMAY P16	16
11.	SLU FON con SISMAY P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	1099839.	-.01	.03	6739557.	-.067	.186	2.	.266	6.128	SI
142.	142.	3.	-12893.	0.	0.	-6877818.	-.039	.186	2.	.175	533.4	SI
302.	302.	3.	6214.	0.	0.	6739557.	-.067	.186	2.	.266	1085.	SI
328.	328.	3.	18722.	0.	0.	13384511.	-.092	.186	2.	.331	714.9	SI
353.	353.	3.	-218355.	-.001	.003	-13571814.	-.056	.186	2.	.23	62.16	SI
430.	430.	3.	-210483.	-.001	.003	-13571814.	-.056	.186	2.	.23	64.48	SI
> 430.	0.	3.	-125965.	0.	.002	-13571814.	-.056	.186	2.	.23	107.7	SI
456.	26.	3.	-146639.	-.001	.002	-13571814.	-.056	.186	2.	.23	92.55	SI
456.	26.	3.	25564.	0.	0.	13384511.	-.092	.186	2.	.331	523.6	SI
526.	95.	3.	-129914.	-.001	.003	-6922260.	-.036	.186	2.	.161	53.28	SI
526.	95.	3.	52010.	0.	.001	13017013.	-.111	.186	2.	.374	250.3	SI
713.	283.	3.	-12517.	0.	0.	-6877818.	-.039	.186	2.	.175	549.5	SI
728.	298.	3.	188174.	-.002	.005	6739557.	-.067	.186	2.	.266	35.82	SI
780.	350.	3.	188174.	-.002	.005	6739557.	-.067	.186	2.	.266	35.82	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-12271.	12430.	84441.	51204.	1.01	20.	2.5	SI
52.	52.	3.	-6542.	15191.	84441.	51204.	1.01	20.	2.5	SI
105.	105.	3.	3544.	15191.	84441.	51204.	1.01	20.	2.5	SI
430.	430.	3.	3408.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 430.	0.	3.	-2320.	12430.	84441.	51204.	1.01	20.	2.5	SI
482.	52.	3.	2442.	15191.	84441.	51204.	1.01	20.	2.5	SI
526.	95.	3.	-2872.	15191.	84441.	51204.	1.01	20.	2.5	SI
780.	350.	3.	4233.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	786110.	-9.7	454.1	16.08	10.75	.013	33.71	.044	SI
52.	52.	3.	443739.	-5.5	256.3	16.08	10.75	.0073	33.71	.025	SI
405.	405.	3.	-158473.	-.8	45.4	32.17	10.75	.0013	15.54	.002	SI
430.	430.	3.	-120444.	-.6	34.5	32.17	10.75	.001	15.54	.002	SI
> 430.	0.	3.	-87528.	-.4	25.1	32.17	10.75	.0007	15.54	.001	SI
456.	26.	3.	-108182.	-.5	31.	32.17	10.75	.0009	15.54	.001	SI
780.	350.	3.	122812.	-1.5	70.9	16.08	10.75	.002	33.71	.007	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	633140.	-7.8	365.8	16.08	10.75	.0105	33.71	.035	SI
52.	52.	3.	350001.	-4.3	202.2	16.08	10.75	.0058	33.71	.019	SI
405.	405.	3.	-142999.	-.7	41.	32.17	10.75	.0012	15.54	.002	SI
430.	430.	3.	-108871.	-.6	31.2	32.17	10.75	.0009	15.54	.001	SI
> 430.	0.	3.	-79866.	-.4	22.9	32.17	10.75	.0007	15.54	.001	SI
456.	26.	3.	-95654.	-.5	27.4	32.17	10.75	.0008	15.54	.001	SI
780.	350.	3.	124163.	-1.5	71.7	16.08	10.75	.002	33.71	.007	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
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>	0.	0.	3.	1.	582488.!	-7.2!	336.5!	16.08	10.75	.0096	33.71	.032!	SI
	52.	52.	3.	1.	318824.!	-3.9!	184.2!	16.08	10.75	.0053	33.71	.018!	SI
	405.	405.	3.	2.	-137237.!	-.7!	39.4!	32.17	10.75	.0011	15.54	.002!	SI
	430.	430.	3.	2.	-104337.!	-.5!	29.9!	32.17	10.75	.0009	15.54	.001!	SI
>	430.	0.	3.	2.	-76802.!	-.4!	22.!	32.17	10.75	.0006	15.54	.001!	SI
	456.	26.	3.	2.	-90982.!	-.5!	26.1!	32.17	10.75	.0007	15.54	.001!	SI
	780.	350.	3.	1.	125382.!	-1.5!	72.4!	16.08	10.75	.0021	33.71	.007!	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16
3	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 13 - Travata Tf013 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acl<sub>s</sub>=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A72	3	3	3	0	400.	370.	3.333	1.3	3.221	83.583
2	A109	3	3	3	0	595.	545.	4.958	1.3	3.198	82.989

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16
10.	SLU FON con SISMAX P16	16
11.	SLU FON con SISMAX P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE		
>	0.	0.	3.	1.	-1366693.	-.008	.037	-6877818.	-.039	.186	2.	.175	5.032	SI
	0.	0.	3.	1.	2567148.	-.025	.071	6739557.	-.067	.186	2.	.266	2.625	SI
	142.	142.	3.	1.	-668974.	-.004	.018	-6877818.	-.039	.186	2.	.175	10.28	SI
	295.	295.	3.	1.	2982088.	-.029	.082	6739557.	-.067	.186	2.	.266	2.26	SI
	333.	333.	3.	2.	3818905.	-.025	.053	13384511.	-.092	.186	2.	.331	3.505	SI
	348.	348.	3.	2.	4155637.	-.027	.058	13384511.	-.092	.186	2.	.331	3.221	SI
	400.	400.	3.	2.	-2112017.	-.008	.029	-13571814.	-.056	.186	2.	.23	6.426	SI
	400.	400.	3.	2.	4155637.	-.027	.058	13384511.	-.092	.186	2.	.331	3.221	SI
>	400.	0.	3.	2.	-3291217.	-.013	.045	-13571814.	-.056	.186	2.	.23	4.124	SI
	400.	0.	3.	2.	4185383.	-.027	.058	13384511.	-.092	.186	2.	.331	3.198	SI
	518.	118.	3.	3.	-3161434.	-.016	.085	-6922260.	-.036	.186	2.	.161	2.19	SI
	518.	118.	3.	3.	2563692.	-.02	.036	13017013.	-.111	.186	2.	.374	5.077	SI
	658.	258.	3.	1.	92080.	-.001	.003	6739557.	-.067	.186	2.	.266	73.19	SI
	995.	595.	3.	1.	-312027.	-.002	.008	-6877818.	-.039	.186	2.	.175	22.04	SI
	995.	595.	3.	1.	1833442.	-.018	.051	6739557.	-.067	.186	2.	.266	3.676	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-20204.	12430.	84441.	51204.	1.01	20.	2.5
0.	0.	3.	7090.	12430.	84441.	51204.	1.01	20.	2.5
52.	52.	3.	-17174.	15191.	84441.	51204.	1.01	20.	2.5
400.	400.	3.	-5910.	12430.	84441.	51204.	1.01	20.	2.5
400.	400.	3.	24079.	12430.	84441.	51204.	1.01	20.	2.5
> 400.	0.	3.	-27083.	12430.	84441.	51204.	1.01	20.	2.5
400.	0.	3.	1376.	12430.	84441.	51204.	1.01	20.	2.5
487.	87.	3.	-21155.	15191.	84441.	51204.	1.01	20.	2.5
995.	595.	3.	29566.	12430.	84441.	51204.	1.01	20.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	1.	796630.	-9.8	460.2	16.08	10.75	.0131	33.71	.044
34.	34.	3.	1.	539945.	-6.7	311.9	16.08	10.75	.0089	33.71	.03
52.	52.	3.	1.	402716.	-5.	232.6	16.08	10.75	.0066	33.71	.022
200.	200.	3.	1.	-54359.	-.4	30.8	16.08	10.75	.0009	19.17	.002
400.	400.	3.	2.	1426710.	-12.2	415.9	32.17	10.75	.0119	22.81	.027
> 400.	0.	3.	2.	831726.	-7.1	242.5	32.17	10.75	.0069	22.81	.016
698.	298.	3.	1.	-1805586.	-12.9	1022.2	16.08	10.75	.0341	19.17	.065
995.	595.	3.	1.	1292419.	-16.	746.6	16.08	10.75	.0213	33.71	.072

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	1.	646802.	-8.	373.6	16.08	10.75	.0107	33.71	.036
34.	34.	3.	1.	443384.	-5.5	256.1	16.08	10.75	.0073	33.71	.025
52.	52.	3.	1.	334913.	-4.1	193.5	16.08	10.75	.0055	33.71	.019
180.	180.	3.	1.	29773.	-.4	17.2	16.08	10.75	.0005	33.71	.002
400.	400.	3.	2.	1121788.	-9.6	327.	32.17	10.75	.0093	22.81	.021
> 400.	0.	3.	2.	539323.	-4.6	157.2	32.17	10.75	.0045	22.81	.01
698.	298.	3.	1.	-1555540.	-11.1	880.6	16.08	10.75	.0274	19.17	.053
995.	595.	3.	1.	1078104.	-13.3	622.8	16.08	10.75	.0178	33.71	.06

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3.	1.	600227.	-7.4	346.7	16.08	10.75	.0099	33.71	.033
34.	34.	3.	1.	410354.	-5.1	237.1	16.08	10.75	.0068	33.71	.023
52.	52.	3.	1.	309185.	-3.8	178.6	16.08	10.75	.0051	33.71	.017
200.	200.	3.	1.	25676.	-.3	14.8	16.08	10.75	.0004	33.71	.001
400.	400.	3.	2.	1021810.	-8.7	297.9	32.17	10.75	.0085	22.81	.019
> 400.	0.	3.	2.	447083.	-3.8	130.3	32.17	10.75	.0037	22.81	.008
698.	298.	3.	1.	-1479503.	-10.6	837.6	16.08	10.75	.0253	19.17	.049
995.	595.	3.	1.	1009542.	-12.5	583.2	16.08	10.75	.0167	33.71	.056

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16
3	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 14 - Travata Tf014 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .



## DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A16	3	3	3	0	455.	355.	3.792	1.3	5.	129.755
2	A27	3	3	3	0	475.	460.	3.958	1.5	5.	149.718
3	A73	3	3	3	0	400.	370.	3.333	1.5	5.	149.718
4	A110	3	3	3	0	595.	530.	4.958	1.3	2.054	53.307

## CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	
10.	SLU FON con SISMAX P16	
11.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

## VERIFICHE ALLO STATO LIMITE ULTIMO

## FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	308533.	-.003	.009	6739557.	-.067	.186	2.	.266	21.84	SI
102.	102.	3.	-33441.	0.	.001	-6877818.	-.039	.186	2.	.175	205.7	SI
353.	353.	3.	94599.	-.001	.001	13384511.	-.092	.186	2.	.331	141.5	SI
378.	378.	3.	-176758.	-.001	.002	-13571814.	-.056	.186	2.	.23	76.78	SI
455.	455.	3.	-169085.	-.001	.002	-13571814.	-.056	.186	2.	.23	80.27	SI
455.	455.	3.	12032.	0.	0.	13384511.	-.092	.186	2.	.331	1112.	SI
> 455.	0.	3.	-195375.	-.001	.003	-13571814.	-.056	.186	2.	.23	69.47	SI
481.	26.	3.	-210401.	-.001	.003	-13571814.	-.056	.186	2.	.23	64.5	SI
507.	52.	3.	41815.	0.	.001	13384511.	-.092	.186	2.	.331	320.1	SI
539.	84.	3.	-206246.	-.001	.006	-6922260.	-.036	.186	2.	.161	33.56	SI
539.	84.	3.	71234.	-.001	.001	13017013.	-.111	.186	2.	.374	182.7	SI
788.	333.	3.	725093.	-.007	.02	6739557.	-.067	.186	2.	.266	9.295	SI
825.	370.	3.	-10551.	0.	0.	-6922260.	-.036	.186	2.	.161	656.1	SI
878.	423.	3.	1242911.	-.008	.017	13384511.	-.092	.186	2.	.331	10.77	SI
930.	475.	3.	-21470.	0.	0.	-13571814.	-.056	.186	2.	.23	632.1	SI
930.	475.	3.	1242911.	-.008	.017	13384511.	-.092	.186	2.	.331	10.77	SI
> 930.	0.	3.	1380890.	-.009	.019	13384511.	-.092	.186	2.	.331	9.693	SI
964.	34.	3.	-42035.	0.	.001	-13571814.	-.056	.186	2.	.23	322.9	SI
1188.	258.	3.	-308706.	-.002	.008	-6877818.	-.039	.186	2.	.175	22.28	SI
1225.	295.	3.	-295765.	-.001	.008	-6922260.	-.036	.186	2.	.161	23.41	SI
1225.	295.	3.	1247764.	-.01	.018	13017013.	-.111	.186	2.	.374	10.43	SI
1278.	348.	3.	2110566.	-.014	.029	13384511.	-.092	.186	2.	.331	6.342	SI
1330.	400.	3.	-117358.	0.	.002	-13571814.	-.056	.186	2.	.23	115.6	SI
1330.	400.	3.	2110566.	-.014	.029	13384511.	-.092	.186	2.	.331	6.342	SI
>1330.	0.	3.	-272828.	-.001	.004	-13571814.	-.056	.186	2.	.23	49.75	SI
1330.	0.	3.	2228619.	-.014	.031	13384511.	-.092	.186	2.	.331	6.006	SI
1448.	118.	3.	-1114893.	-.006	.03	-6922260.	-.036	.186	2.	.161	6.209	SI
1448.	118.	3.	972975.	-.007	.014	13017013.	-.111	.186	2.	.374	13.38	SI
1628.	298.	3.	-1648474.	-.009	.045	-6877818.	-.039	.186	2.	.175	4.172	SI
1873.	543.	3.	-25662.	0.	.001	-6877818.	-.039	.186	2.	.175	268.	SI
1873.	543.	3.	3280949.	-.032	.091	6739557.	-.067	.186	2.	.266	2.054	SI
1925.	595.	3.	3280949.	-.032	.091	6739557.	-.067	.186	2.	.266	2.054	SI

## VERIFICHE A TAGLIO

## TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctg	Ve	
> 0.	0.	3.	-4225.	12430.	84441.	51204.	1.01	20.	2.5	SI
50.	50.	3.	-1462.	15191.	84441.	51204.	1.01	20.	2.5	SI
327.	327.	3.	2725.	15191.	84441.	51204.	1.01	20.	2.5	SI
353.	353.	3.	-4643.	15191.	84441.	51204.	1.01	20.	2.5	SI
455.	455.	3.	2439.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 455.	0.	3.	-2634.	12430.	84441.	51204.	1.01	20.	2.5	SI
507.	52.	3.	1535.	15191.	84441.	51204.	1.01	20.	2.5	SI
825.	370.	3.	-4042.	15191.	84441.	51204.	1.01	20.	2.5	SI
930.	475.	3.	8683.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 930.	0.	3.	-16735.	12430.	84441.	51204.	1.01	20.	2.5	SI
1035.	105.	3.	-7832.	15191.	84441.	51204.	1.01	20.	2.5	SI
1330.	400.	3.	21059.	12430.	84441.	51204.	1.01	20.	2.5	SI
>1330.	0.	3.	-27128.	12430.	84441.	51204.	1.01	20.	2.5	SI
1417.	87.	3.	-18882.	15191.	84441.	51204.	1.01	20.	2.5	SI
1925.	595.	3.	31646.	12430.	84441.	51204.	1.01	20.	2.5	SI

## VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	204723.!	-2.5!	118.3!	16.08	10.75	.0034	33.71	.011	SI
50.	50.	3. 1.	106183.!	-1.3!	61.3!	16.08	10.75	.0018	33.71	.006	SI
430.	430.	3. 2.	-91760.!	-.5!	26.3!	32.17	10.75	.0008	15.54	.001	SI
455.	455.	3. 2.	-64260.!	-.3!	18.4!	32.17	10.75	.0005	15.54	.001	SI
> 455.	0.	3. 2.	-115218.!	-.6!	33.!	32.17	10.75	.0009	15.54	.001	SI
481.	26.	3. 2.	-143534.!	-.7!	41.2!	32.17	10.75	.0012	15.54	.002	SI
788.	333.	3. 1.	334779.!	-4.1!	193.4!	16.08	10.75	.0055	33.71	.019	SI
930.	475.	3. 2.	668873.!	-5.7!	195.!	32.17	10.75	.0056	22.81	.013	SI
> 930.	0.	3. 2.	910796.!	-7.8!	265.5!	32.17	10.75	.0076	22.81	.017	SI
1130.	200.	3. 1.	-184949.!	-1.3!	104.7!	16.08	10.75	.003	19.17	.006	SI
1330.	400.	3. 2.	1496857.!	-12.8!	436.4!	32.17	10.75	.0125	22.81	.028	SI
>1330.	0.	3. 2.	1581393.!	-13.5!	461.!	32.17	10.75	.0132	22.81	.03	SI
1628.	298.	3. 1.	-1184178.!	-8.4!	670.4!	16.08	10.75	.0192	19.17	.037	SI
1925.	595.	3. 1.	2320502.!	-28.7!	1340.5!	16.08	10.75	.0383	33.71	.129	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	198173.!	-2.4!	114.5!	16.08	10.75	.0033	33.71	.011	SI
50.	50.	3. 1.	112351.!	-1.4!	64.9!	16.08	10.75	.0019	33.71	.006	SI
430.	430.	3. 2.	-94384.!	-.5!	27.1!	32.17	10.75	.0008	15.54	.001	SI
455.	455.	3. 2.	-76643.!	-.4!	22.!	32.17	10.75	.0006	15.54	.001	SI
> 455.	0.	3. 2.	-120870.!	-.6!	34.7!	32.17	10.75	.001	15.54	.002	SI
481.	26.	3. 2.	-141482.!	-.7!	40.6!	32.17	10.75	.0012	15.54	.002	SI
788.	333.	3. 1.	303232.!	-3.7!	175.2!	16.08	10.75	.005	33.71	.017	SI
930.	475.	3. 2.	622813.!	-5.3!	181.6!	32.17	10.75	.0052	22.81	.012	SI
> 930.	0.	3. 2.	874310.!	-7.4!	254.9!	32.17	10.75	.0073	22.81	.017	SI
1130.	200.	3. 1.	-123002.!	-.9!	69.6!	16.08	10.75	.002	19.17	.004	SI
1330.	400.	3. 2.	1206978.!	-10.3!	351.9!	32.17	10.75	.0101	22.81	.023	SI
>1330.	0.	3. 2.	1281770.!	-10.9!	373.7!	32.17	10.75	.0107	22.81	.024	SI
1628.	298.	3. 1.	-1047915.!	-7.5!	593.3!	16.08	10.75	.017	19.17	.032	SI
1925.	595.	3. 1.	1972214.!	-24.4!	1139.3!	16.08	10.75	.0326	33.71	.11	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	197354.!	-2.4!	114.!	16.08	10.75	.0033	33.71	.011	SI
50.	50.	3. 1.	112236.!	-1.4!	64.8!	16.08	10.75	.0019	33.71	.006	SI
430.	430.	3. 2.	-88650.!	-.4!	25.4!	32.17	10.75	.0007	15.54	.001	SI
455.	455.	3. 2.	-71782.!	-.4!	20.6!	32.17	10.75	.0006	15.54	.001	SI
> 455.	0.	3. 2.	-113237.!	-.6!	32.5!	32.17	10.75	.0009	15.54	.001	SI
481.	26.	3. 2.	-133380.!	-.7!	38.3!	32.17	10.75	.0011	15.54	.002	SI
788.	333.	3. 1.	293502.!	-3.6!	169.6!	16.08	10.75	.0048	33.71	.016	SI
930.	475.	3. 2.	610721.!	-5.2!	178.!	32.17	10.75	.0051	22.81	.012	SI
> 930.	0.	3. 2.	866833.!	-7.4!	252.7!	32.17	10.75	.0072	22.81	.016	SI
1130.	200.	3. 1.	-115417.!	-.8!	65.3!	16.08	10.75	.0019	19.17	.004	SI
1330.	400.	3. 2.	1093195.!	-9.3!	318.7!	32.17	10.75	.0091	22.81	.021	SI
>1330.	0.	3. 2.	1164328.!	-10.9!	339.4!	32.17	10.75	.0097	22.81	.022	SI
1628.	298.	3. 1.	-1008672.!	-7.2!	571.!	16.08	10.75	.0163	19.17	.031	SI
1925.	595.	3. 1.	1854945.!	-22.9!	1071.6!	16.08	10.75	.0306	33.71	.103	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16
3	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 15 - Travata Tf015 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecud=.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Ac1s=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A164	3	3	3	0	250.	185.	2.087	1.3	3.533	91.694
2	A174	3	3	3	0	350.	320.	2.917	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	1.
7.	SLU con SISMAY PRINC16	1.
10.	SLU FON con SISMAY P16	1.
11.	SLU FON con SISMAY P16	1.

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	1907419.	-.018	.053	6739557.	-.067	.186	2.	.266	3.533	SI
148.	148.	3.	1093323.	-.009	.03	6861052.	-.056	.186	2.	.23	6.275	SI
198.	198.	3.	768496.	-.005	.011	13384511.	-.092	.186	2.	.331	17.42	SI
250.	250.	3.	294091.	-.002	.004	13384511.	-.092	.186	2.	.331	45.51	SI
> 250.	0.	3.	-52292.	0.	.001	-13571814.	-.056	.186	2.	.23	259.5	SI
250.	0.	3.	154577.	-.001	.002	13384511.	-.092	.186	2.	.331	86.59	SI
277.	26.	3.	-60490.	0.	.001	-13571814.	-.056	.186	2.	.23	224.4	SI
346.	95.	3.	-55092.	0.	.001	-6922260.	-.036	.186	2.	.161	125.6	SI
346.	95.	3.	122040.	-.001	.002	13017013.	-.111	.186	2.	.374	106.7	SI
432.	182.	3.	-16015.	0.	0.	-6877818.	-.039	.186	2.	.175	429.4	SI
548.	298.	3.	261614.	-.002	.007	6739557.	-.067	.186	2.	.266	25.76	SI
600.	350.	3.	261614.	-.002	.007	6739557.	-.067	.186	2.	.266	25.76	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-13753.	12430.	84441.	51204.	1.01	20.	2.5	SI
52.	52.	3.	-8049.	15191.	84441.	51204.	1.01	20.	2.5	SI
121.	121.	3.	3318.	15191.	84441.	51204.	1.01	20.	2.5	SI
250.	250.	3.	-2283.	12430.	84441.	51204.	1.01	20.	2.5	SI
250.	250.	3.	1255.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 250.	0.	3.	-4185.	12430.	84441.	51204.	1.01	20.	2.5	SI
346.	95.	3.	-3842.	15191.	84441.	51204.	1.01	20.	2.5	SI
600.	350.	3.	5045.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1355025.	-16.7	782.8	16.08	10.75	.0224	33.71	.075	SI
250.	250.	3.	62637.	-.5	18.3	32.17	10.75	.0005	22.81	.001	SI
> 250.	0.	3.	80736.	-.7	23.5	32.17	10.75	.0007	22.81	.002	SI
389.	138.	3.	14095.	-.2	8.1	16.08	10.75	.0002	33.71	.001	SI
600.	350.	3.	172559.	-2.1	99.7	16.08	10.75	.0028	33.71	.01	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1141265.	-14.1	659.3	16.08	10.75	.0188	33.71	.064	SI
250.	250.	3.	56726.	-.5	16.5	32.17	10.75	.0005	22.81	.001	SI
> 250.	0.	3.	68551.	-.6	20.	32.17	10.75	.0006	22.81	.001	SI
389.	138.	3.	20805.	-.3	12.	16.08	10.75	.0003	33.71	.001	SI
600.	350.	3.	173746.	-2.1	100.4	16.08	10.75	.0029	33.71	.01	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1072239.	-13.2	619.4	16.08	10.75	.0177	33.71	.06	SI
250.	250.	3.	55148.	-.5	16.1	32.17	10.75	.0005	22.81	.001	SI
> 250.	0.	3.	64929.	-.6	18.9	32.17	10.75	.0005	22.81	.001	SI
303.	52.	3.	22044.	-.2	6.4	32.17	10.75	.0002	22.81	0.	SI
600.	350.	3.	174925.	-2.2	101.1	16.08	10.75	.0029	33.71	.01	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	32.17	.447	8d16 +8d16	16.08	.223	8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16
4	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 16 - Travata Tf016 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σ (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A74	3	3	3	0	400.	355.	3.333	1.3	4.129	107.152
2	A111	3	3	3	0	595.	545.	4.958	1.3	4.059	105.333

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAY PRINC16	
7.	SLU con SISMAY PRINC16	
10.	SLU FON con SISMAY P16	
11.	SLU FON con SISMAY P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	931548.	-.009	.026	6739557.	-.067	.186	2.	.266	7.235	SI
15.	15.	3. 1.	-69482.	0.	.002	-6877818.	-.039	.186	2.	.175	98.99	SI
180.	180.	3. 1.	-396422.	-.002	.011	-6877818.	-.039	.186	2.	.175	17.35	SI
295.	295.	3. 1.	1935746.	-.019	.053	6739557.	-.067	.186	2.	.266	3.482	SI
333.	333.	3. 2.	-4702.	0.	0.	-13571814.	-.056	.186	2.	.23	2886.	SI
333.	333.	3. 2.	2865306.	-.019	.04	13384511.	-.092	.186	2.	.331	4.671	SI
348.	348.	3. 2.	3241602.	-.021	.045	13384511.	-.092	.186	2.	.331	4.129	SI
400.	400.	3. 2.	3241602.	-.021	.045	13384511.	-.092	.186	2.	.331	4.129	SI
> 400.	0.	3. 2.	3297563.	-.022	.046	13384511.	-.092	.186	2.	.331	4.059	SI
452.	52.	3. 2.	-158452.	-.001	.002	-13571814.	-.056	.186	2.	.23	85.65	SI
518.	118.	3. 3.	-941860.	-.005	.025	-6922260.	-.036	.186	2.	.161	7.35	SI
518.	118.	3. 3.	1310832.	-.01	.019	13017013.	-.111	.186	2.	.374	9.93	SI
698.	298.	3. 1.	-2032852.	-.011	.055	-6877818.	-.039	.186	2.	.175	3.383	SI
943.	543.	3. 1.	2268822.	-.022	.063	6739557.	-.067	.186	2.	.266	2.971	SI
995.	595.	3. 1.	-30549.	0.	.001	-6877818.	-.039	.186	2.	.175	225.1	SI
995.	595.	3. 1.	2268822.	-.022	.063	6739557.	-.067	.186	2.	.266	2.971	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-15899.	12430.	84441.	51204.	1.01	20.	2.5

52.	52.	3.	-10425.	15191.	84441.	51204.	1.01	20.	2.5	SI
400.	400.	3.	27883.	15191.	84441.	51204.	1.01	20.	2.5	SI
> 400.	0.	3.	-34247.	15191.	84441.	51204.	1.01	20.	2.5	SI
995.	595.	3.	30438.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3. 1.	629840.	-7.8	363.8	16.08	10.75	.0104	33.71	.035	SI
30.	30.	3. 1.	348821.	-4.3	201.5	16.08	10.75	.0058	33.71	.019	SI
147.	147.	3. 1.	-258962.	-1.8	146.6	16.08	10.75	.0042	19.17	.008	SI
400.	400.	3. 2.	2287024.	-19.5	666.8	32.17	10.75	.0191	22.81	.043	SI
> 400.	0.	3. 2.	2325413.	-19.8	677.9	32.17	10.75	.0194	22.81	.044	SI
698.	298.	3. 1.	-1467518.	-10.5	830.8	16.08	10.75	.025	19.17	.048	SI
995.	595.	3. 1.	1601595.	-19.8	925.2	16.08	10.75	.0264	33.71	.089	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3. 1.	664955.	-8.2	384.1	16.08	10.75	.011	33.71	.037	SI
30.	30.	3. 1.	398183.	-4.9	230.	16.08	10.75	.0066	33.71	.022	SI
147.	147.	3. 1.	-175492.	-1.3	99.4	16.08	10.75	.0028	19.17	.005	SI
400.	400.	3. 2.	1834315.	-15.6	534.8	32.17	10.75	.0153	22.81	.035	SI
> 400.	0.	3. 2.	1885951.	-16.1	549.8	32.17	10.75	.0157	22.81	.036	SI
698.	298.	3. 1.	-1316203.	-9.4	745.1	16.08	10.75	.0213	19.17	.041	SI
995.	595.	3. 1.	1377917.	-17.	796.	16.08	10.75	.0227	33.71	.077	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	Wd	Ve
> 0.	0.	3. 1.	681960.	-8.4	394.	16.08	10.75	.0113	33.71	.038	SI
30.	30.	3. 1.	418358.	-5.2	241.7	16.08	10.75	.0069	33.71	.023	SI
147.	147.	3. 1.	-153419.	-1.1	86.9	16.08	10.75	.0025	19.17	.005	SI
400.	400.	3. 2.	1667308.	-14.2	486.1	32.17	10.75	.0139	22.81	.032	SI
> 400.	0.	3. 2.	1724719.	-14.7	502.8	32.17	10.75	.0144	22.81	.033	SI
698.	298.	3. 1.	-1267426.	-9.	717.5	16.08	10.75	.0205	19.17	.039	SI
995.	595.	3. 1.	1306503.	-16.1	754.7	16.08	10.75	.0216	33.71	.073	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16
3	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 17 - Travata Tf017 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdmx(fre)=.4 ; wdmx(q.p)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; AclS=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A75	3	3	3	0	400.	355.	3.333	1.3	4.715	122.37
2	A112	3	3	3	0	595.	530.	4.958	1.3	4.428	114.901

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.

3. |SLU VENTOY 2. |  
6. |SLU con SISMAX PRINC16 |  
7. |SLU con SISMAX PRINC16 |  
10. |SLU FON con SISMAX P16 |  
11. |SLU FON con SISMAX P16 |

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epscl	Epsac	Mrd	Epscl	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-159490.	-.001	.004	-6877818.	-.039	.186	2.	.175	43.12	SI
0.	0.	3.	1.	1180879.	-.011	.033	6739557.	-.067	.186	2.	.266	5.707	SI
180.	180.	3.	1.	-657942.	-.004	.018	-6877818.	-.039	.186	2.	.175	10.45	SI
295.	295.	3.	2.	-482376.	-.002	.013	-6922260.	-.036	.186	2.	.161	14.35	SI
295.	295.	3.	2.	1591771.	-.012	.023	13017013.	-.111	.186	2.	.374	8.178	SI
333.	333.	3.	3.	-256826.	-.001	.004	-13571814.	-.056	.186	2.	.23	52.84	SI
333.	333.	3.	3.	2478973.	-.016	.034	13384511.	-.092	.186	2.	.331	5.399	SI
348.	348.	3.	3.	-149630.	-.001	.002	-13571814.	-.056	.186	2.	.23	90.7	SI
348.	348.	3.	3.	2838452.	-.018	.039	13384511.	-.092	.186	2.	.331	4.715	SI
400.	400.	3.	3.	2838452.	-.018	.039	13384511.	-.092	.186	2.	.331	4.715	SI
> 400.	0.	3.	3.	3022983.	-.02	.042	13384511.	-.092	.186	2.	.331	4.428	SI
418.	18.	3.	3.	-94596.	0.	.001	-13571814.	-.056	.186	2.	.23	143.5	SI
518.	118.	3.	2.	-1392289.	-.007	.037	-6922260.	-.036	.186	2.	.161	4.972	SI
518.	118.	3.	2.	957318.	-.007	.014	13017013.	-.111	.186	2.	.374	13.6	SI
698.	298.	3.	1.	-2646660.	-.015	.072	-6877818.	-.039	.186	2.	.175	2.599	SI
995.	595.	3.	1.	-341413.	-.002	.009	-6877818.	-.039	.186	2.	.175	20.15	SI
995.	595.	3.	1.	1541018.	-.015	.042	6739557.	-.067	.186	2.	.266	4.373	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-18297.	12430.	84441.	51204.	1.01	20.	2.5	SI
67.	67.	3.	1.	-10773.	15191.	84441.	51204.	1.01	20.	2.5	SI
400.	400.	3.	1.	26972.	15191.	84441.	51204.	1.01	20.	2.5	SI
> 400.	0.	3.	1.	-35465.	15191.	84441.	51204.	1.01	20.	2.5	SI
995.	595.	3.	1.	30910.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	797337.	-9.8	460.6	16.08	10.75	.0132	33.71	.044	SI
30.	30.	3.	1.	465212.	-5.7	268.7	16.08	10.75	.0077	33.71	.026	SI
147.	147.	3.	1.	-343505.	-2.5	194.5	16.08	10.75	.0056	19.17	.011	SI
400.	400.	3.	3.	1995443.	-17.	581.7	32.17	10.75	.0166	22.81	.038	SI
> 400.	0.	3.	3.	2126197.	-18.1	619.9	32.17	10.75	.0177	22.81	.04	SI
698.	298.	3.	1.	-1917292.	-13.7	1085.4	16.08	10.75	.0372	19.17	.071	SI
995.	595.	3.	1.	1063444.	-13.1	614.3	16.08	10.75	.0176	33.71	.059	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	778092.	-9.6	449.5	16.08	10.75	.0128	33.71	.043	SI
30.	30.	3.	1.	466423.	-5.8	269.4	16.08	10.75	.0077	33.71	.026	SI
180.	180.	3.	1.	-259671.	-1.9	147.	16.08	10.75	.0042	19.17	.008	SI
400.	400.	3.	3.	1573165.	-13.4	458.6	32.17	10.75	.0131	22.81	.03	SI
> 400.	0.	3.	3.	1679313.	-14.3	489.6	32.17	10.75	.014	22.81	.032	SI
698.	298.	3.	1.	-1697028.	-12.1	960.7	16.08	10.75	.0312	19.17	.06	SI
995.	595.	3.	1.	972509.	-12.	561.8	16.08	10.75	.0161	33.71	.054	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	775477.	-9.6	448.	16.08	10.75	.0128	33.71	.043	SI
30.	30.	3.	1.	470380.	-5.8	271.7	16.08	10.75	.0078	33.71	.026	SI
200.	200.	3.	1.	-245029.	-1.7	138.7	16.08	10.75	.004	19.17	.008	SI
400.	400.	3.	3.	1423388.	-12.1	415.	32.17	10.75	.0119	22.81	.027	SI
> 400.	0.	3.	3.	1522571.	-13.	443.9	32.17	10.75	.0127	22.81	.029	SI
698.	298.	3.	1.	-1621561.	-11.6	918.	16.08	10.75	.0292	19.17	.056	SI
995.	595.	3.	1.	946441.	-11.7	546.7	16.08	10.75	.0156	33.71	.053	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl - Acl=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 18 - Travata Tf018 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acls=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A76	3	3	3	0	400.	355.	3.333	1.3	5.	129.755
2	A113	3	3	3	0	595.	510.	4.958	1.3	4.854	125.977

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16
10.	SLU FON con SISMAX P16	16
11.	SLU FON con SISMAX P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-281934.	-.002	.008	-6877818.	-.039	.186	2.	.175	24.4	SI
0.	0.	3.	1.	1384188.	-.013	.038	6739557.	-.067	.186	2.	.266	4.869	SI
180.	180.	3.	1.	-808044.	-.004	.022	-6877818.	-.039	.186	2.	.175	8.512	SI
295.	295.	3.	2.	-629318.	-.003	.017	-6922260.	-.036	.186	2.	.161	11.	SI
295.	295.	3.	2.	1456321.	-.011	.021	13017013.	-.111	.186	2.	.374	18.938	SI
333.	333.	3.	3.	-399055.	-.002	.005	-13571814.	-.056	.186	2.	.23	34.01	SI
333.	333.	3.	3.	2317603.	-.015	.032	13384511.	-.092	.186	2.	.331	5.775	SI
348.	348.	3.	3.	2666732.	-.017	.037	13384511.	-.092	.186	2.	.331	5.019	SI
366.	366.	3.	3.	-101622.	0.	.001	-13571814.	-.056	.186	2.	.23	133.6	SI
400.	400.	3.	3.	2666732.	-.017	.037	13384511.	-.092	.186	2.	.331	5.019	SI
> 400.	0.	3.	3.	-24544.	0.	0.	-13571814.	-.056	.186	2.	.23	553.	SI
400.	0.	3.	3.	2757183.	-.018	.038	13384511.	-.092	.186	2.	.331	4.854	SI
518.	118.	3.	2.	-1601249.	-.008	.043	-6922260.	-.036	.186	2.	.161	4.323	SI
518.	118.	3.	2.	709044.	-.005	.01	13017013.	-.111	.186	2.	.374	18.36	SI
698.	298.	3.	1.	-2848483.	-.016	.077	-6877818.	-.039	.186	2.	.175	2.415	SI
995.	595.	3.	1.	-591041.	-.003	.016	-6877818.	-.039	.186	2.	.175	11.64	SI
995.	595.	3.	1.	1688882.	-.016	.047	6739557.	-.067	.186	2.	.266	3.991	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-19192.	12430.	84441.	51204.	1.01	20.	2.5	SI
52.	52.	3.	1.	-13237.	15191.	84441.	51204.	1.01	20.	2.5	SI
400.	400.	3.	1.	26410.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 400.	0.	3.	1.	-35175.	12430.	84441.	51204.	1.01	20.	2.5	SI
487.	87.	3.	1.	-25544.	15191.	84441.	51204.	1.01	20.	2.5	SI
995.	595.	3.	1.	31691.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	878627.	-10.8	507.6	16.08	10.75	.0145	33.71	.049	SI
30.	30.	3. 1.	527835.	-6.5	304.9	16.08	10.75	.0087	33.71	.029	SI
147.	147.	3. 1.	-365885.	-2.6	207.1	16.08	10.75	.0059	19.17	.011	SI
400.	400.	3. 3.	1866579.	-15.9	544.2	32.17	10.75	.0155	22.81	.035	SI
> 400.	0.	3. 3.	1932434.	-16.5	563.4	32.17	10.75	.0161	22.81	.037	SI
698.	298.	3. 1.	-2063805.	-14.7	1168.4	16.08	10.75	.0411	19.17	.079	SI
995.	595.	3. 1.	1056456.	-13.	610.3	16.08	10.75	.0174	33.71	.059	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	846922.	-10.5	489.2	16.08	10.75	.014	33.71	.047	SI
30.	30.	3. 1.	515595.	-6.4	297.8	16.08	10.75	.0085	33.71	.029	SI
52.	52.	3. 1.	279351.	-3.4	161.4	16.08	10.75	.0046	33.71	.016	SI
200.	200.	3. 1.	-302006.	-2.2	171.	16.08	10.75	.0049	19.17	.009	SI
400.	400.	3. 3.	1438923.	-12.3	419.5	32.17	10.75	.012	22.81	.027	SI
> 400.	0.	3. 3.	1490306.	-12.7	434.5	32.17	10.75	.0124	22.81	.028	SI
698.	298.	3. 1.	-1822324.	-13.	1031.7	16.08	10.75	.0346	19.17	.066	SI
995.	595.	3. 1.	976289.	-12.1	564.	16.08	10.75	.0161	33.71	.054	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	840083.	-10.4	485.3	16.08	10.75	.0139	33.71	.047	SI
30.	30.	3. 1.	515487.	-6.4	297.8	16.08	10.75	.0085	33.71	.029	SI
52.	52.	3. 1.	283875.	-3.5	164.	16.08	10.75	.0047	33.71	.016	SI
200.	200.	3. 1.	-291887.	-2.1	165.2	16.08	10.75	.0047	19.17	.009	SI
400.	400.	3. 3.	1289237.	-11.	375.9	32.17	10.75	.0107	22.81	.024	SI
> 400.	0.	3. 3.	1338678.	-11.4	390.3	32.17	10.75	.0112	22.81	.025	SI
698.	298.	3. 1.	-1738928.	-12.4	984.5	16.08	10.75	.0323	19.17	.062	SI
995.	595.	3. 1.	955504.	-11.8	552.	16.08	10.75	.0158	33.71	.053	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 19 - Travata Tf019 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acl's=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A77	3	3	3	0	400.	355.	3.333	1.3	5.	129.755
2	A114	3	3	3	0	595.	510.	4.958	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16



10. |SLU FON con SISMAX P16|  
 11. |SLU FON con SISMAX P16|

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-361676.	-.002	.01	-6877818.	-.039	.186	2.	.175	19.02	SI
0.	0.	3.	1.	1509723.	-.014	.042	6739557.	-.067	.186	2.	.266	4.464	SI
180.	180.	3.	1.	-931213.	-.005	.025	-6877818.	-.039	.186	2.	.175	7.386	SI
295.	295.	3.	2.	-748175.	-.004	.02	-6922260.	-.036	.186	2.	.161	9.252	SI
295.	295.	3.	2.	1463182.	-.011	.021	13017013.	-.111	.186	2.	.374	8.896	SI
333.	333.	3.	3.	-510255.	-.002	.007	-13571814.	-.056	.186	2.	.23	26.6	SI
333.	333.	3.	3.	2305044.	-.015	.032	13384511.	-.092	.186	2.	.331	5.807	SI
348.	348.	3.	3.	2647271.	-.017	.037	13384511.	-.092	.186	2.	.331	5.056	SI
385.	385.	3.	3.	-9623.	0.	0.	-13571814.	-.056	.186	2.	.23	1410.	SI
400.	400.	3.	3.	2647271.	-.017	.037	13384511.	-.092	.186	2.	.331	5.056	SI
> 400.	0.	3.	3.	-140809.	-.001	.002	-13571814.	-.056	.186	2.	.23	96.38	SI
400.	0.	3.	3.	2607773.	-.017	.036	13384511.	-.092	.186	2.	.331	5.133	SI
518.	118.	3.	2.	-1644323.	-.008	.044	-6922260.	-.036	.186	2.	.161	4.21	SI
518.	118.	3.	2.	623971.	-.005	.009	13017013.	-.111	.186	2.	.374	20.86	SI
549.	149.	3.	2.	19451.	0.	0.	13017013.	-.111	.186	2.	.374	669.2	SI
698.	298.	3.	1.	-2885517.	-.016	.078	-6877818.	-.039	.186	2.	.175	2.384	SI
995.	595.	3.	1.	-748544.	-.004	.02	-6877818.	-.039	.186	2.	.175	9.188	SI
995.	595.	3.	1.	1732737.	-.017	.048	6739557.	-.067	.186	2.	.266	3.89	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	1.	-19206.	12430.	84441.	51204.	1.01	20.	2.5	SI
52.	52.	3.	1.	-13228.	15191.	84441.	51204.	1.01	20.	2.5	SI
400.	400.	3.	3.	26137.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 400.	0.	3.	3.	-34498.	12430.	84441.	51204.	1.01	20.	2.5	SI
487.	87.	3.	3.	-25041.	15191.	84441.	51204.	1.01	20.	2.5	SI
995.	595.	3.	1.	31026.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	914488.	-11.3	528.3	16.08	10.75	.0151	33.71	.051	SI
30.	30.	3.	1.	564747.	-7.	326.2	16.08	10.75	.0093	33.71	.031	SI
147.	147.	3.	1.	-344689.	-2.5	195.1	16.08	10.75	.0056	19.17	.011	SI
400.	400.	3.	3.	1849562.	-15.8	539.2	32.17	10.75	.0154	22.81	.035	SI
> 400.	0.	3.	3.	1825143.	-15.6	532.1	32.17	10.75	.0152	22.81	.035	SI
698.	298.	3.	1.	-2094152.	-14.9	1185.6	16.08	10.75	.0419	19.17	.08	SI
995.	595.	3.	1.	999341.	-12.3	577.3	16.08	10.75	.0165	33.71	.056	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	888318.	-11.	513.2	16.08	10.75	.0147	33.71	.049	SI
30.	30.	3.	1.	553038.	-6.8	319.5	16.08	10.75	.0091	33.71	.031	SI
52.	52.	3.	1.	313889.	-3.9	181.3	16.08	10.75	.0052	33.71	.017	SI
200.	200.	3.	1.	-289346.	-2.1	163.8	16.08	10.75	.0047	19.17	.009	SI
400.	400.	3.	3.	1417237.	-12.1	413.2	32.17	10.75	.0118	22.81	.027	SI
> 400.	0.	3.	3.	1396406.	-11.9	407.1	32.17	10.75	.0116	22.81	.027	SI
698.	298.	3.	1.	-1856000.	-13.2	1050.7	16.08	10.75	.0355	19.17	.068	SI
995.	595.	3.	1.	942708.	-11.6	544.6	16.08	10.75	.0156	33.71	.052	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	883896.	-10.9	510.6	16.08	10.75	.0146	33.71	.049	SI
30.	30.	3.	1.	553801.	-6.8	319.9	16.08	10.75	.0091	33.71	.031	SI
52.	52.	3.	1.	318175.	-3.9	183.8	16.08	10.75	.0053	33.71	.018	SI
200.	200.	3.	1.	-281222.	-2.	159.2	16.08	10.75	.0045	19.17	.009	SI
400.	400.	3.	3.	1266393.	-10.8	369.2	32.17	10.75	.0105	22.81	.024	SI
> 400.	0.	3.	3.	1251259.	-10.7	364.8	32.17	10.75	.0104	22.81	.024	SI
698.	298.	3.	1.	-1774688.	-12.7	1004.7	16.08	10.75	.0333	19.17	.064	SI
995.	595.	3.	1.	930480.	-11.5	537.5	16.08	10.75	.0154	33.71	.052	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16

3|64.34| .894|32.17| .447|8d16 +8d16 |32.17| .447|8d16 +8d16 |

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 20 - Travata Tf020 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acls=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A78	3	3	3	0	400.	355.	3.333	1.3	5.	129.755
2	A115	3	3	3	0	595.	510.	4.958	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAY PRINC16	
10.	SLU FON con SISMAX P16	
11.	SLU FON con SISMAY P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-478778.	-.003	.013	-6877818.	-.039	.186	2.	.175	14.37	SI
0.	0.	3.	1.	1389372.	-.013	.038	6739557.	-.067	.186	2.	.266	4.851	SI
147.	147.	3.	1.	-1062000.	-.006	.029	-6877818.	-.039	.186	2.	.175	6.476	SI
295.	295.	3.	2.	-845028.	-.004	.023	-6922260.	-.036	.186	2.	.161	8.192	SI
295.	295.	3.	2.	1363134.	-.011	.019	13017013.	-.111	.186	2.	.374	9.549	SI
333.	333.	3.	3.	2049455.	-.013	.028	13384511.	-.092	.186	2.	.331	6.531	SI
348.	348.	3.	3.	2330930.	-.015	.032	13384511.	-.092	.186	2.	.331	5.742	SI
400.	400.	3.	3.	-125137.	0.	.002	-13571814.	-.056	.186	2.	.23	108.5	SI
400.	400.	3.	3.	2330930.	-.015	.032	13384511.	-.092	.186	2.	.331	5.742	SI
> 400.	0.	3.	3.	-266579.	-.001	.004	-13571814.	-.056	.186	2.	.23	50.91	SI
400.	0.	3.	3.	2442060.	-.016	.034	13384511.	-.092	.186	2.	.331	5.481	SI
518.	118.	3.	2.	-1614425.	-.008	.043	-6922260.	-.036	.186	2.	.161	4.288	SI
518.	118.	3.	2.	913960.	-.007	.013	13017013.	-.111	.186	2.	.374	14.24	SI
698.	298.	3.	1.	-2777094.	-.016	.075	-6877818.	-.039	.186	2.	.175	2.477	SI
995.	595.	3.	1.	-805528.	-.004	.022	-6877818.	-.039	.186	2.	.175	8.538	SI
995.	595.	3.	1.	1498435.	-.014	.041	6739557.	-.067	.186	2.	.266	4.498	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-19155.	12430.	84441.	51204.	1.01	20.	2.5	SI
52.	52.	3.	1.	-13224.	15191.	84441.	51204.	1.01	20.	2.5	SI
400.	400.	3.	1.	25078.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 400.	0.	3.	1.	-32727.	12430.	84441.	51204.	1.01	20.	2.5	SI
487.	87.	3.	1.	-23769.	15191.	84441.	51204.	1.01	20.	2.5	SI
995.	595.	3.	1.	29383.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	824859.	-10.2	476.5	16.08	10.75	.0136	33.71	.046	SI
30.	30.	3.	481091.	-5.9	277.9	16.08	10.75	.0079	33.71	.027	SI
52.	52.	3.	236262.	-2.9	136.5	16.08	10.75	.0039	33.71	.013	SI
147.	147.	3.	-421830.	-3.	238.8	16.08	10.75	.0068	19.17	.013	SI
400.	400.	3.	1651507.	-14.1	481.5	32.17	10.75	.0138	22.81	.031	SI
> 400.	0.	3.	1732193.	-14.8	505.	32.17	10.75	.0144	22.81	.033	SI
698.	298.	3.	-2019165.	-14.4	1143.1	16.08	10.75	.0399	19.17	.076	SI
995.	595.	3.	885753.	-10.9	511.7	16.08	10.75	.0146	33.71	.049	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	779796.	-9.6	450.5	16.08	10.75	.0129	33.71	.043	SI
30.	30.	3.	453781.	-5.6	262.1	16.08	10.75	.0075	33.71	.025	SI
52.	52.	3.	221401.	-2.7	127.9	16.08	10.75	.0037	33.71	.012	SI
200.	200.	3.	-343438.	-2.5	194.4	16.08	10.75	.0056	19.17	.011	SI
400.	400.	3.	1386924.	-11.8	404.3	32.17	10.75	.0116	22.81	.026	SI
> 400.	0.	3.	1459049.	-12.4	425.4	32.17	10.75	.0122	22.81	.028	SI
698.	298.	3.	-1798805.	-12.8	1018.4	16.08	10.75	.034	19.17	.065	SI
995.	595.	3.	833074.	-10.3	481.3	16.08	10.75	.0138	33.71	.046	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	768081.	-9.5	443.7	16.08	10.75	.0127	33.71	.043	SI
30.	30.	3.	448706.	-5.5	259.2	16.08	10.75	.0074	33.71	.025	SI
52.	52.	3.	220979.	-2.7	127.7	16.08	10.75	.0036	33.71	.012	SI
200.	200.	3.	-324284.	-2.3	183.6	16.08	10.75	.0052	19.17	.01	SI
400.	400.	3.	1296405.	-11.	378.	32.17	10.75	.0108	22.81	.025	SI
> 400.	0.	3.	1369034.	-11.7	399.1	32.17	10.75	.0114	22.81	.026	SI
698.	298.	3.	-1726026.	-12.3	977.2	16.08	10.75	.032	19.17	.061	SI
995.	595.	3.	820661.	-10.1	474.1	16.08	10.75	.0135	33.71	.046	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 21 - Travata Tf021 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecud=.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(eserczio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acl<sub>s</sub>=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A86	3	3	3	0	400.	335.	3.333	1.3	5.	129.755
2	A121	3	3	3	0	595.	510.	4.958	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	

7. |SLU con SISMAY PRINC16|  
 10. |SLU FON con SISMAX P16|  
 11. |SLU FON con SISMAY P16|

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-116564.	-.001	.003	-6877818.	-.039	.186	2.	.175	59.01	SI
0.	0.	3. 1.	147420.	-.001	.004	6739557.	-.067	.186	2.	.266	45.72	SI
50.	50.	3. 1.	-118565.	-.001	.003	-6877818.	-.039	.186	2.	.175	58.01	SI
220.	220.	3. 1.	-35746.	0.	.001	-6877818.	-.039	.186	2.	.175	192.4	SI
258.	258.	3. 1.	220758.	-.002	.006	6739557.	-.067	.186	2.	.266	30.53	SI
295.	295.	3. 2.	-95817.	0.	.003	-6922260.	-.036	.186	2.	.161	72.25	SI
295.	295.	3. 2.	258637.	-.002	.004	13017013.	-.111	.186	2.	.374	50.33	SI
333.	333.	3. 3.	202615.	-.001	.003	13384511.	-.092	.186	2.	.331	66.06	SI
400.	400.	3. 3.	-96576.	0.	.001	-13571814.	-.056	.186	2.	.23	140.5	SI
400.	400.	3. 3.	202697.	-.001	.003	13384511.	-.092	.186	2.	.331	66.03	SI
> 400.	0.	3. 3.	-159408.	-.001	.002	-13571814.	-.056	.186	2.	.23	85.14	SI
400.	0.	3. 3.	202698.	-.001	.003	13384511.	-.092	.186	2.	.331	66.03	SI
518.	118.	3. 2.	-166205.	-.001	.004	-6922260.	-.036	.186	2.	.161	41.65	SI
518.	118.	3. 2.	94346.	-.001	.001	13017013.	-.111	.186	2.	.374	138.	SI
737.	337.	3. 1.	-372351.	-.002	.01	-6877818.	-.039	.186	2.	.175	18.47	SI
737.	337.	3. 1.	1884.	0.	0.	6739557.	-.067	.186	2.	.266	3578.	SI
995.	595.	3. 1.	-199110.	-.001	.005	-6877818.	-.039	.186	2.	.175	34.54	SI
995.	595.	3. 1.	25147.	0.	.001	6739557.	-.067	.186	2.	.266	268.	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3. 1.	-6168.	12430.	84441.	51204.	1.01	20.	2.5	SI
50.	50.	3. 1.	-806.	15191.	84441.	51204.	1.01	20.	2.5	SI
295.	295.	3. 1.	6068.	15191.	84441.	51204.	1.01	20.	2.5	SI
400.	400.	3. 1.	4352.	12430.	84441.	51204.	1.01	20.	2.5	SI
> 400.	0.	3. 1.	-5194.	12430.	84441.	51204.	1.01	20.	2.5	SI
487.	87.	3. 1.	4228.	15191.	84441.	51204.	1.01	20.	2.5	SI
995.	595.	3. 1.	6913.	12430.	84441.	51204.	1.01	20.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	91201.	-1.1	52.7	16.08	10.75	.0015	33.71	.005	SI
25.	25.	3. 1.	12030.	-.1	6.9	16.08	10.75	.0002	33.71	.001	SI
50.	50.	3. 1.	-35638.	-.3	20.2	16.08	10.75	.0006	19.17	.001	SI
295.	295.	3. 2.	133344.	-1.3	39.6	32.17	10.75	.0011	22.81	.003	SI
400.	400.	3. 3.	75562.	-.6	22.	32.17	10.75	.0006	22.81	.001	SI
> 400.	0.	3. 3.	53022.	-.5	15.5	32.17	10.75	.0004	22.81	.001	SI
737.	337.	3. 1.	-246009.	-1.8	139.3	16.08	10.75	.004	19.17	.008	SI
995.	595.	3. 1.	-1305.	0.	.7	16.08	10.75	0.	19.17	0.	SI
995.	595.	3. 1.	2643.	0.	1.5	16.08	10.75	0.	33.71	0.	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	84219.	-1.	48.7	16.08	10.75	.0014	33.71	.005	SI
50.	50.	3. 1.	-21375.	-.2	12.1	16.08	10.75	.0003	19.17	.001	SI
295.	295.	3. 2.	127803.	-1.3	38.	32.17	10.75	.0011	22.81	.002	SI
400.	400.	3. 3.	65302.	-.6	19.	32.17	10.75	.0005	22.81	.001	SI
> 400.	0.	3. 3.	41541.	-.4	12.1	32.17	10.75	.0003	22.81	.001	SI
737.	337.	3. 1.	-215636.	-1.5	122.1	16.08	10.75	.0035	19.17	.007	SI
995.	595.	3. 1.	7992.	-.1	4.6	16.08	10.75	.0001	33.71	0.	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	82039.	-1.	47.4	16.08	10.75	.0014	33.71	.005	SI
50.	50.	3. 1.	-17096.	-.1	9.7	16.08	10.75	.0003	19.17	.001	SI
200.	200.	3. 1.	82695.	-1.	47.8	16.08	10.75	.0014	33.71	.005	SI
295.	295.	3. 2.	126607.	-1.2	37.6	32.17	10.75	.0011	22.81	.002	SI
400.	400.	3. 3.	63170.	-.5	18.4	32.17	10.75	.0005	22.81	.001	SI
> 400.	0.	3. 3.	39164.	-.3	11.4	32.17	10.75	.0003	22.81	.001	SI
737.	337.	3. 1.	-206560.	-1.5	116.9	16.08	10.75	.0033	19.17	.006	SI
995.	595.	3. 1.	10385.	-.1	6.	16.08	10.75	.0002	33.71	.001	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	16.08	.223	8d16	32.17	.447	8d16 +8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 155 - Travata Tf030 (fondazione)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.2% (limit.elastico)  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=393.3. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: largh.=120.; alt.=120.; sp.ala=30.; sp.an.=40.; Acls=7200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A163	3	3	3	0	345.	290.	2.875	1.3	1.92	49.817
2	A173	3	3	3	0	350.	320.	2.917	1.3	5.	129.755

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	
10.	SLU FON con SISMAX P16	
11.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac1	Mrd	Epsc1	Epsac1	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	3510801.	-.034	.097	6739557.	-.067	.186	2.	.266	1.92	SI
94.	94.	3.	-76840.	0.	.002	-6877818.	-.039	.186	2.	.175	89.51	SI
268.	268.	3.	-457897.	-.002	.006	-13571814.	-.056	.186	2.	.23	29.64	SI
268.	268.	3.	433138.	-.003	.006	13384511.	-.092	.186	2.	.331	30.9	SI
345.	345.	3.	-431646.	-.002	.006	-13571814.	-.056	.186	2.	.23	31.44	SI
345.	345.	3.	500963.	-.003	.007	13384511.	-.092	.186	2.	.331	26.72	SI
> 345.	0.	3.	-518866.	-.002	.007	-13571814.	-.056	.186	2.	.23	26.16	SI
345.	0.	3.	467248.	-.003	.006	13384511.	-.092	.186	2.	.331	28.65	SI
440.	95.	3.	-709505.	-.004	.019	-6877818.	-.039	.186	2.	.175	9.694	SI
483.	138.	3.	-721932.	-.004	.02	-6877818.	-.039	.186	2.	.175	9.527	SI
483.	138.	3.	35762.	0.	.001	6739557.	-.067	.186	2.	.266	188.5	SI
643.	298.	3.	1006844.	-.01	.028	6739557.	-.067	.186	2.	.266	6.694	SI
695.	350.	3.	1006844.	-.01	.028	6739557.	-.067	.186	2.	.266	6.694	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-26496.	12430.	84441.	51204.	1.01	20.	2.5
52.	52.	3.	-21115.	15191.	84441.	51204.	1.01	20.	2.5
345.	345.	3.	7562.	12430.	84441.	51204.	1.01	20.	2.5
> 345.	0.	3.	-13336.	12430.	84441.	51204.	1.01	20.	2.5
440.	95.	3.	-4974.	15191.	84441.	51204.	1.01	20.	2.5
695.	350.	3.	16342.	12430.	84441.	51204.	1.01	20.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	2488505.!	-30.7!	1437.6!	16.08	10.75	.0411	33.71	.138!	SI
52.	52.	3.	1.	1612548.!	-19.9	931.5	16.08	10.75	.0266	33.71	.09	SI
268.	268.	3.	3.	-44346.!	-.2	12.7	32.17	10.75	.0004	15.54	.001	SI
345.	345.	3.	3.	225613.!	-1.9	65.8	32.17	10.75	.0019	22.81	.004	SI
> 345.	0.	3.	3.	298749.!	-2.5	87.1	32.17	10.75	.0025	22.81	.006	SI
483.	138.	3.	1.	-477237.!	-3.4	270.2	16.08	10.75	.0077	19.17	.015	SI
695.	350.	3.	1.	688292.!	-8.5!	397.6!	16.08	10.75	.0114	33.71	.038!	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	2118114.!	-26.2!	1223.6!	16.08	10.75	.035	33.71	.118!	SI
52.	52.	3.	1.	1351609.!	-16.7	780.8	16.08	10.75	.0223	33.71	.075	SI
268.	268.	3.	3.	-54049.!	-.3	15.5	32.17	10.75	.0004	15.54	.001	SI
345.	345.	3.	3.	136132.!	-1.2	39.7	32.17	10.75	.0011	22.81	.003	SI
> 345.	0.	3.	3.	171763.!	-1.5	50.1	32.17	10.75	.0014	22.81	.003	SI
483.	138.	3.	1.	-415002.!	-3.	234.9	16.08	10.75	.0067	19.17	.013	SI
695.	350.	3.	1.	711957.!	-8.8!	411.3!	16.08	10.75	.0118	33.71	.04	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	1991638.!	-24.6!	1150.5!	16.08	10.75	.0329	33.71	.111!	SI
52.	52.	3.	1.	1264083.!	-15.6	730.2	16.08	10.75	.0209	33.71	.07	SI
268.	268.	3.	3.	-55205.!	-.3	15.8	32.17	10.75	.0005	15.54	.001	SI
345.	345.	3.	3.	114761.!	-1.	33.5	32.17	10.75	.001	22.81	.002	SI
> 345.	0.	3.	3.	134041.!	-1.1	39.1	32.17	10.75	.0011	22.81	.003	SI
483.	138.	3.	1.	-392706.!	-2.8	222.3	16.08	10.75	.0064	19.17	.012	SI
695.	350.	3.	1.	723346.!	-8.9!	417.9!	16.08	10.75	.0119	33.71	.04	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	32.17	.447	16.08	.223	8d16	16.08	.223	8d16
2	48.25	.67	32.17	.447	8d16 +8d16	16.08	.223	8d16
3	64.34	.894	32.17	.447	8d16 +8d16	32.17	.447	8d16 +8d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 30 - Travata Tt001 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600. ; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1'7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A274	3	3	3	0	395.	355.	9.875	1.3	1.73	39.101
2	A275	3	3	3	0	475.	435.	11.875	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	SLU	Sest
1.	SLU	1.	1.
2.	SLU VENTOX	2.	2.
3.	SLU VENTYO	2.	2.
6.	SLU con SISMAY PRINC16	16	16
7.	SLU con SISMAY PRINC16	16	16

RARE | FREQUENTI | QUASI PERMANENTI |

Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-374425.	-.055	.138	-.546809.	-.35	2.278	3.	.133	1.46	SI
0.	0.	3.	1.	91197.	-.013	.034	546809.	-.35	2.278	3.	.133	5.996	SI
192.	192.	3.	1.	316010.	-.046	.117	546809.	-.35	2.278	3.	.133	1.73	SI
271.	271.	3.	1.	-22026.	-.003	.008	-546809.	-.35	2.278	3.	.133	24.83	SI
310.	310.	3.	2.	-110023.	-.012	.021	-1039699.	-.35	1.395	3.	.201	9.45	SI
310.	310.	3.	2.	232285.	-.03	.086	547697.	-.35	2.388	3.	.128	2.358	SI
354.	354.	3.	3.	175575.	-.017	.033	1051660.	-.35	1.781	3.	.164	5.99	SI
395.	395.	3.	3.	-281864.	-.028	.053	-1051660.	-.35	1.781	3.	.164	3.731	SI
395.	395.	3.	3.	101379.	-.01	.019	1051660.	-.35	1.781	3.	.164	10.37	SI
> 395.	0.	3.	3.	-177464.	-.018	.033	-1051660.	-.35	1.781	3.	.164	5.926	SI
395.	0.	3.	3.	61778.	-.006	.012	1051660.	-.35	1.781	3.	.164	17.02	SI
458.	63.	3.	2.	-137235.	-.015	.026	-1039699.	-.35	1.395	3.	.201	7.576	SI
458.	63.	3.	2.	67765.	-.009	.025	547697.	-.35	2.388	3.	.128	8.082	SI
615.	220.	3.	1.	-752.	0.	0.	-546809.	-.35	2.278	3.	.133	727.6	SI
870.	475.	3.	1.	-173141.	-.025	.064	-546809.	-.35	2.278	3.	.133	3.158	SI
870.	475.	3.	1.	58110.	-.008	.021	546809.	-.35	2.278	3.	.133	9.41	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-1324.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	1.	7320.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	-2284.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	-2284.	4455.	24411.	24577.	1.01	9.	1.75	SI
395.	395.	3.	1.	-7006.	3948.	28335.	14044.	1.01	9.	1.	SI
395.	395.	3.	1.	997.	3948.	28335.	14044.	1.01	9.	1.	SI
> 395.	0.	3.	1.	-2805.	3948.	28335.	14044.	1.01	9.	1.	SI
395.	0.	3.	1.	4259.	3948.	28335.	14044.	1.01	9.	1.	SI
436.	41.	3.	1.	-2855.	4455.	28335.	14044.	1.01	9.	1.	SI
480.	85.	3.	1.	-2989.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	475.	3.	1.	-4138.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	475.	3.	1.	2804.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
> 0.	0.	3.	1.	-257627.	-.46	7.1978	8	4.02	10.22	.0583	32.64	.19	SI
15.	15.	3.	1.	-230271.	-.41	7.1768	7	4.02	10.22	.0505	32.64	.165	SI
31.	31.	3.	1.	-171673.	-.31	1.1318	6	4.02	10.22	.0377	32.64	.123	SI
192.	192.	3.	1.	223481.	-.40	5.1716	5	4.02	10.22	.049	32.64	.16	SI
395.	395.	3.	1.	-178780.	-.22	8.701	7	8.04	9.43	.02	21.47	.043	SI
> 395.	0.	3.	3.	-57260.	-.7	3.224	7	8.04	9.43	.0064	21.47	.014	SI
615.	220.	3.	1.	49800.	-.9	3.382	5	4.02	10.22	.0109	32.64	.036	SI
870.	475.	3.	1.	-65672.	-.11	9.504	4	4.02	10.22	.0144	32.64	.047	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
> 0.	0.	3.	1.	-207815.	-.37	7.1596	2	4.02	10.22	.0456	32.64	.149	SI
15.	15.	3.	1.	-185196.	-.33	6.1422	5	4.02	10.22	.0406	32.64	.133	SI
31.	31.	3.	1.	-136746.	-.24	8.1050	3	4.02	10.22	.03	32.64	.098	SI
192.	192.	3.	1.	187558.	-.34	1.1440	6	4.02	10.22	.0412	32.64	.134	SI
395.	395.	3.	3.	-157578.	-.20	1.618	5	8.04	9.43	.0177	21.47	.038	SI
> 395.	0.	3.	3.	-60560.	-.7	7.237	7	8.04	9.43	.0068	21.47	.015	SI
615.	220.	3.	1.	49382.	-.9	3.379	3	4.02	10.22	.0108	32.64	.035	SI
870.	475.	3.	1.	-57722.	-.10	5.443	4	4.02	10.22	.0127	32.64	.041	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
> 0.	0.	3.	1.	-192723.	-.34	9.1480	3	4.02	10.22	.0423	32.64	.138	SI
15.	15.	3.	1.	-171843.	-.31	2.1319	9	4.02	10.22	.0377	32.64	.123	SI
31.	31.	3.	1.	-127117.	-.23	1.976	4	4.02	10.22	.0279	32.64	.091	SI
192.	192.	3.	1.	172546.	-.31	3.1325	3	4.02	10.22	.0379	32.64	.124	SI
395.	395.	3.	3.	-146267.	-.18	7.574	1	8.04	9.43	.0164	21.47	.035	SI
> 395.	0.	3.	3.	-58096.	-.7	4.228	8	8.04	9.43	.0065	21.47	.014	SI
615.	220.	3.	1.	49693.	-.9	3.381	7	4.02	10.22	.0109	32.64	.036	SI
870.	475.	3.	1.	-58061.	-.10	5.446	8	4.02	10.22	.0127	32.64	.042	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16

2|12.06|1.005| 8.04| .67 |2d16 +2d16 | 4.02| .335|2d16 |  
 3|16.08|1.34 | 8.04| .67 |2d16 +2d16 | 8.04| .67 |2d16 +2d16 |

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 31 - Travata Tt002 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A293	3	3	3	0	370.	355.	9.25	1.3	5.	112.985
2	A294	3	3	3	0	155.	155.	3.875	1.5	5.	130.367
3	A295	3	3	3	0	355.	330.	8.875	1.3	2.669	60.31

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	2.
7.	SLU con SISMAX PRINC16	2.

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-87000.	-.012	.032	-546809.	-.35	2.278	3.	.133	6.285	SI
192.	192.	3.	41156.	-.006	.015	546809.	-.35	2.278	3.	.133	13.29	SI
310.	310.	3.	28417.	-.004	.01	547697.	-.35	2.388	3.	.128	19.27	SI
332.	332.	3.	-4211.	0.	.001	-1039699.	-.35	1.395	3.	.201	246.9	SI
370.	370.	3.	-15994.	-.002	.003	-1051660.	-.35	1.781	3.	.164	65.75	SI
370.	370.	3.	12948.	-.001	.002	1051660.	-.35	1.781	3.	.164	81.22	SI
> 370.	0.	3.	-344.	0.	0.	-1051660.	-.35	1.781	3.	.164	3055.	SI
370.	0.	3.	90.	0.	0.	1051660.	-.35	1.781	3.	.164	11674	SI
392.	22.	3.	-306.	0.	0.	-1039699.	-.35	1.395	3.	.201	3400.	SI
392.	22.	3.	95.	0.	0.	547697.	-.35	2.388	3.	.128	5783.	SI
440.	70.	3.	-23.	0.	0.	-546809.	-.35	2.278	3.	.133	23519	SI
482.	112.	3.	-216.	0.	0.	-546809.	-.35	2.278	3.	.133	2526.	SI
490.	120.	3.	129.	0.	0.	547697.	-.35	2.388	3.	.128	4255.	SI
525.	155.	3.	-400.	0.	0.	-1051660.	-.35	1.781	3.	.164	2628.	SI
525.	155.	3.	121.	0.	0.	1051660.	-.35	1.781	3.	.164	8711.	SI
> 525.	0.	3.	-148431.	-.015	.028	-1051660.	-.35	1.781	3.	.164	7.085	SI
525.	0.	3.	20497.	-.002	.004	1051660.	-.35	1.781	3.	.164	51.31	SI
541.	16.	3.	-148431.	-.017	.028	-1039699.	-.35	1.395	3.	.201	7.005	SI
541.	16.	3.	20660.	-.003	.008	547697.	-.35	2.388	3.	.128	26.51	SI
864.	339.	3.	204880.	-.029	.076	546809.	-.35	2.278	3.	.133	2.669	SI
880.	355.	3.	-127816.	-.018	.047	-546809.	-.35	2.278	3.	.133	4.278	SI
880.	355.	3.	204880.	-.029	.076	546809.	-.35	2.278	3.	.133	2.669	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	879.	3948.	28335.	14044.	1.01	9.	1.



75.	75.	3.	635.	4455.	28335.	14044.	1.01	9.	1.	SI
370.	370.	3.	-588.	3948.	24411.	24577.	1.01	9.	1.75	SI
> 370.	0.	3.	8.	3948.	20119.	20223.	1.01	15.	2.4	SI
434.	64.	3.	-2.	4455.	20119.	20223.	1.01	15.	2.4	SI
525.	155.	3.	-8.	3948.	20119.	20223.	1.01	15.	2.4	SI
> 525.	0.	3.	1538.	3948.	24411.	24577.	1.01	9.	1.75	SI
585.	60.	3.	-124.	4455.	24411.	24577.	1.01	9.	1.75	SI
880.	355.	3.	-877.	3948.	28335.	14044.	1.01	9.	1.	SI
880.	355.	3.	548.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-50939.	-9.2	391.3	4.02	10.22	.0112	32.64	.036	SI
16.	16.	3.	1.	-45194.	-8.2	347.1	4.02	10.22	.0099	32.64	.032	SI
31.	31.	3.	1.	-35133.	-6.4	269.8	4.02	10.22	.0077	32.64	.025	SI
232.	232.	3.	1.	30162.	-5.5	231.7	4.02	10.22	.0066	32.64	.022	SI
370.	370.	3.	3.	-3686.	-.5	14.5	8.04	9.43	.0004	21.47	.001	SI
> 370.	0.	3.	3.	-132.	0.	.5	8.04	9.43	0.	21.47	0.	SI
448.	78.	3.	1.	46.	0.	.4	4.02	10.22	0.	32.64	0.	SI
525.	155.	3.	3.	-169.	0.	.7	8.04	9.43	0.	21.47	0.	SI
> 525.	0.	3.	3.	-78500.	-10.	308.1	8.04	9.43	.0088	21.47	.019	SI
839.	314.	3.	1.	42511.	-9.5	400.5	4.02	10.22	.0114	32.64	.037	SI
880.	355.	3.	1.	49043.	-8.9	376.7	4.02	10.22	.0108	32.64	.035	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-48136.	-8.7	369.7	4.02	10.22	.0106	32.64	.034	SI
16.	16.	3.	1.	-42476.	-7.7	326.3	4.02	10.22	.0093	32.64	.03	SI
31.	31.	3.	1.	-32564.	-5.9	250.1	4.02	10.22	.0071	32.64	.023	SI
232.	232.	3.	1.	30313.	-5.5	232.8	4.02	10.22	.0067	32.64	.022	SI
370.	370.	3.	3.	-3400.	-.4	13.3	8.04	9.43	.0004	21.47	.001	SI
> 370.	0.	3.	3.	-136.	0.	.5	8.04	9.43	0.	21.47	0.	SI
448.	78.	3.	1.	44.	0.	.3	4.02	10.22	0.	32.64	0.	SI
525.	155.	3.	3.	-154.	0.	.6	8.04	9.43	0.	21.47	0.	SI
> 525.	0.	3.	3.	-68158.	-8.7	267.5	8.04	9.43	.0076	21.47	.016	SI
817.	292.	3.	1.	42511.	-7.7	326.5	4.02	10.22	.0093	32.64	.03	SI
880.	355.	3.	1.	37664.	-6.8	289.3	4.02	10.22	.0083	32.64	.027	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	-47557.	-8.6	365.3	4.02	10.22	.0104	32.64	.034	SI
16.	16.	3.	1.	-41920.	-7.6	322.	4.02	10.22	.0092	32.64	.03	SI
31.	31.	3.	1.	-32048.	-5.8	246.2	4.02	10.22	.007	32.64	.023	SI
232.	232.	3.	1.	30177.	-5.5	231.8	4.02	10.22	.0066	32.64	.022	SI
370.	370.	3.	3.	-3535.	-.5	13.9	8.04	9.43	.0004	21.47	.001	SI
> 370.	0.	3.	3.	-137.	0.	.5	8.04	9.43	0.	21.47	0.	SI
448.	78.	3.	1.	44.	0.	.3	4.02	10.22	0.	32.64	0.	SI
525.	155.	3.	3.	-151.	0.	.6	8.04	9.43	0.	21.47	0.	SI
> 525.	0.	3.	3.	-64049.	-8.2	251.4	8.04	9.43	.0072	21.47	.015	SI
795.	270.	3.	1.	39675.	-7.2	304.7	4.02	10.22	.0087	32.64	.028	SI
880.	355.	3.	1.	33476.	-6.1	257.1	4.02	10.22	.0073	32.64	.024	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 32 - Travata Tt003 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
CLS : σ (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Ac1s=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A349	3	3	3	0	435.	405.	10.875	1.3	1.396	28.425
2	A350	3	3	3	0	435.	405.	10.875	1.5	2.08	51.011
3	A351	3	3	3	0	510.	480.	12.75	1.5	1.137	27.896
4	A352	3	3	3	0	360.	330.	9.	1.5	2.147	55.981
5	A353	3	3	3	0	435.	405.	10.875	1.5	1.279	30.047
6	A354	3	3	3	0	435.	405.	10.875	1.5	1.129	27.692
7	A355	3	3	3	0	435.	405.	10.875	1.5	1.292	31.676
8	A356	3	3	3	0	435.	405.	10.875	1.5	1.755	45.768
9	A357	3	3	3	0	435.	405.	10.875	1.5	1.748	45.568
10	A359	3	3	3	0	307.	277.	7.68	1.3	5.	112.985

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	
7.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-566341.	-.068	.141	-799812.	-.35	1.963	3.	.151	1.412	SI
0.	0.	3. 1.	71625.	-.008	.018	799812.	-.35	1.963	3.	.151	11.17	SI
197.	197.	3. 1.	572905.	-.069	.143	799812.	-.35	1.963	3.	.151	1.396	SI
319.	319.	3. 2.	-33737.	-.003	.005	-1289260.	-.35	1.319	3.	.21	38.22	SI
319.	319.	3. 2.	413402.	-.043	.103	802696.	-.35	2.151	3.	.14	1.942	SI
419.	419.	3. 3.	80815.	-.007	.01	1548068.	-.35	1.437	3.	.196	19.16	SI
435.	435.	3. 3.	-609204.	-.052	.092	-1306596.	-.35	1.775	3.	.165	2.145	SI
435.	435.	3. 3.	16521.	-.001	.002	1548068.	-.35	1.437	3.	.196	93.7	SI
> 435.	0.	3. 3.	-397318.	-.033	.06	-1306596.	-.35	1.775	3.	.165	3.289	SI
435.	0.	3. 3.	93072.	-.008	.012	1548068.	-.35	1.437	3.	.196	16.63	SI
632.	197.	3. 4.	383087.	-.049	.096	796796.	-.35	1.795	3.	.163	2.08	SI
714.	279.	3. 4.	-15829.	-.002	.006	-547369.	-.35	2.346	3.	.13	34.58	SI
839.	404.	3. 5.	-566803.	-.062	.107	-1047321.	-.35	1.62	3.	.178	1.848	SI
854.	419.	3. 6.	80241.	-.007	.01	1539128.	-.35	1.268	3.	.216	19.18	SI
870.	435.	3. 6.	-618155.	-.056	.116	-1056361.	-.35	1.987	3.	.15	1.709	SI
870.	435.	3. 6.	35021.	-.003	.004	1539128.	-.35	1.268	3.	.216	43.95	SI
> 870.	0.	3. 6.	-845959.	-.078	.159	-1056361.	-.35	1.987	3.	.15	1.249	SI
901.	31.	3. 5.	-774230.	-.087	.147	-1047321.	-.35	1.62	3.	.178	1.353	SI
923.	53.	3. 5.	88735.	-.01	.022	801560.	-.35	2.074	3.	.144	9.033	SI
1125.	255.	3. 4.	700514.	-.093	.176	796796.	-.35	1.795	3.	.163	1.137	SI
1260.	390.	3. 5.	-66210.	-.007	.012	-1047321.	-.35	1.62	3.	.178	15.82	SI
1380.	510.	3. 7.	-823679.	-.081	.155	-1054435.	-.35	1.899	3.	.156	1.28	SI
>1380.	0.	3. 7.	-462848.	-.044	.087	-1054435.	-.35	1.899	3.	.156	2.278	SI
1380.	0.	3. 7.	152941.	-.014	.023	1297700.	-.35	1.512	3.	.188	8.485	SI
1411.	31.	3. 8.	-426716.	-.05	.081	-1039699.	-.35	1.395	3.	.201	2.437	SI
1411.	31.	3. 8.	201144.	-.026	.074	547697.	-.35	2.388	3.	.128	2.723	SI
1581.	201.	3. 9.	-6679.	-.001	.002	-546809.	-.35	2.278	3.	.133	81.87	SI
1581.	201.	3. 9.	254679.	-.037	.094	546809.	-.35	2.278	3.	.133	2.147	SI
1724.	344.	3. 10	191668.	-.017	.024	1539128.	-.35	1.268	3.	.216	8.03	SI
1740.	360.	3. 10	-365842.	-.033	.069	-1056361.	-.35	1.987	3.	.15	2.887	SI
1740.	360.	3. 10	166384.	-.015	.021	1539128.	-.35	1.268	3.	.216	9.25	SI
>1740.	0.	3. 10	-889687.	-.083	.167	-1056361.	-.35	1.987	3.	.15	1.187	SI
1755.	15.	3. 10	7597.	-.001	.001	1539128.	-.35	1.268	3.	.216	202.6	SI
1856.	116.	3. 11	-3906.	0.	.001	-1051660.	-.35	1.781	3.	.164	269.2	SI
1937.	197.	3. 12	812922.	-.1	.156	1039699.	-.35	1.395	3.	.201	1.279	SI
2175.	435.	3. 13	-995601.	-.091	.205	-1057775.	-.35	2.055	3.	.146	1.062	SI
>2175.	0.	3. 13	-921067.	-.081	.173	-1057775.	-.35	2.055	3.	.146	1.148	SI
2190.	15.	3. 13	15740.	-.001	.002	1775074.	-.35	1.052	3.	.25	112.8	SI
2206.	31.	3. 5.	-832543.	-.094	.158	-1047321.	-.35	1.62	3.	.178	1.258	SI
2206.	31.	3. 5.	108088.	-.012	.027	801560.	-.35	2.074	3.	.144	7.416	SI
2413.	238.	3. 4.	705686.	-.094	.177	796796.	-.35	1.795	3.	.163	1.129	SI
2610.	435.	3. 6.	-841839.	-.078	.158	-1056361.	-.35	1.987	3.	.15	1.255	SI
>2610.	0.	3. 6.	-820320.	-.076	.154	-1056361.	-.35	1.987	3.	.15	1.288	SI
2625.	15.	3. 6.	6840.	-.001	.001	1539128.	-.35	1.268	3.	.216	225.	SI
2641.	31.	3. 5.	-741920.	-.083	.141	-1047321.	-.35	1.62	3.	.178	1.412	SI
2641.	31.	3. 5.	86582.	-.009	.021	801560.	-.35	2.074	3.	.144	9.258	SI
2848.	238.	3. 4.	616921.	-.081	.155	796796.	-.35	1.795	3.	.163	1.292	SI
3045.	435.	3. 7.	-658342.	-.064	.124	-1054435.	-.35	1.899	3.	.156	1.602	SI

>3045.	0.	3.	7.	-469122.	-.045	.088	-1054435.	-.35	1.899	3.	.156	2.248	SI
3045.	0.	3.	7.	17544.	-.002	.003	1297700.	-.35	1.512	3.	.188	73.97	SI
3076.	31.	3.	8.	-428635.	-.05	.081	-1039699.	-.35	1.395	3.	.201	2.426	SI
3076.	31.	3.	8.	92009.	-.012	.034	547697.	-.35	2.388	3.	.128	5.953	SI
3283.	238.	3.	9.	311511.	-.046	.115	546809.	-.35	2.278	3.	.133	1.755	SI
3480.	435.	3.	14.	-353785.	-.036	.067	-1051660.	-.35	1.781	3.	.164	2.973	SI
3480.	435.	3.	14.	45341.	-.004	.009	1051660.	-.35	1.781	3.	.164	23.19	SI
>3480.	0.	3.	14.	-406300.	-.041	.076	-1051660.	-.35	1.781	3.	.164	2.588	SI
3495.	15.	3.	14.	23338.	-.002	.004	1051660.	-.35	1.781	3.	.164	45.06	SI
3511.	31.	3.	8.	-368466.	-.042	.07	-1039699.	-.35	1.395	3.	.201	2.822	SI
3511.	31.	3.	8.	62403.	-.008	.023	547697.	-.35	2.388	3.	.128	8.777	SI
3718.	238.	3.	9.	312877.	-.046	.116	546809.	-.35	2.278	3.	.133	1.748	SI
3799.	319.	3.	8.	-17962.	-.002	.003	-1039699.	-.35	1.395	3.	.201	57.88	SI
3915.	435.	3.	14.	-318298.	-.032	.06	-1051660.	-.35	1.781	3.	.164	3.304	SI
3915.	435.	3.	14.	28288.	-.003	.005	1051660.	-.35	1.781	3.	.164	37.18	SI
>3915.	0.	3.	14.	-183403.	-.018	.034	-1051660.	-.35	1.781	3.	.164	5.734	SI
3915.	0.	3.	14.	24019.	-.002	.005	1051660.	-.35	1.781	3.	.164	43.79	SI
3946.	31.	3.	8.	-166999.	-.019	.032	-1039699.	-.35	1.395	3.	.201	6.226	SI
3946.	31.	3.	8.	19390.	-.002	.007	547697.	-.35	2.388	3.	.128	28.25	SI
3968.	53.	3.	8.	11810.	-.001	.004	547697.	-.35	2.388	3.	.128	46.38	SI
4069.	154.	3.	9.	100248.	-.014	.037	546809.	-.35	2.278	3.	.133	5.455	SI
4222.	307.	3.	9.	-82020.	-.012	.03	-546809.	-.35	2.278	3.	.133	6.667	SI
4222.	307.	3.	9.	27746.	-.004	.01	546809.	-.35	2.278	3.	.133	19.71	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-526.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	9879.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-1844.	5099.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	-1844.	5099.	24411.	24577.	1.01	9.	1.75	SI
435.	435.	3.	-9424.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	435.	3.	323.	3948.	28335.	14044.	1.01	9.	1.	SI
> 435.	0.	3.	-2383.	3948.	28335.	14044.	1.01	9.	1.	SI
435.	0.	3.	10458.	3948.	28335.	14044.	1.01	9.	1.	SI
488.	53.	3.	-3111.	5099.	28335.	14044.	1.01	9.	1.	SI
510.	75.	3.	-3531.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	435.	3.	-10133.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	435.	3.	2134.	3948.	28335.	14044.	1.01	9.	1.	SI
> 870.	0.	3.	9877.	5613.	28335.	14044.	1.01	9.	1.	SI
945.	75.	3.	-1020.	4455.	24411.	24577.	1.01	9.	1.75	SI
1380.	510.	3.	-10160.	5613.	28335.	14044.	1.01	9.	1.	SI
>1380.	0.	3.	-2833.	3948.	28335.	14044.	1.01	9.	1.	SI
1380.	0.	3.	9827.	3948.	28335.	14044.	1.01	9.	1.	SI
1433.	53.	3.	-3550.	4455.	28335.	14044.	1.01	9.	1.	SI
1455.	75.	3.	-3964.	4455.	24411.	24577.	1.01	9.	1.75	SI
1740.	360.	3.	-9050.	3948.	28335.	14044.	1.01	9.	1.	SI
1740.	360.	3.	3045.	3948.	28335.	14044.	1.01	9.	1.	SI
>1740.	0.	3.	13486.	3948.	28335.	15799.	1.01	8.	1.	SI
1815.	75.	3.	-1214.	4455.	25469.	25279.	1.01	8.	1.6	SI
2175.	435.	3.	-13444.	5613.	28335.	15799.	1.01	8.	1.	SI
>2175.	0.	3.	12547.	3948.	28335.	15799.	1.01	8.	1.	SI
2250.	75.	3.	-1405.	4455.	25469.	25279.	1.01	8.	1.6	SI
2331.	156.	3.	-4040.	5099.	19541.	13166.	1.01	24.	2.5	SI
2610.	435.	3.	-12567.	3948.	28335.	15799.	1.01	8.	1.	SI
>2610.	0.	3.	11920.	3948.	28335.	15799.	1.01	8.	1.	SI
2685.	75.	3.	-1481.	4455.	25469.	25279.	1.01	8.	1.6	SI
2766.	156.	3.	-3934.	5099.	19541.	12639.	1.01	25.	2.5	SI
3045.	435.	3.	-11873.	3948.	28335.	15799.	1.01	8.	1.	SI
>3045.	0.	3.	-2087.	3948.	28335.	14044.	1.01	9.	1.	SI
3045.	0.	3.	8080.	3948.	28335.	14044.	1.01	9.	1.	SI
3098.	53.	3.	-2650.	4455.	28335.	14044.	1.01	9.	1.	SI
3120.	75.	3.	-2975.	4455.	24411.	24577.	1.01	9.	1.75	SI
3480.	435.	3.	-8081.	3948.	28335.	14044.	1.01	9.	1.	SI
3480.	435.	3.	1642.	3948.	28335.	14044.	1.01	9.	1.	SI
>3480.	0.	3.	-1863.	3948.	28335.	14044.	1.01	9.	1.	SI
3480.	0.	3.	8052.	3948.	28335.	14044.	1.01	9.	1.	SI
3533.	53.	3.	-2426.	4455.	28335.	14044.	1.01	9.	1.	SI
3555.	75.	3.	-2751.	4455.	24411.	24577.	1.01	9.	1.75	SI
3915.	435.	3.	-7857.	3948.	28335.	14044.	1.01	9.	1.	SI
3915.	435.	3.	1836.	3948.	28335.	14044.	1.01	9.	1.	SI
>3915.	0.	3.	-4252.	3948.	28335.	14044.	1.01	9.	1.	SI
3915.	0.	3.	6172.	3948.	28335.	14044.	1.01	9.	1.	SI
3968.	53.	3.	-4376.	4455.	28335.	14044.	1.01	9.	1.	SI
3990.	75.	3.	-4448.	4455.	24411.	24577.	1.01	9.	1.75	SI
4222.	307.	3.	-5557.	3948.	28335.	14044.	1.01	9.	1.	SI
4222.	307.	3.	4769.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
15.	15.	3.	1.	-352343.	-52.2	1828.	6.03	9.76	.0631	25.11	.158	SI
31.	31.	3.	1.	-259996.	-38.5	1348.9	6.03	9.76	.0403	25.11	.101	SI
197.	197.	3.	1.	403848.	-59.8	2095.2	6.03	9.76	.0758	25.11	.19	SI

	435.	435.	3.	3.	-430723.	-46.8	1357.9	10.05	9.28	.0497	19.43	.097	SI
>	435.	0.	3.	3.	-274322.	-29.8	864.8	10.05	9.28	.0262	19.43	.051	SI
	632.	197.	3.	4.	269545.	-42.1	1400.8	6.03	9.64	.043	24.94	.107	SI
	870.	435.	3.	6.	-435514.	-50.9	1704.	8.04	9.65	.0626	21.69	.136	SI
>	870.	0.	3.	6.	-595823.	-69.7	2331.2	8.04	9.65	.0925	21.69	.201	SI
	1125.	255.	3.	4.	493313.	-77.	2563.8	6.03	9.64	.0984	24.94	.245	SI
	1380.	510.	3.	7.	-579974.	-70.8	2272.3	8.04	9.54	.0898	21.58	.194	SI
>	1380.	0.	3.	7.	-323356.	-39.5	1266.9	8.04	9.54	.042	21.58	.091	SI
	1581.	201.	3.	9.	177726.	-32.2	1365.1	4.02	10.22	.039	32.64	.127	SI
	1740.	360.	3.	10	-245589.	-28.7	960.9	8.04	9.65	.0275	21.69	.06	SI
>	1740.	0.	3.	10	-624264.	-73.	2442.5	8.04	9.65	.0978	21.69	.212	SI
	1937.	197.	3.	12	570201.	-80.7	2249.7	8.04	9.17	.0894	21.2	.19	SI
	2175.	435.	3.	13	-698277.	-78.5	2729.3	8.04	9.75	.1113	21.79	.242	SI
>	2175.	0.	3.	13	-645857.	-72.6	2524.4	8.04	9.75	.1015	21.79	.221	SI
	2413.	238.	3.	4.	495025.	-77.3	2572.7	6.03	9.64	.0988	24.94	.246	SI
	2610.	435.	3.	6.	-590727.	-69.1	2311.3	8.04	9.65	.0915	21.69	.199	SI
>	2610.	0.	3.	6.	-574802.	-67.2	2249.	8.04	9.65	.0886	21.69	.192	SI
	2848.	238.	3.	4.	432558.	-67.5	2248.	6.03	9.64	.0834	24.94	.208	SI
	3045.	435.	3.	7.	-462812.	-56.5	1813.2	8.04	9.54	.068	21.58	.147	SI
>	3045.	0.	3.	7.	-330382.	-40.3	1294.4	8.04	9.54	.0433	21.58	.093	SI
	3283.	238.	3.	9.	220410.	-40.	1692.9	4.02	10.22	.0484	32.64	.158	SI
	3480.	435.	3.	14	-248906.	-31.8	976.9	8.04	9.43	.0283	21.47	.061	SI
>	3480.	0.	3.	14	-285796.	-36.5	1121.7	8.04	9.43	.0352	21.47	.076	SI
	3718.	238.	3.	9.	220830.	-40.	1696.1	4.02	10.22	.0485	32.64	.158	SI
	3915.	435.	3.	14	-222400.	-28.4	872.9	8.04	9.43	.0249	21.47	.054	SI
>	3915.	0.	3.	14	-84182.	-10.8	330.4	8.04	9.43	.0094	21.47	.02	SI
	4069.	154.	3.	9.	41456.	-7.5	318.4	4.02	10.22	.0091	32.64	.03	SI
	4222.	307.	3.	9.	-37061.	-6.7	284.7	4.02	10.22	.0081	32.64	.027	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
15.	15.	3.	1.	-286801.	-42.5	1487.9	6.03	9.76	.0469	25.11	.118	SI	
31.	31.	3.	1.	-210362.	-31.2	1091.4	6.03	9.76	.0312	25.11	.078	SI	
197.	197.	3.	1.	336647.	-49.9	1746.5	6.03	9.76	.0592	25.11	.149	SI	
435.	435.	3.	3.	-364670.	-39.6	1149.6	10.05	9.28	.0398	19.43	.077	SI	
>	435.	0.	3.	3.	-224623.	-24.4	708.1	10.05	9.28	.0202	19.43	.039	SI
632.	197.	3.	4.	224130.	-35.	1164.8	6.03	9.64	.0333	24.94	.083	SI	
870.	435.	3.	6.	-363800.	-42.6	1423.4	8.04	9.65	.0493	21.69	.107	SI	
>	870.	0.	3.	6.	-496634.	-58.1	1943.1	8.04	9.65	.074	21.69	.161	SI
1125.	255.	3.	4.	410806.	-64.1	2135.	6.03	9.64	.078	24.94	.194	SI	
1380.	510.	3.	7.	-481893.	-58.8	1888.	8.04	9.54	.0715	21.58	.154	SI	
>	1380.	0.	3.	7.	-265669.	-32.4	1040.9	8.04	9.54	.0312	21.58	.067	SI
1581.	201.	3.	9.	147823.	-26.8	1135.4	4.02	10.22	.0324	32.64	.106	SI	
1740.	360.	3.	10	-200423.	-23.4	784.2	8.04	9.65	.0224	21.69	.049	SI	
>	1740.	0.	3.	10	-515974.	-60.4	2018.8	8.04	9.65	.0776	21.69	.168	SI
1937.	197.	3.	12	470456.	-66.6	1856.2	8.04	9.17	.0706	21.2	.15	SI	
2175.	435.	3.	13	-575652.	-64.7	2250.	8.04	9.75	.0885	21.79	.193	SI	
>	2175.	0.	3.	13	-533722.	-60.	2086.1	8.04	9.75	.0806	21.79	.176	SI
2413.	238.	3.	4.	408819.	-63.8	2124.7	6.03	9.64	.0775	24.94	.193	SI	
2610.	435.	3.	6.	-486517.	-56.9	1903.5	8.04	9.65	.0721	21.69	.156	SI	
>	2610.	0.	3.	6.	-474702.	-55.5	1857.3	8.04	9.65	.0699	21.69	.152	SI
2848.	238.	3.	4.	356908.	-55.7	1854.9	6.03	9.64	.0646	24.94	.161	SI	
3045.	435.	3.	7.	-382110.	-46.6	1497.	8.04	9.54	.0529	21.58	.114	SI	
>	3045.	0.	3.	7.	-277473.	-33.9	1087.1	8.04	9.54	.0334	21.58	.072	SI
3283.	238.	3.	9.	185771.	-33.7	1426.9	4.02	10.22	.0408	32.64	.133	SI	
3480.	435.	3.	14	-208981.	-26.7	820.2	8.04	9.43	.0234	21.47	.05	SI	
>	3480.	0.	3.	14	-245343.	-31.4	962.9	8.04	9.43	.0277	21.47	.059	SI
3718.	238.	3.	9.	185410.	-33.6	1424.1	4.02	10.22	.0407	32.64	.133	SI	
3915.	435.	3.	14	-182235.	-23.3	715.2	8.04	9.43	.0204	21.47	.044	SI	
>	3915.	0.	3.	14	-82008.	-10.5	321.9	8.04	9.43	.0092	21.47	.02	SI
4069.	154.	3.	9.	44815.	-8.1	344.2	4.02	10.22	.0098	32.64	.032	SI	
4222.	307.	3.	9.	-39250.	-7.1	301.5	4.02	10.22	.0086	32.64	.028	SI	

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve		
15.	15.	3.	1.	-261216.	-38.7	1355.2	6.03	9.76	.0406	25.11	.102	SI	
31.	31.	3.	1.	-191094.	-28.3	991.4	6.03	9.76	.0283	25.11	.071	SI	
197.	197.	3.	1.	309795.	-45.9	1607.2	6.03	9.76	.0526	25.11	.132	SI	
435.	435.	3.	3.	-337898.	-36.7	1065.2	10.05	9.28	.0358	19.43	.07	SI	
>	435.	0.	3.	3.	-204712.	-22.2	645.4	10.05	9.28	.0184	19.43	.036	SI
632.	197.	3.	4.	206116.	-32.2	1071.2	6.03	9.64	.0306	24.94	.076	SI	
870.	435.	3.	6.	-335767.	-39.3	1313.7	8.04	9.65	.044	21.69	.095	SI	
>	870.	0.	3.	6.	-457057.	-53.5	1788.3	8.04	9.65	.0666	21.69	.145	SI
1125.	255.	3.	4.	377835.	-59.	1963.6	6.03	9.64	.0698	24.94	.174	SI	
1380.	510.	3.	7.	-442941.	-54.1	1735.4	8.04	9.54	.0643	21.58	.139	SI	
>	1380.	0.	3.	7.	-243851.	-29.8	955.4	8.04	9.54	.0273	21.58	.059	SI
1581.	201.	3.	9.	136016.	-24.7	1044.7	4.02	10.22	.0298	32.64	.097	SI	
1740.	360.	3.	10	-182466.	-21.3	713.9	8.04	9.65	.0204	21.69	.044	SI	
>	1740.	0.	3.	10	-472815.	-55.3	1849.9	8.04	9.65	.0696	21.69	.151	SI
1937.	197.	3.	12	430618.	-60.9	1699.	8.04	9.17	.0631	21.2	.134	SI	
2175.	435.	3.	13	-526456.	-59.2	2057.7	8.04	9.75	.0793	21.79	.173	SI	
>	2175.	0.	3.	13	-488797.	-54.9	1910.5	8.04	9.75	.0723	21.79	.158	SI
2413.	238.	3.	4.	374343.	-58.4	1945.5	6.03	9.64	.069	24.94	.172	SI	
2610.	435.	3.	6.	-444981.	-52.1	1741.	8.04	9.65	.0644	21.69	.14	SI	
>	2610.	0.	3.	6.	-434682.	-50.8	1700.7	8.04	9.65	.0625	21.69	.135	SI
2848.	238.	3.	4.	326646.	-51.	1697.6	6.03	9.64	.0572	24.94	.143	SI	

3045.	435.	3.	7.	-349906.	-42.7	1370.9	8.04	9.54	.0469	21.58	.101	SI
>3045.	0.	3.	7.	-256362.	-31.3	1004.4	8.04	9.54	.0295	21.58	.064	SI
3283.	238.	3.	9.	171944.	-31.2	1320.7	4.02	10.22	.0377	32.64	.123	SI
3480.	435.	3.	14	-193043.	-24.7	757.6	8.04	9.43	.0216	21.47	.046	SI
>3480.	0.	3.	14	-229139.	-29.3	899.3	8.04	9.43	.0257	21.47	.055	SI
3718.	238.	3.	9.	171325.	-31.1	1315.9	4.02	10.22	.0376	32.64	.123	SI
3915.	435.	3.	14	-166460.	-21.3	653.3	8.04	9.43	.0187	21.47	.04	SI
>3915.	0.	3.	14	-81025.	-10.4	318.	8.04	9.43	.0091	21.47	.02	SI
4069.	154.	3.	9.	46175.	-8.4	354.7	4.02	10.22	.0101	32.64	.033	SI
4222.	307.	3.	9.	-40336.	-7.3	309.8	4.02	10.22	.0089	32.64	.029	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	12.06	1.005	6.03	.503	3d16	6.03	.503	3d16
2	16.08	1.34	10.05	.838	3d16 +2d16	6.03	.503	3d16
3	22.12	1.843	10.05	.838	3d16 +2d16	12.06	1.005	3d16 +3d16
4	10.05	.838	4.02	.335	2d16	6.03	.503	3d16
5	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
6	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	3d16 +3d16
7	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	3d16 +2d16
8	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
9	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
10	20.11	1.676	8.04	.67	2d16 +2d16	12.06	1.005	2d16 +4d16
11	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	4d16
12	12.06	1.005	4.02	.335	2d16	8.04	.67	4d16
13	22.12	1.843	8.04	.67	2d16 +2d16	14.07	1.173	4d16 +3d16
14	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 33 - Travata Tt004 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogenein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A395	3	3	3	0	355.	305.	8.875	1.3	1.732	39.129
2	A396	3	3	3	0	410.	360.	10.25	1.3	1.424	30.267

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE		
>	0.	0.	3.	1.	-276141.	-.04	.102	-546809.	-.35	2.278	3.	.133	1.98	SI
0.	0.	3.	1.	47219.	-.007	.017	546809.	-.35	2.278	3.	.133	1.58	SI	
144.	144.	3.	1.	315786.	-.046	.117	546809.	-.35	2.278	3.	.133	1.732	SI	
270.	270.	3.	2.	-221810.	-.025	.042	-1039699.	-.35	1.395	3.	.201	4.687	SI	

270.	270.	3.	2.	184993.	-.023	.068	547697.	-.35	2.388	3.	.128	2.961	SI
314.	314.	3.	3.	99937.	-.009	.015	1297700.	-.35	1.512	3.	.188	12.99	SI
339.	339.	3.	3.	34859.	-.003	.005	1297700.	-.35	1.512	3.	.188	37.23	SI
355.	355.	3.	3.	-492166.	-.047	.092	-1054435.	-.35	1.899	3.	.156	2.142	SI
> 355.	0.	3.	3.	-773701.	-.076	.146	-1054435.	-.35	1.899	3.	.156	1.363	SI
396.	41.	3.	4.	-660453.	-.073	.125	-1047321.	-.35	1.62	3.	.178	1.586	SI
440.	85.	3.	4.	95212.	-.01	.024	801560.	-.35	2.074	3.	.144	8.419	SI
572.	218.	3.	5.	-18652.	-.002	.007	-547369.	-.35	2.346	3.	.13	29.35	SI
617.	262.	3.	5.	559567.	-.073	.14	796796.	-.35	1.795	3.	.163	1.424	SI
765.	410.	3.	5.	-471654.	-.066	.174	-547369.	-.35	2.346	3.	.13	1.161	SI
765.	410.	3.	5.	95370.	-.012	.024	796796.	-.35	1.795	3.	.163	8.355	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1865.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	8618.	3948.	28335.	14044.	1.01	9.	1.	SI
60.	60.	3.	-3055.	4455.	28335.	14044.	1.01	9.	1.	SI
102.	102.	3.	-3897.	4455.	24411.	24577.	1.01	9.	1.75	SI
355.	355.	3.	-8621.	3948.	28335.	14044.	1.01	9.	1.	SI
355.	355.	3.	1330.	3948.	28335.	14044.	1.01	9.	1.	SI
> 355.	0.	3.	-479.	5613.	28335.	14044.	1.01	9.	1.	SI
355.	0.	3.	9632.	5613.	28335.	14044.	1.01	9.	1.	SI
440.	85.	3.	-1808.	4455.	24411.	24577.	1.01	9.	1.75	SI
765.	410.	3.	-9406.	3948.	28335.	14044.	1.01	9.	1.	SI
765.	410.	3.	513.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-142012.	-25.7	1090.8	4.02	10.22	.0312	32.64	.102	SI
16.	16.	3.	1.	14021.	-2.5	107.7	4.02	10.22	.0031	32.64	.01	SI
16.	16.	3.	1.	-142012.	-25.7	1090.8	4.02	10.22	.0312	32.64	.102	SI
144.	144.	3.	1.	222077.	-40.3	1705.7	4.02	10.22	.0487	32.64	.159	SI
355.	355.	3.	3.	-346780.	-42.3	1358.6	8.04	9.54	.0463	21.58	.1	SI
> 355.	0.	3.	3.	-544826.	-66.5	2134.5	8.04	9.54	.0833	21.58	.18	SI
617.	262.	3.	5.	393672.	-61.5	2045.9	6.03	9.64	.0737	24.94	.184	SI
765.	410.	3.	5.	-331966.	-57.3	2549.5	4.02	10.33	.0851	32.87	.28	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-118326.	-21.5	908.8	4.02	10.22	.026	32.64	.085	SI
16.	16.	3.	1.	12502.	-2.3	96.	4.02	10.22	.0027	32.64	.009	SI
16.	16.	3.	1.	-118326.	-21.5	908.8	4.02	10.22	.026	32.64	.085	SI
144.	144.	3.	1.	185193.	-33.6	1422.4	4.02	10.22	.0406	32.64	.133	SI
355.	355.	3.	3.	-290085.	-35.4	1136.5	8.04	9.54	.0358	21.58	.077	SI
> 355.	0.	3.	3.	-453698.	-55.4	1777.5	8.04	9.54	.0663	21.58	.143	SI
617.	262.	3.	5.	326885.	-51.	1698.8	6.03	9.64	.0572	24.94	.143	SI
765.	410.	3.	5.	-276274.	-47.7	2121.7	4.02	10.33	.0648	32.87	.213	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
16.	16.	3.	1.	-108828.	-19.7	835.9	4.02	10.22	.0239	32.64	.078	SI
16.	16.	3.	1.	11682.	-2.1	89.7	4.02	10.22	.0026	32.64	.008	SI
16.	16.	3.	1.	-108828.	-19.7	835.9	4.02	10.22	.0239	32.64	.078	SI
144.	144.	3.	1.	169881.	-30.8	1304.8	4.02	10.22	.0373	32.64	.122	SI
355.	355.	3.	3.	-267365.	-32.6	1047.5	8.04	9.54	.0315	21.58	.068	SI
> 355.	0.	3.	3.	-417374.	-51.	1635.2	8.04	9.54	.0595	21.58	.128	SI
617.	262.	3.	5.	300241.	-46.9	1560.4	6.03	9.64	.0506	24.94	.126	SI
765.	410.	3.	5.	-253996.	-43.8	1950.7	4.02	10.33	.0566	32.87	.186	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	18.1	1.508	8.04	.67	2d16 +2d16	10.05	.838	2d16 +3d16
4	14.07	1.173	8.04	.67	2d16 +2d16	6.03	.503	3d16
5	10.05	.838	4.02	.335	2d16	6.03	.503	3d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 34 - Travata Tt005 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.  
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS :  $\sigma$  (rara)=124.5;  $\sigma$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8

ACCIAIO:  $\sigma$  f (rara)=3600.; Coeff.Omogein.= 15

FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A429	3	3	3	0	427.	397.	10.675	1.3	1.793	40.513
2	A426	3	3	3	0	443.	413.	11.075	1.3	1.458	32.937

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara Ventoy	2.	20.	Frequente Ventoy	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-321627.	-.047!	.119!	-546809.	-.35	2.278	3.	.133	1.7	SI
0.	0.	3.	1.	75918.	-.011	.028	546809.	-.35	2.278	3.	.133	7.203	SI
194.	194.	3.	1.	304996.	-.045	.113	546809.	-.35	2.278	3.	.133	1.793	SI
312.	312.	3.	2.	-53546.	-.006	.01	-1039699.	-.35	1.395	3.	.201	19.42	SI
312.	312.	3.	2.	240536.	-.031	.089	547697.	-.35	2.388	3.	.128	2.277	SI
411.	411.	3.	3.	95664.	-.009	.018	1051660.	-.35	1.781	3.	.164	10.99	SI
427.	427.	3.	3.	-347488.	-.035	.065	-1051660.	-.35	1.781	3.	.164	3.026	SI
427.	427.	3.	3.	63416.	-.006	.012	1051660.	-.35	1.781	3.	.164	16.58	SI
> 427.	0.	3.	3.	-404992.	-.041	.076	-1051660.	-.35	1.781	3.	.164	2.597	SI
427.	0.	3.	3.	56316.	-.006	.011	1051660.	-.35	1.781	3.	.164	18.67	SI
458.	31.	3.	2.	-366891.	-.042	.07	-1039699.	-.35	1.395	3.	.201	2.834	SI
458.	31.	3.	2.	132646.	-.017	.049	547697.	-.35	2.388	3.	.128	4.129	SI
544.	117.	3.	2.	-46002.	-.005	.009	-1039699.	-.35	1.395	3.	.201	22.6	SI
669.	242.	3.	1.	375144.	-.055	.139	546809.	-.35	2.278	3.	.133	1.458	SI
870.	443.	3.	1.	-400079.	-.059	.148	-546809.	-.35	2.278	3.	.133	1.367	SI
870.	443.	3.	1.	64553.	-.009	.024	546809.	-.35	2.278	3.	.133	8.471	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve		
> 0.	0.	3.	1.	-1275.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	1.	6335.	3948.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	-2075.	4455.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	1.	2075.	4455.	24411.	24577.	1.01	9.	1.75	SI
427.	427.	3.	1.	-6565.	3948.	28335.	14044.	1.01	9.	1.	SI
427.	427.	3.	1.	645.	3948.	28335.	14044.	1.01	9.	1.	SI
> 427.	0.	3.	1.	-684.	3948.	28335.	14044.	1.01	9.	1.	SI
427.	0.	3.	1.	6935.	3948.	28335.	14044.	1.01	9.	1.	SI
480.	53.	3.	1.	-1225.	4455.	28335.	14044.	1.01	9.	1.	SI
502.	75.	3.	1.	-1537.	4455.	24411.	24577.	1.01	9.	1.75	SI
870.	443.	3.	1.	-6559.	3948.	28335.	14044.	1.01	9.	1.	SI
870.	443.	3.	1.	633.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma$ c	$\sigma$ f	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-222731.	-40.4!	1710.8!	4.02	10.22	.0489	32.64	.16	SI
15.	15.	3.	1.	-199211.	-36.1!	1530.1!	4.02	10.22	.0437	32.64	.143	SI
31.	31.	3.	1.	-148832.	-27.	1143.1	4.02	10.22	.0327	32.64	.107	SI

194.	194.	3.	1.	216402.!	-39.2	1662.1	4.02	10.22	.0475	32.64	.155	SI
427.	427.	3.	3.	-245641.!	-31.4	964.1	8.04	9.43	.0277	21.47	.06	SI
> 427.	0.	3.	3.	-287239.!	-36.7	1127.3	8.04	9.43	.0355	21.47	.076	SI
669.	242.	3.	1.	266218.!	-48.3	2044.8	4.02	10.22	.0615	32.64	.201	SI
870.	443.	3.	1.	-278755.!	-50.5	2141.1	4.02	10.22	.066	32.64	.216	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-185493.	-33.6	1424.7	4.02	10.22	.0407	32.64	.133	SI
15.	15.	3.	1.	-165724.	-30.	1272.9	4.02	10.22	.0364	32.64	.119	SI
31.	31.	3.	1.	-123380.	-22.4	947.7	4.02	10.22	.0271	32.64	.088	SI
194.	194.	3.	1.	182606.!	-33.1	1402.6	4.02	10.22	.0401	32.64	.131	SI
427.	427.	3.	3.	-207235.!	-26.5	813.3	8.04	9.43	.0232	21.47	.05	SI
> 427.	0.	3.	3.	-240455.!	-30.7	943.7	8.04	9.43	.027	21.47	.058	SI
669.	242.	3.	1.	224306.!	-40.7	1722.9	4.02	10.22	.0492	32.64	.161	SI
870.	443.	3.	1.	-232703.	-42.2	1787.3	4.02	10.22	.0511	32.64	.167	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-171393.	-31.1	1316.4	4.02	10.22	.0376	32.64	.123	SI
15.	15.	3.	1.	-153095.	-27.8	1175.9	4.02	10.22	.0336	32.64	.11	SI
31.	31.	3.	1.	-113901.	-20.6	874.9	4.02	10.22	.025	32.64	.082	SI
194.	194.	3.	1.	169110.!	-30.7	1298.9	4.02	10.22	.0371	32.64	.121	SI
427.	427.	3.	3.	-191806.!	-24.5	752.8	8.04	9.43	.0215	21.47	.046	SI
> 427.	0.	3.	3.	-222156.!	-28.4	871.9	8.04	9.43	.0249	21.47	.053	SI
669.	242.	3.	1.	207618.!	-37.6	1594.7	4.02	10.22	.0456	32.64	.149	SI
870.	443.	3.	1.	-215077.	-39.	1652.	4.02	10.22	.0472	32.64	.154	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 35 - Travata Tt006 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σc (rara)=124.5; σc (quasi permanente)= 93.4; fbd(esesrcizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; AclS=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A328	3	3	3	0	400.	350.	10.	1.3	1.296	26.379
2	A366	3	3	3	0	555.	515.	13.875	1.3	5.	106.277

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTYO	2.
6.	SLU con SISMAY PRINC16	16
7.	SLU con SISMAY PRINC16	16

  

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			



VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-673601.	-.082	.168	-799812.	-.35	1.963	3.	.151	1.187	SI
0.	0.	3.	1.	107139.	-.012	.027	799812.	-.35	1.963	3.	.151	7.465	SI
200.	200.	3.	1.	617355.	-.075	.154	799812.	-.35	1.963	3.	.151	1.296	SI
277.	277.	3.	1.	-2691.	0.	.001	-799812.	-.35	1.963	3.	.151	297.3	SI
315.	315.	3.	2.	-150032.	-.015	.023	-1289260.	-.35	1.319	3.	.21	8.593	SI
315.	315.	3.	2.	405735.	-.043	.101	802696.	-.35	2.151	3.	.14	1.978	SI
359.	359.	3.	3.	280859.	-.023	.036	1548068.	-.35	1.437	3.	.196	5.512	SI
400.	400.	3.	3.	-522715.	-.044	.079	-1306596.	-.35	1.775	3.	.165	2.5	SI
400.	400.	3.	3.	130977.	-.011	.017	1548068.	-.35	1.437	3.	.196	11.82	SI
> 400.	0.	3.	3.	-245702.	-.02	.037	-1306596.	-.35	1.775	3.	.165	5.318	SI
400.	0.	3.	3.	68037.	-.006	.009	1548068.	-.35	1.437	3.	.196	22.75	SI
441.	41.	3.	2.	-227703.	-.022	.035	-1289260.	-.35	1.319	3.	.21	5.662	SI
748.	348.	3.	4.	-14499.	-.002	.005	-547369.	-.35	2.346	3.	.13	37.75	SI
836.	436.	3.	4.	97120.	-.012	.024	796796.	-.35	1.795	3.	.163	8.204	SI
955.	555.	3.	4.	-218031.	-.029	.08	-547369.	-.35	2.346	3.	.13	2.511	SI
955.	555.	3.	4.	84203.	-.01	.021	796796.	-.35	1.795	3.	.163	9.463	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	3948.	28335.	14044.	1.01	9.	1.	SI	
0.	0.	3.	11761.	28335.	14044.	1.01	9.	1.	SI	
63.	63.	3.	-2377.	5099.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-3007.	5099.	24411.	24577.	1.01	9.	1.75	SI
400.	400.	3.	-11320.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	400.	3.	295.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	3.	-2736.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	3.	4795.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-2788.	5099.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-2929.	5099.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	3.	-4392.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	3.	3010.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-469710.	-69.6	2436.9	6.03	9.76	.0921	25.11	.231	SI
16.	16.	3.	1.	-433641.	-64.3	2249.7	6.03	9.76	.0832	25.11	.209	SI
41.	41.	3.	1.	-270101.	-40.	1401.3	6.03	9.76	.0428	25.11	.107	SI
200.	200.	3.	1.	433420.	-64.2	2248.6	6.03	9.76	.0831	25.11	.209	SI
400.	400.	3.	3.	-356943.	-38.8	1125.3	10.05	9.28	.0386	19.43	.075	SI
> 400.	0.	3.	3.	-109555.	-11.9	345.4	10.05	9.28	.0099	19.43	.019	SI
704.	304.	3.	4.	74545.	-11.6	387.4	6.03	9.64	.0111	24.94	.028	SI
955.	555.	3.	4.	-82677.	-14.3	634.9	4.02	10.33	.0181	32.87	.06	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-377517.	-55.9	1958.6	6.03	9.76	.0693	25.11	.174	SI
16.	16.	3.	1.	-348005.	-51.6	1805.5	6.03	9.76	.062	25.11	.156	SI
41.	41.	3.	1.	-214199.	-31.7	1111.3	6.03	9.76	.0318	25.11	.08	SI
200.	200.	3.	1.	357552.	-53.	1855.	6.03	9.76	.0644	25.11	.162	SI
400.	400.	3.	3.	-291322.	-31.7	918.4	10.05	9.28	.0288	19.43	.056	SI
> 400.	0.	3.	3.	-98620.	-10.7	310.9	10.05	9.28	.0089	19.43	.017	SI
704.	304.	3.	4.	75433.	-11.8	392.	6.03	9.64	.0112	24.94	.028	SI
955.	555.	3.	4.	-75145.	-13.	577.1	4.02	10.33	.0165	32.87	.054	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-343251.	-50.9	1780.8	6.03	9.76	.0608	25.11	.153	SI
16.	16.	3.	1.	-316292.	-46.9	1640.9	6.03	9.76	.0542	25.11	.136	SI
41.	41.	3.	1.	-194059.	-28.8	1006.8	6.03	9.76	.0288	25.11	.072	SI
200.	200.	3.	1.	327252.	-48.5	1697.8	6.03	9.76	.0569	25.11	.143	SI
400.	400.	3.	3.	-265812.	-28.9	838.	10.05	9.28	.025	19.43	.048	SI
> 400.	0.	3.	3.	-95894.	-10.4	302.3	10.05	9.28	.0086	19.43	.017	SI
704.	304.	3.	4.	74675.	-11.7	388.1	6.03	9.64	.0111	24.94	.028	SI
955.	555.	3.	4.	-72733.	-12.5	558.6	4.02	10.33	.016	32.87	.052	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	12.06	1.005	6.03	.503	3d16	6.03	.503	3d16
2	16.08	1.34	10.05	.838	3d16 +2d16	6.03	.503	3d16
3	22.12	1.843	10.05	.838	3d16 +2d16	12.06	1.005	3d16 +3d16
4	10.05	.838	4.02	.335	2d16	6.03	.503	3d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 36 - Travata Tt007 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]:mm - ferri:mm e cm<sup>2</sup> - sezioni:cm e derivate.  
 Copriferrì (assi) : longitudinale= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS : σ (rara)=124.5; σ (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO: σf (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A329	3	3	3	0	400.	350.	10.	1.3	1.398	31.594
2	A367	3	3	3	0	555.	515.	13.875	1.3	4.658	105.252

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU	1.
2.	SLU VENTOX	2.
3.	SLU VENTOY	2.
6.	SLU con SISMAX PRINC16	16
7.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara Ventox	2.	19.	Frequente Ventox	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-381196.	-.056	.141	-546809.	-.35	2.278	3.	.133	1.434	SI
0.	0.	3.	1.	55467.	-.008	.02	546809.	-.35	2.278	3.	.133	9.858	SI
200.	200.	3.	1.	391093.	-.058	.145	546809.	-.35	2.278	3.	.133	1.398	SI
277.	277.	3.	1.	-3380.	0.	.001	-546809.	-.35	2.278	3.	.133	161.8	SI
315.	315.	3.	2.	-100410.	-.011	.019	-1039699.	-.35	1.395	3.	.201	10.36	SI
315.	315.	3.	2.	251825.	-.032	.093	547697.	-.35	2.388	3.	.128	2.175	SI
359.	359.	3.	3.	167277.	-.017	.031	1051660.	-.35	1.781	3.	.164	6.287	SI
400.	400.	3.	3.	-359599.	-.036	.068	-1051660.	-.35	1.781	3.	.164	2.925	SI
400.	400.	3.	3.	64288.	-.006	.012	1051660.	-.35	1.781	3.	.164	16.36	SI
> 400.	0.	3.	3.	-285473.	-.029	.054	-1051660.	-.35	1.781	3.	.164	3.684	SI
400.	0.	3.	3.	33696.	-.003	.006	1051660.	-.35	1.781	3.	.164	31.21	SI
441.	41.	3.	2.	-265599.	-.03	.05	-1039699.	-.35	1.395	3.	.201	3.915	SI
441.	41.	3.	2.	51798.	-.006	.019	547697.	-.35	2.388	3.	.128	10.57	SI
880.	480.	3.	1.	117397.	-.017	.043	546809.	-.35	2.278	3.	.133	4.658	SI
955.	555.	3.	1.	-184144.	-.026	.068	-546809.	-.35	2.278	3.	.133	2.969	SI
955.	555.	3.	1.	113761.	-.016	.042	546809.	-.35	2.278	3.	.133	4.807	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-1604.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	7719.	3948.	28335.	14044.	1.01	9.	1.	SI
63.	63.	3.	-2268.	4455.	28335.	14044.	1.01	9.	1.	SI
85.	85.	3.	-2656.	4455.	24411.	24577.	1.01	9.	1.75	SI
400.	400.	3.	-8085.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	400.	3.	312.	3948.	28335.	14044.	1.01	9.	1.	SI
> 400.	0.	3.	-1987.	3948.	28335.	14044.	1.01	9.	1.	SI
400.	0.	3.	3899.	3948.	28335.	14044.	1.01	9.	1.	SI
441.	41.	3.	-2039.	4455.	28335.	14044.	1.01	9.	1.	SI
485.	85.	3.	-2180.	4455.	24411.	24577.	1.01	9.	1.75	SI
955.	555.	3.	-3644.	3948.	28335.	14044.	1.01	9.	1.	SI
955.	555.	3.	2114.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-266794.!	-48.4	2049.2	4.02	10.22	.0617	32.64	.201	SI
16.	16.	3. 1.	-245044.!	-44.4	1882.1	4.02	10.22	.0538	32.64	.176	SI
41.	41.	3. 1.	-146426.!	-26.5	1124.7	4.02	10.22	.0321	32.64	.105	SI
200.	200.	3. 1.	275630.!	-50.	2116.9	4.02	10.22	.0649	32.64	.212	SI
400.	400.	3. 3.	-249074.!	-31.8	977.6	8.04	9.43	.0284	21.47	.061	SI
> 400.	0.	3. 3.	-151709.!	-19.4	595.4	8.04	9.43	.017	21.47	.037	SI
748.	348.	3. 1.	74840.!	-13.6	574.8	4.02	10.22	.0164	32.64	.054	SI
955.	555.	3. 1.	-65366.!	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-217139.!	-39.4	1667.8	4.02	10.22	.0477	32.64	.156	SI
16.	16.	3. 1.	-199136.!	-36.1	1529.5	4.02	10.22	.0437	32.64	.143	SI
41.	41.	3. 1.	-117508.!	-21.3	902.6	4.02	10.22	.0258	32.64	.084	SI
200.	200.	3. 1.	229645.!	-41.6	1763.9	4.02	10.22	.0504	32.64	.165	SI
400.	400.	3. 3.	-205115.!	-26.2	805.	8.04	9.43	.023	21.47	.049	SI
> 400.	0.	3. 3.	-132372.!	-16.9	519.5	8.04	9.43	.0148	21.47	.032	SI
704.	304.	3. 1.	75227.!	-13.6	577.8	4.02	10.22	.0165	32.64	.054	SI
955.	555.	3. 1.	-65366.!	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	$\sigma_c$	$\sigma_f$	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-197831.!	-35.9	1519.5	4.02	10.22	.0434	32.64	.142	SI
16.	16.	3. 1.	-181306.!	-32.9	1392.6	4.02	10.22	.0398	32.64	.13	SI
41.	41.	3. 1.	-106383.!	-19.3	817.1	4.02	10.22	.0233	32.64	.076	SI
200.	200.	3. 1.	211396.!	-38.3	1623.7	4.02	10.22	.0464	32.64	.151	SI
400.	400.	3. 3.	-188675.!	-24.1	740.5	8.04	9.43	.0212	21.47	.045	SI
> 400.	0.	3. 3.	-127235.!	-16.3	499.4	8.04	9.43	.0143	21.47	.031	SI
704.	304.	3. 1.	75052.!	-13.6	576.5	4.02	10.22	.0165	32.64	.054	SI
955.	555.	3. 1.	-65366.!	-11.8	502.1	4.02	10.22	.0143	32.64	.047	SI

ARMATURE LONGITUDINALI (%=100\*Af/Acl<sub>s</sub> - Acl<sub>s</sub>=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	8.04	.67	4.02	.335	2d16	4.02	.335	2d16
2	12.06	1.005	8.04	.67	2d16 +2d16	4.02	.335	2d16
3	16.08	1.34	8.04	.67	2d16 +2d16	8.04	.67	2d16 +2d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 37 - Travata Tt008 (trave)  
 Metodo di verifica : stati limite (NTC08).  
 Unità di misura : cm; daN; daN/cm; daN/cm<sup>2</sup>; daN/cm<sup>2</sup>; deform. %.  
 Unità particolari : fessure [wk]; mm - ferri: mm e cm<sup>2</sup> - sezioni: cm e derivate.  
 Copriferri (assi) : longitudinali= 4.3 ; staffe= 3.5

MATERIALI

CLS : Rck =250. ; fck=207.5; fctk= 15.9; fctm= 22.7; Ec= 302005. ;  
 gc =1.5 ; fcd=117.6; fbd= 23.8; fctd= 10.6; Ecu=0.35%  
 ACCIAIO: B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;  
 gs =1.15; fyd=3913. ; ftd(k\*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.  
 CLS :  $\sigma_c$  (rara)=124.5;  $\sigma_c$  (quasi permanente)= 93.4; fbd(esercizio)= 23.8  
 ACCIAIO:  $\sigma_f$  (rara)=3600.; Coeff.Omogein.= 15  
 FESSURE: w<sub>dmax</sub>(fre.)=.4 ; w<sub>dmax</sub>(q.p.)=.3 [4.1.2.2.4.5];  
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: base=30.; alt.=40.; Acl<sub>s</sub>=1200. .

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A269	3	3	3	0	425.	395.	10.625	1.3	2.231	43.992
2	A280	3	3	3	0	490.	460.	12.25	1.3	1.21	23.29

CASI DI CARICO DA MODELLO 3D

Nome	SLU	Descrizione	Sest
1.	SLU		1.
2.	SLU	VENTOX	2.
3.	SLU	VENTOY	2.

6. |SLU con SISMAX PRINC16|  
 7. |SLU con SISMAX PRINC16|

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
15.	Rara	1.	18.	Frequente	1.	21.	Quasi Perm	1.
16.	Rara VentoX	2.	19.	Frequente VentoX	2.			
17.	Rara VentoY	2.	20.	Frequente VentoY	2.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-416592.	-.046	.104	-801560.	-.35	2.074	3.	.144	1.924	SI
0.	0.	3.	1.	140562.	-.015	.026	1047321.	-.35	1.62	3.	.178	7.451	SI
212.	212.	3.	1.	469522.	-.051	.089	1047321.	-.35	1.62	3.	.178	2.231	SI
350.	350.	3.	2.	-282760.	-.024	.031	-1775074.	-.35	1.052	3.	.25	6.278	SI
394.	394.	3.	2.	-594925.	-.052	.066	-1775074.	-.35	1.052	3.	.25	2.984	SI
409.	409.	3.	3.	92705.	-.006	.009	2048923.	-.35	1.339	3.	.207	22.1	SI
425.	425.	3.	3.	-651146.	-.045	.071	-1809809.	-.35	1.61	3.	.179	2.779	SI
425.	425.	3.	3.	41521.	-.003	.004	2048923.	-.35	1.339	3.	.207	49.35	SI
> 425.	0.	3.	3.	-894733.	-.063	.097	-1809809.	-.35	1.61	3.	.179	2.023	SI
425.	0.	3.	3.	37762.	-.003	.004	2048923.	-.35	1.339	3.	.207	54.26	SI
478.	53.	3.	2.	-569325.	-.049	.063	-1775074.	-.35	1.052	3.	.25	3.118	SI
478.	53.	3.	2.	289537.	-.025	.054	1057775.	-.35	2.055	3.	.146	3.653	SI
670.	245.	3.	4.	868931.	-.092	.164	1051660.	-.35	1.781	3.	.164	1.21	SI
915.	490.	3.	4.	-874154.	-.092	.165	-1051660.	-.35	1.781	3.	.164	1.203	SI
915.	490.	3.	4.	98757.	-.01	.019	1051660.	-.35	1.781	3.	.164	10.65	SI

VERIFICHE A TAGLIO

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	3948.	28335.	14044.	1.01	9.	1.	SI
0.	0.	3.	10293.	28335.	14044.	1.01	9.	1.	SI
75.	75.	3.	5099.	24411.	24577.	1.01	9.	1.75	SI
167.	167.	3.	5613.	19541.	11285.	1.01	28.	2.5	SI
425.	425.	3.	3948.	28335.	14044.	1.01	9.	1.	SI
425.	425.	3.	3948.	28335.	14044.	1.01	9.	1.	SI
> 425.	0.	3.	3948.	28335.	14044.	1.01	9.	1.	SI
425.	0.	3.	12990.	28335.	14044.	1.01	9.	1.	SI
478.	53.	3.	5613.	28335.	14044.	1.01	9.	1.	SI
500.	75.	3.	5613.	24411.	24577.	1.01	9.	1.75	SI
915.	490.	3.	3948.	28335.	14044.	1.01	9.	1.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-287123.	-40.6	1487.8	6.03	9.88	.0466	25.27	.118	SI
15.	15.	3.	1.	-253927.	-35.9	1315.8	6.03	9.88	.0385	25.27	.097	SI
31.	31.	3.	1.	-182821.	-25.8	947.3	6.03	9.88	.0271	25.27	.068	SI
212.	212.	3.	1.	331431.	-44.5	1303.8	8.04	9.3	.0441	21.34	.094	SI
425.	425.	3.	3.	-459552.	-41.6	1042.7	14.07	8.88	.0385	17.05	.066	SI
> 425.	0.	3.	3.	-628020.	-56.8	1425.	14.07	8.88	.0567	17.05	.097	SI
670.	245.	3.	4.	609580.	-77.9	2392.4	8.04	9.43	.0957	21.47	.206	SI
915.	490.	3.	4.	-610780.	-78.1	2397.2	8.04	9.43	.096	21.47	.206	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-242769.	-34.3	1258.	6.03	9.88	.0359	25.27	.091	SI
15.	15.	3.	1.	-188876.	-26.7	978.7	6.03	9.88	.028	25.27	.071	SI
31.	31.	3.	1.	-131156.	-18.5	679.6	6.03	9.88	.0194	25.27	.049	SI
212.	212.	3.	1.	279609.	-37.5	1099.9	8.04	9.3	.0344	21.34	.073	SI
425.	425.	3.	3.	-388128.	-35.1	880.7	14.07	8.88	.0308	17.05	.052	SI
> 425.	0.	3.	3.	-511042.	-46.2	1159.6	14.07	8.88	.044	17.05	.075	SI
670.	245.	3.	4.	504093.	-64.4	1978.4	8.04	9.43	.076	21.47	.163	SI
915.	490.	3.	4.	-484086.	-61.9	1899.9	8.04	9.43	.0723	21.47	.155	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-223943.	-31.6	1160.4	6.03	9.88	.0332	25.27	.084	SI
15.	15.	3.	1.	-174342.	-24.6	903.4	6.03	9.88	.0258	25.27	.065	SI
31.	31.	3.	1.	-121220.	-17.1	628.1	6.03	9.88	.0179	25.27	.045	SI
212.	212.	3.	1.	257624.	-34.6	1013.4	8.04	9.3	.0303	21.34	.065	SI
425.	425.	3.	3.	-355663.	-32.2	807.	14.07	8.88	.0273	17.05	.046	SI
> 425.	0.	3.	3.	-464660.	-42.	1054.3	14.07	8.88	.039	17.05	.067	SI
670.	245.	3.	4.	461744.	-59.	1812.2	8.04	9.43	.0681	21.47	.146	SI
915.	490.	3.	4.	-439287.	-56.1	1724.1	8.04	9.43	.0639	21.47	.137	SI

ARMATURE LONGITUDINALI (%=100\*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	14.07	1.173	6.03	.503	3d16	8.04	.67	4d16
2	22.12	1.843	14.07	1.173	3d16 +4d16	8.04	.67	4d16
3	30.16	2.513	14.07	1.173	3d16 +4d16	16.08	1.34	4d16 +4d16
4	16.08	1.34	8.04	.67	4d16	8.04	.67	4d16

## DIMENSIONAMENTO E VERIFICA GUSCI

MACROGUSCIO asce1

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	-	forze	: [daN]
momenti	: [daNcm/cm]	-	tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	-	angoli	: [gradi]
armature	: [cm2]			

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	207.5	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	3	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
83	25	3.39	3.39	0.	101.	0.00	0.96	8.06	8.06	0.	288.	0.00	0.85
84	25	3.39	3.39	15.	184.	0.00	1.30	8.06	8.06	0.	267.	0.00	0.79
230	25	3.39	3.39	0.	141.	0.00	1.27	8.06	8.06	0.	418.	0.00	1.23
231	25	3.39	3.39	199.	119.	0.00	1.16	8.06	8.06	0.	164.	0.00	0.48
319	25	3.39	3.39	881.	161.	0.00	1.78	8.06	8.06	661.	113.	0.00	0.53
321	25	3.39	7.46	0.	292.	0.00	2.05	8.06	8.06	0.	237.	0.00	0.70
333	25	3.39	3.39	769.	129.	0.00	1.46	8.06	8.06	345.	148.	0.00	0.54
335	25	3.39	3.39	0.	114.	0.00	0.80	8.06	8.06	0.	252.	0.00	0.74
336	25	3.39	3.39	504.	197.	0.00	1.75	8.06	8.06	0.	203.	0.00	0.60
348	25	3.39	3.39	442.	97.	0.00	1.00	8.06	8.06	0.	260.	0.00	0.77
352	25	3.39	3.39	0.	133.	0.00	0.93	8.06	8.06	302.	212.	0.00	0.72
353	25	3.39	3.39	304.	147.	0.00	1.25	8.06	8.06	156.	162.	0.00	0.52
356	25	3.39	3.39	0.	120.	0.00	0.84	8.06	8.06	467.	306.	0.00	1.04
361	25	3.39	3.39	152.	185.	0.00	1.41	8.06	8.06	0.	164.	0.00	0.49
362	25	3.39	3.39	82.	116.	0.00	0.87	8.06	8.06	0.	163.	0.00	0.48
374	25	3.39	3.39	0.	117.	0.00	0.82	8.06	8.06	0.	278.	0.00	0.82
378	25	3.39	3.39	15.	64.	0.00	0.46	8.06	8.06	0.	170.	0.00	0.50
384	25	3.39	3.39	5.	66.	0.00	0.47	8.06	8.06	0.	248.	0.00	0.73
397	25	3.39	3.39	176.	179.	0.00	1.39	8.06	8.06	34.	236.	0.00	0.71
399	25	3.39	3.39	91.	162.	0.00	1.20	8.06	8.06	9.	110.	0.00	0.33
411	25	3.39	3.39	66.	183.	0.00	1.33	8.06	8.06	0.	145.	0.00	0.43
413	25	3.39	3.39	142.	172.	0.00	1.31	8.06	8.06	65.	207.	0.00	0.63
414	25	3.39	3.39	150.	223.	0.00	1.67	8.06	8.06	0.	45.	0.00	0.13
424	25	3.39	3.39	32.	83.	0.00	0.61	8.06	8.06	0.	194.	0.00	0.57
428	25	3.39	3.39	73.	135.	0.00	1.00	8.06	8.06	0.	150.	0.00	0.44
429	25	3.39	3.39	200.	167.	0.00	1.32	8.06	8.06	0.	84.	0.00	0.25
432	25	3.39	3.39	0.	86.	0.00	0.61	8.06	8.06	72.	96.	0.00	0.30
437	25	3.39	3.39	25.	143.	0.00	1.02	8.06	8.06	15.	11.	0.00	0.04
438	25	3.39	3.39	170.	190.	0.00	1.46	8.06	8.06	39.	30.	0.00	0.10
449	25	3.39	3.39	150.	149.	0.00	1.16	8.06	8.06	100.	132.	0.00	0.42
453	25	3.39	3.39	194.	151.	0.00	1.21	8.06	8.06	77.	84.	0.00	0.27
459	25	3.39	3.39	94.	89.	0.00	0.69	8.06	8.06	92.	62.	0.00	0.21
469	25	3.39	3.39	125.	103.	0.00	0.81	8.06	8.06	61.	92.	0.00	0.29
470	25	3.39	3.39	108.	98.	0.00	0.85	8.06	8.06	50.	48.	0.01	0.16
477	25	3.39	3.39	454.	94.	0.00	0.98	8.06	8.06	352.	70.	0.02	0.31
478	25	3.39	3.39	191.	103.	0.00	0.92	8.06	8.06	374.	36.	0.04	0.22
485	25	3.39	3.39	236.	68.	0.00	0.64	8.06	8.06	596.	19.	0.07	0.24
486	25	3.39	3.39	119.	15.	0.00	0.59	8.06	8.06	623.	15.	0.08	0.23

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
83	25	3.39	3.39	215.	101.	0.00	1.12	8.06	8.06	502.	288.	0.00	1.00
84	25	3.39	3.39	162.	184.	0.00	1.41	8.06	8.06	523.	93.	0.00	0.95
230	25	3.39	3.39	435.	141.	0.00	1.57	8.06	8.06	249.	418.	0.00	1.31
231	25	3.39	3.39	0.	119.	0.00	0.83	8.06	8.06	441.	164.	0.00	0.62

319	25	3.39	3.39	0.	161.	0.00	1.13	8.06	8.06	0.	113.	0.00	0.33
321	25	7.46	3.39	237.	292.	0.00	1.01	8.06	8.06	365.	237.	0.00	0.81
333	25	3.39	3.39	505.	129.	0.00	1.27	8.06	8.06	422.	148.	0.00	0.56
335	25	3.39	3.39	507.	114.	0.00	1.17	8.06	8.06	752.	252.	0.00	0.97
336	25	3.39	3.39	0.	197.	0.00	1.38	8.06	8.06	513.	203.	0.00	0.75
348	25	3.39	3.39	353.	97.	0.00	0.93	8.06	8.06	1474.	260.	0.00	1.22
352	25	3.39	3.39	195.	133.	0.00	1.08	8.06	8.06	0.	212.	0.00	0.62
353	25	3.39	3.39	0.	147.	0.00	1.03	8.06	8.06	104.	162.	0.00	0.51
356	25	3.39	3.39	38.	120.	0.00	0.87	8.06	8.06	0.	306.	0.00	0.90
361	25	3.39	3.39	188.	185.	0.00	1.44	8.06	8.06	216.	164.	0.00	0.55
362	25	3.39	3.39	0.	116.	0.00	0.81	8.06	8.06	273.	163.	0.00	0.56
374	25	3.39	3.39	66.	117.	0.00	0.87	8.06	8.06	344.	278.	0.00	0.92
378	25	3.39	3.39	109.	64.	0.00	0.53	8.06	8.06	351.	170.	0.00	0.61
384	25	3.39	3.39	192.	66.	0.00	0.60	8.06	8.06	546.	248.	0.00	0.90
397	25	3.39	3.39	73.	179.	0.00	1.31	8.06	8.06	169.	236.	0.00	0.75
399	25	3.39	3.39	84.	162.	0.00	1.20	8.06	8.06	79.	110.	0.00	0.35
411	25	3.39	3.39	0.	183.	0.00	1.28	8.06	8.06	105.	145.	0.00	0.46
413	25	3.39	3.39	25.	172.	0.00	1.23	8.06	8.06	101.	207.	0.00	0.64
414	25	3.39	3.39	188.	223.	0.00	1.70	8.06	8.06	72.	45.	0.00	0.16
424	25	3.39	3.39	139.	83.	0.00	0.68	8.06	8.06	147.	194.	0.00	0.62
428	25	3.39	3.39	75.	135.	0.00	1.01	8.06	8.06	278.	150.	0.00	0.53
429	25	3.39	3.39	2.	167.	0.00	1.17	8.06	8.06	220.	84.	0.00	0.31
432	25	3.39	3.39	141.	86.	0.00	0.71	8.06	8.06	98.	96.	0.00	0.31
437	25	3.39	3.39	169.	143.	0.00	1.13	8.06	8.06	44.	11.	0.00	0.05
438	25	3.39	3.39	0.	190.	0.00	1.33	8.06	8.06	78.	30.	0.00	0.11
449	25	3.39	3.39	123.	149.	0.00	1.14	8.06	8.06	159.	132.	0.00	0.44
453	25	3.39	3.39	168.	151.	0.00	1.19	8.06	8.06	122.	84.	0.00	0.29
459	25	3.39	3.39	76.	89.	0.00	0.68	8.06	8.06	102.	62.	0.00	0.22
469	25	3.39	3.39	85.	103.	0.00	0.86	8.06	8.06	146.	92.	0.01	0.32
470	25	3.39	3.39	115.	98.	0.00	0.87	8.06	8.06	147.	-11.	0.03	0.15
477	25	3.39	3.39	202.	94.	0.00	0.95	8.06	8.06	197.	70.	0.00	0.27
478	25	3.39	3.39	286.	103.	0.00	0.93	8.06	8.06	118.	-12.	0.04	0.15
485	25	3.39	3.39	172.	68.	0.00	0.71	8.06	8.06	1533.	10.	0.21	0.49
486	25	3.39	3.39	157.	15.	0.00	0.63	8.06	8.06	416.	12.	0.20	0.45

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
83	0.1	0.2	0.2	84	0.2	0.2	0.2	230	0.5	0.1	0.3
231	0.3	0.1	0.3	319	0.3	0.1	0.3	321	0.4	0.2	0.5
333	0.0	0.5	0.5	335	0.2	0.1	0.2	336	0.1	0.4	0.4
348	0.6	1.4	1.5	352	0.5	0.1	0.5	353	0.5	0.4	0.7
356	0.1	0.2	0.2	361	0.3	0.1	0.3	362	0.1	0.1	0.1
374	0.1	0.1	0.1	378	0.1	0.1	0.1	384	0.1	0.4	0.4
397	0.0	0.1	0.1	399	0.0	0.1	0.1	411	0.0	0.2	0.2
413	0.2	0.0	0.2	414	0.1	0.0	0.1	424	0.7	0.1	0.7
428	0.2	0.3	0.4	429	0.1	0.3	0.3	432	0.0	0.1	0.1
437	0.1	0.0	0.2	438	0.1	0.1	0.1	449	0.1	0.0	0.1
453	0.0	0.2	0.2	459	0.1	0.2	0.2	469	0.1	0.1	0.1
470	0.1	0.1	0.1	477	0.1	0.3	0.2	478	0.1	0.2	0.1
485	0.5	2.6	1.6	486	0.2	1.1	0.7				

MACROGUSCIO asce1

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA						COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE					
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
83	3.39	3.39	57	-15	1.09	-3.	0.000	53	-13	1.00	-2.	0.000	23	-12	0.66	-4.	0.000
84	3.39	3.39	40	-18	1.03	-6.	0.000	39	-17	1.00	-6.	0.000	26	-9	0.59	-3.	0.000
230	3.39	3.39	0.	39	0.00	569.	0.000	0.	28	0.00	419.	0.000	0.	14	0.00	205.	0.000

231	3.39	3.39	44	21	0.00	380.	0.000	20	5	0.00	111.	0.000	14	9	0.00	151.	0.000
319	3.39	3.39	223	38	0.00	907.	0.000	88	26	0.00	526.	0.000	71	24	0.00	472.	0.000
321	3.39	7.46	11	54	0.00	821.	0.000	0.	36	0.00	526.	0.000	0.	31	0.00	455.	0.000
333	3.39	3.39	143	56	0.00	1041.	0.000	61	45	0.00	756.	0.000	47	41	0.00	685.	0.000
335	3.39	3.39	0.	19	0.00	281.	0.000	0.	12	0.00	180.	0.000	0.	10	0.00	154.	0.000
336	3.39	3.39	109	37	0.00	709.	0.000	59	28	0.00	499.	0.000	50	25	0.00	446.	0.000
348	3.39	3.39	19	21	0.00	336.	0.000	5	17	0.00	265.	0.000	4	16	0.00	246.	0.000
352	3.39	3.39	0.	6	0.00	88.	0.000	0.	4	0.00	61.	0.000	0.	3	0.00	51.	0.000
353	3.39	3.39	57	17	0.00	333.	0.000	40	14	0.00	267.	0.000	36	13	0.00	247.	0.000
356	3.39	3.39	19	1	0.34	47.	0.000	15	1	0.29	35.	0.000	15	1	0.31	30.	0.000
361	3.39	3.39	0.	4	0.00	64.	0.000	0.	2	0.00	29.	0.000	0.	1	0.00	21.	0.000
362	3.39	3.39	0.	-5	0.18	-3.	0.000	0.	-1	0.03	-1.	0.000	0.	0.	0.01	0.	0.000
374	3.39	3.39	0.	-11	0.43	-7.	0.000	0.	-10	0.39	-6.	0.000	0.	-10	0.39	-6.	0.000
378	3.39	3.39	4	-7	0.29	-4.	0.000	5	-9	0.40	-5.	0.000	5	-10	0.43	-5.	0.000
384	3.39	3.39	0.	-13	0.50	-8.	0.000	0.	-1	0.04	-1.	0.000	0.	-2	0.08	-1.	0.000
397	3.39	3.39	64	41	0.00	704.	0.000	47	27	0.00	465.	0.000	42	23	0.00	401.	0.000
399	3.39	3.39	7	-2	0.15	-1.	0.000	5	-1	0.08	0.	0.000	4	-1	0.07	0.	0.000
411	3.39	3.39	55	90	0.00	1407.	0.000	43	77	0.00	1207.	0.000	39	73	0.00	1139.	0.000
413	3.39	3.39	44	28	0.00	475.	0.000	36	22	0.00	377.	0.000	34	20	0.00	351.	0.000
414	3.39	3.39	18	60	0.00	905.	0.000	7	53	0.00	792.	0.000	4	51	0.00	753.	0.000
424	3.39	3.39	44	31	0.00	525.	0.000	35	25	0.00	431.	0.000	33	24	0.00	400.	0.000
428	3.39	3.39	28	12	0.00	223.	0.000	22	10	0.00	181.	0.000	22	9	0.00	170.	0.000
429	3.39	3.39	14	32	0.00	489.	0.000	1	28	0.00	412.	0.000	0.	26	0.00	384.	0.000
432	3.39	3.39	20	8	0.00	151.	0.000	16	7	0.00	124.	0.000	15	6	0.00	117.	0.000
437	3.39	3.39	16	7	0.00	132.	0.000	9	6	0.00	97.	0.000	8	5	0.00	83.	0.000
438	3.39	3.39	0.	8	0.00	120.	0.000	0.	3	0.00	51.	0.000	0.	2	0.00	31.	0.000
449	3.39	3.39	11	-7	0.39	-3.	0.000	4	-9	0.39	-5.	0.000	2	-1	0.04	0.	0.000
453	3.39	3.39	0.	4	0.00	64.	0.000	0.	0.	0.02	0.	0.000	0.	-2	0.07	-1.	0.000
459	3.39	3.39	0.	0.	0.00	4.	0.000	0.	-3	0.12	-2.	0.000	0.	-4	0.16	-2.	0.000
469	3.39	3.39	0.	-1	0.05	-1.	0.000	0.	-1	0.05	-1.	0.000	0.	-1	0.06	-1.	0.000
470	3.39	3.39	31	-1	0.66	28.	0.000	26	0.	0.58	31.	0.000	13	-3	0.22	0.	0.000
477	3.39	3.39	108	-2	2.38	130.	0.000	89	-2	1.95	100.	0.000	65	-1	1.44	81.	0.000
478	3.39	3.39	117	-1	2.59	155.	0.000	97	-1	2.14	131.	0.000	49	-1	1.08	51.	0.000
485	3.39	3.39	35	5	0.00	131.	0.000	23	4	0.00	96.	0.000	5	4	0.00	62.	0.000
486	3.39	3.39	7	3	0.00	58.	0.000	14	2	0.00	54.	0.000	30	2	0.57	72.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
			Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
83	8.06	8.06	203	-204	9.11	-93.	0.000	159	-160	7.15	-73.	0.000	80	-146	5.99	-72.	0.000
84	8.06	8.06	194	-213	9.35	-98.	0.000	145	-180	7.77	-85.	0.000	90	-177	7.20	-88.	0.000
230	8.06	8.06	0.	-155	5.66	-85.	0.000	0.	-142	5.16	-77.	0.000	0.	-130	4.75	-71.	0.000
231	8.06	8.06	0.	-169	6.17	-93.	0.000	0.	-155	5.65	-85.	0.000	0.	-154	5.60	-84.	0.000
319	8.06	8.06	124	-104	4.83	-45.	0.000	34	-115	4.47	-60.	0.000	22	-118	4.49	-62.	0.000
321	8.06	8.06	0.	-104	3.80	-57.	0.000	0.	-117	4.26	-64.	0.000	0.	-120	4.37	-65.	0.000
333	8.06	8.06	70	-104	4.37	-50.	0.000	17	-116	4.39	-62.	0.000	11	-120	4.45	-64.	0.000
335	8.06	8.06	0.	-103	3.75	-56.	0.000	0.	-116	4.23	-63.	0.000	0.	-119	4.33	-65.	0.000
336	8.06	8.06	0.	-105	3.82	-57.	0.000	0.	-118	4.29	-64.	0.000	0.	-121	4.40	-66.	0.000
348	8.06	8.06	0.	-84	3.07	-46.	0.000	0.	-99	3.62	-54.	0.000	2	-103	3.79	-56.	0.000
352	8.06	8.06	116	-147	6.33	-70.	0.000	95	-127	5.42	-61.	0.000	86	-122	5.15	-59.	0.000
353	8.06	8.06	58	-130	5.23	-66.	0.000	54	-113	4.57	-57.	0.000	49	-109	4.38	-55.	0.000
356	8.06	8.06	141	-120	5.52	-52.	0.000	106	-121	5.29	-56.	0.000	100	-121	5.24	-57.	0.000
361	8.06	8.06	0.	-95	3.45	-52.	0.000	0.	-94	3.44	-52.	0.000	0.	-92	3.36	-50.	0.000
362	8.06	8.06	0.	-90	3.28	-49.	0.000	0.	-90	3.27	-49.	0.000	0.	-90	3.28	-49.	0.000
374	8.06	8.06	0.	-67	2.43	-36.	0.000	0.	-85	3.09	-46.	0.000	0.	-89	3.26	-49.	0.000
378	8.06	8.06	0.	-70	2.55	-38.	0.000	0.	-83	3.03	-45.	0.000	0.	-87	3.16	-47.	0.000
384	8.06	8.06	0.	-73	2.65	-40.	0.000	0.	-88	3.20	-48.	0.000	0.	-92	3.34	-50.	0.000
397	8.06	8.06	27	-24	1.12	-11.	0.000	22	-33	1.38	-16.	0.000	20	-35	1.45	-17.	0.000
399	8.06	8.06	32	-85	3.38	-44.	0.000	26	-73	2.88	-38.	0.000	24	-70	2.75	-36.	0.000
411	8.06	8.06	44	-57	2.44	-27.	0.000	32	-48	2.01	-23.	0.000	28	-46	1.90	-22.	0.000
413	8.06	8.06	32	-81	3.23	-42.	0.000	29	-80	3.15	-41.	0.000	29	-79	3.13	-41.	0.000
414	8.06	8.06	44	-77	3.19	-38.	0.000	32	-62	2.54	-31.	0.000	28	-59	2.37	-29.	0.000
424	8.06	8.06	30	-37	1.58	-17.	0.000	28	-33	1.43	-15.	0.000	26	-33	1.40	-15.	0.000
428	8.06	8.06	26	-100	3.85	-52.	0.000	0.	-84	3.06	-46.	0.000	0.	-83	3.02	-45.	0.000
429	8.06	8.06	4	-71	2.61	-38.	0.000	0.	-63	2.29	-34.	0.000	0.	-63	2.31	-35.	0.000
432	8.06	8.06	0.	-88	3.21	-48.	0.000	0.	-83	3.03	-45.	0.000	0.	-81	2.96	-44.	0.000
437	8.06	8.06	0.	-19	0.70	-10.	0.000	0.	-27	0.98	-15.	0.000	0.	-29	1.07	-16.	0.000
438	8.06	8.06	0.	-20	0.72	-11.	0.000	0.	-26	0.95	-14.	0.000	0.	-28	1.03	-15.	0.000
449	8.06	8.06	0.	-25	0.89	-13.	0.000	0.	-26	0.95	-14.	0.000	0.	-27	0.99	-15.	0.000
453	8.06	8.06	0.	-20	0.73	-11.	0.000	0.	-24	0.88	-13.	0.000	0.	-26	0.95	-14.	0.000
459	8.06	8.06	0.	-14	0.53	-8.	0.000	0.	-19	0.70	-11.	0.000	0.	-21	0.78	-12.	0.000
469	8.06	8.06	12	-29	1.16	-15.	0.000	12	-29	1.16	-15.	0.000	0.	-26	0.93	-14.	0.000
470	8.06	8.06	0.	-34	1.23	-18.	0.000	0.	-33	1.20	-18.	0.000	1	-34	1.26	-19.	0.000
477	8.06	8.06	191	-24	3.11	2.	0.000	167	-22	2.65	1.	0.000	108	-20	1.62	-1.	0.000
478	8.06	8.06	146	-30	2.28	-3.	0.000	126	-27	2.02	-3.	0.000	78	-21	1.39	-4.	0.000
485	8.06	8.06	0.	13	0.00	79.	0.000	0.	10	0.00	62.	0.000	0.	-2	0.06	-1.	0.000
486	8.06	8.06	0.	9	0.00	57.	0.000	0.	7	0.00	46.	0.000	0.	-3	0.11	-2.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
			Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
83	3.39	3.39	0.	-15	0.59	-9.	0.000	0.	-13	0.52	-8.	0.000	20	-12	0.28	-9.	0.000
84	3.39	3.39	0.	-18	0.67	-10.	0.000	0.	-17	0.65	-10.	0.000	0.	-9	0.36	-5.	0.000
230	3.39	3.39	160	39	0.00	817.	0.000	150	28	0.00	652.	0.000	93	14	0.00	350.	0.000
231	3.39	3.39	0.	21	0.00	311.	0.000	14	5	0.00	103.	0.000	0.	9	0.00	129.	0.000
319	3.39	3.39	0.	38	0.00	561.	0.000	0.	26	0.00	390.	0.000	0.	24	0.00	361.	0.000

321	7.46	3.39	53	54	0.00	403.	0.000	54	36	0.00	277.	0.000	54	31	0.00	245.	0.000
333	3.39	3.39	134	56	0.00	1027.	0.000	47	45	0.00	734.	0.000	33	41	0.00	662.	0.000
335	3.39	3.39	176	19	2.06	549.	0.000	112	12	1.31	352.	0.000	96	10	1.11	300.	0.000
336	3.39	3.39	0.	37	0.00	539.	0.000	8	28	0.00	420.	0.000	11	25	0.00	385.	0.000
348	3.39	3.39	101	21	0.00	464.	0.000	32	17	0.00	307.	0.000	18	16	0.00	269.	0.000
352	3.39	3.39	50	6	0.42	164.	0.000	39	4	0.46	120.	0.000	36	3	0.52	106.	0.000
353	3.39	3.39	0.	17	0.00	245.	0.000	0.	14	0.00	206.	0.000	0.	13	0.00	191.	0.000
356	3.39	3.39	22	1	0.43	52.	0.000	21	1	0.43	43.	0.000	21	1	0.44	38.	0.000
361	3.39	3.39	60	4	1.07	154.	0.000	27	2	0.49	70.	0.000	21	1	0.38	52.	0.000
362	3.39	3.39	20	-5	0.00	-5.	0.000	7	-1	0.11	0.	0.000	5	0.	0.11	5.	0.000
374	3.39	3.39	16	-11	0.29	-8.	0.000	16	-10	0.25	-8.	0.000	16	-10	0.24	-7.	0.000
378	3.39	3.39	14	-7	0.14	-5.	0.000	6	-9	0.30	-6.	0.000	4	-10	0.34	-6.	0.000
384	3.39	3.39	42	-13	0.13	-12.	0.000	31	-1	0.67	30.	0.000	29	-2	0.56	14.	0.000
397	3.39	3.39	0.	41	0.00	604.	0.000	0.	27	0.00	391.	0.000	0.	23	0.00	336.	0.000
399	3.39	3.39	9	-2	0.01	-2.	0.000	9	-1	0.16	2.	0.000	9	-1	0.17	4.	0.000
411	3.39	3.39	0.	90	0.00	1322.	0.000	0.	77	0.00	1140.	0.000	0.	73	0.00	1078.	0.000
413	3.39	3.39	0.	28	0.00	407.	0.000	0.	22	0.00	322.	0.000	0.	20	0.00	298.	0.000
414	3.39	3.39	1	60	0.00	879.	0.000	0.	53	0.00	781.	0.000	0.	51	0.00	747.	0.000
424	3.39	3.39	1	31	0.00	459.	0.000	1	25	0.00	377.	0.000	1	24	0.00	350.	0.000
428	3.39	3.39	0.	12	0.00	180.	0.000	0.	10	0.00	146.	0.000	0.	9	0.00	137.	0.000
429	3.39	3.39	2	32	0.00	472.	0.000	3	28	0.00	414.	0.000	3	26	0.00	388.	0.000
432	3.39	3.39	0.	8	0.00	119.	0.000	0.	7	0.00	100.	0.000	0.	6	0.00	94.	0.000
437	3.39	3.39	0.	7	0.00	108.	0.000	0.	6	0.00	82.	0.000	0.	5	0.00	71.	0.000
438	3.39	3.39	3	8	0.00	124.	0.000	2	3	0.00	54.	0.000	1	2	0.00	33.	0.000
449	3.39	3.39	24	-7	0.07	-7.	0.000	13	-9	0.24	-7.	0.000	10	-1	0.21	7.	0.000
453	3.39	3.39	22	4	0.00	98.	0.000	18	0.	0.40	19.	0.000	19	-2	0.34	5.	0.000
459	3.39	3.39	47	0.	1.03	71.	0.000	37	-3	0.67	13.	0.000	33	-4	0.60	0.	0.000
469	3.39	3.39	8	-1	0.14	0.	0.000	7	-1	0.12	0.	0.000	7	-1	0.00	-2.	0.000
470	3.39	3.39	20	-1	0.41	13.	0.000	18	0.	0.39	19.	0.000	17	-3	0.28	0.	0.000
477	3.39	3.39	0.	-2	0.07	-1.	0.000	0.	-2	0.07	-1.	0.000	16	-1	0.33	11.	0.000
478	3.39	3.39	0.	-1	0.03	0.	0.000	0.	-1	0.02	0.	0.000	10	-1	0.17	0.	0.000
485	3.39	3.39	28	5	0.00	121.	0.000	27	4	0.00	101.	0.000	29	4	0.15	100.	0.000
486	3.39	3.39	28	3	0.29	91.	0.000	22	2	0.28	67.	0.000	57	2	1.20	111.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
83	8.06	8.06	0.	-204	7.44	-112.	0.000	0.	-160	5.84	-88.	0.000	0.	-146	5.33	-80.	0.000
84	8.06	8.06	0.	-213	7.75	-116.	0.000	0.	-180	6.57	-99.	0.000	0.	-177	6.46	-97.	0.000
230	8.06	8.06	112	-155	4.73	-95.	0.000	85	-142	4.46	-85.	0.000	40	-130	4.42	-75.	0.000
231	8.06	8.06	97	-169	5.37	-102.	0.000	80	-155	4.99	-92.	0.000	61	-154	5.10	-90.	0.000
319	8.06	8.06	1	-104	3.80	-57.	0.000	32	-115	3.93	-66.	0.000	36	-118	4.00	-68.	0.000
321	8.06	8.06	88	-104	3.07	-65.	0.000	69	-117	3.70	-70.	0.000	61	-120	3.86	-71.	0.000
333	8.06	8.06	106	-104	2.92	-67.	0.000	60	-116	3.76	-69.	0.000	49	-120	3.96	-70.	0.000
335	8.06	8.06	157	-103	2.46	-71.	0.000	102	-116	3.39	-73.	0.000	87	-119	3.62	-73.	0.000
336	8.06	8.06	113	-105	2.89	-68.	0.000	63	-118	3.77	-70.	0.000	52	-121	3.97	-71.	0.000
348	8.06	8.06	257	-84	0.96	-70.	0.000	63	-99	3.10	-60.	0.000	29	-103	3.53	-59.	0.000
352	8.06	8.06	0.	-147	5.38	-81.	0.000	0.	-127	4.64	-70.	0.000	0.	-122	4.44	-67.	0.000
353	8.06	8.06	0.	-130	4.75	-71.	0.000	0.	-113	4.13	-62.	0.000	0.	-109	3.98	-60.	0.000
356	8.06	8.06	0.	-120	4.36	-65.	0.000	0.	-121	4.42	-66.	0.000	0.	-121	4.41	-66.	0.000
361	8.06	8.06	42	-95	3.10	-56.	0.000	31	-94	3.18	-54.	0.000	26	-92	3.15	-53.	0.000
362	8.06	8.06	68	-90	2.72	-55.	0.000	43	-90	2.92	-53.	0.000	37	-90	2.97	-53.	0.000
374	8.06	8.06	117	-67	1.47	-47.	0.000	82	-85	2.41	-54.	0.000	74	-89	2.65	-56.	0.000
378	8.06	8.06	104	-70	1.70	-48.	0.000	69	-83	2.47	-52.	0.000	60	-87	2.67	-53.	0.000
384	8.06	8.06	125	-73	1.62	-51.	0.000	84	-88	2.51	-56.	0.000	73	-92	2.74	-57.	0.000
397	8.06	8.06	0.	-24	0.89	-13.	0.000	0.	-33	1.20	-18.	0.000	0.	-35	1.29	-19.	0.000
399	8.06	8.06	0.	-85	3.11	-47.	0.000	0.	-73	2.66	-40.	0.000	0.	-70	2.55	-38.	0.000
411	8.06	8.06	0.	-57	2.09	-31.	0.000	0.	-48	1.75	-26.	0.000	0.	-46	1.67	-25.	0.000
413	8.06	8.06	0.	-81	2.97	-45.	0.000	0.	-80	2.91	-44.	0.000	0.	-79	2.89	-43.	0.000
414	8.06	8.06	0.	-77	2.82	-42.	0.000	0.	-62	2.27	-34.	0.000	0.	-59	2.14	-32.	0.000
424	8.06	8.06	76	-37	0.71	-27.	0.000	52	-33	0.77	-23.	0.000	46	-33	0.81	-22.	0.000
428	8.06	8.06	2	-100	3.63	-55.	0.000	11	-84	2.97	-47.	0.000	10	-83	2.94	-46.	0.000
429	8.06	8.06	13	-71	2.47	-40.	0.000	21	-63	2.12	-36.	0.000	20	-63	2.15	-37.	0.000
432	8.06	8.06	4	-88	3.18	-48.	0.000	6	-83	2.99	-46.	0.000	6	-81	2.91	-45.	0.000
437	8.06	8.06	41	-19	0.36	-14.	0.000	33	-27	0.71	-18.	0.000	31	-29	0.81	-19.	0.000
438	8.06	8.06	57	-20	0.25	-16.	0.000	45	-26	0.58	-18.	0.000	41	-28	0.69	-19.	0.000
449	8.06	8.06	96	-25	0.11	-22.	0.000	72	-26	0.36	-21.	0.000	65	-27	0.46	-21.	0.000
453	8.06	8.06	75	-20	0.11	-18.	0.000	58	-24	0.41	-19.	0.000	53	-26	0.52	-19.	0.000
459	8.06	8.06	128	-14	2.27	2.	0.000	104	-19	0.15	-20.	0.000	97	-21	0.02	-21.	0.000
469	8.06	8.06	13	-29	0.94	-17.	0.000	8	-29	0.99	-17.	0.000	7	-26	0.88	-15.	0.000
470	8.06	8.06	36	-34	0.93	-22.	0.000	31	-33	0.95	-21.	0.000	18	-34	1.11	-20.	0.000
477	8.06	8.06	0.	-24	0.87	-13.	0.000	0.	-22	0.80	-12.	0.000	0.	-20	0.74	-11.	0.000
478	8.06	8.06	0.	-30	1.08	-16.	0.000	0.	-27	0.98	-15.	0.000	0.	-21	0.75	-11.	0.000
485	8.06	8.06	817	13	11.57	587.	0.000	639	10	9.04	460.	0.000	303	-2	4.46	179.	0.000
486	8.06	8.06	658	9	9.34	466.	0.000	553	7	7.86	390.	0.000	256	-3	3.80	142.	0.000

MACROGUSCIO asce2

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]



CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	207.5	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	3	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
85	25	3.36	3.36	202.	34.	0.00	0.84	8.21	8.21	416.	224.	0.00	0.77
89	25	3.36	3.36	109.	172.	0.00	1.31	8.21	8.21	479.	280.	0.00	0.95
232	25	3.36	3.36	311.	162.	0.87	41.26	8.21	8.21	0.	396.	0.00	1.15
236	25	3.36	3.36	65.	105.	0.00	1.25	8.21	8.21	0.	207.	0.00	0.60
326	25	7.25	6.82	1289.	159.	1.79	17.65	8.21	8.21	806.	329.	0.00	1.20
327	25	3.36	3.36	0.	162.	0.00	1.77	8.21	8.21	811.	209.	0.00	0.85
355	25	3.36	3.36	251.	42.	0.00	0.48	8.21	8.21	0.	222.	0.00	0.64
360	25	3.36	3.36	0.	209.	0.00	1.48	8.21	8.21	0.	120.	0.00	0.35
364	25	3.36	3.36	165.	194.	0.00	1.50	8.21	8.21	0.	67.	0.00	0.19
375	25	3.36	3.36	0.	165.	0.00	1.17	8.21	8.21	0.	130.	0.00	0.38
377	25	3.36	3.36	460.	79.	0.00	0.89	8.21	8.21	0.	162.	0.00	0.47
382	25	3.36	3.36	46.	106.	0.00	0.78	8.21	8.21	213.	207.	0.00	0.66
385	25	3.36	3.36	12.	168.	0.00	1.20	8.21	8.21	226.	151.	0.00	0.50
386	25	3.36	3.36	16.	82.	0.00	0.59	8.21	8.21	88.	113.	0.00	0.35
400	25	3.36	3.36	57.	22.	0.00	0.20	8.21	8.21	216.	61.	0.00	0.24
401	25	3.36	3.36	0.	228.	0.00	1.61	8.21	8.21	252.	139.	0.00	0.48
405	25	3.36	3.36	22.	239.	0.00	1.71	8.21	8.21	123.	128.	0.02	0.41
415	25	3.36	3.36	116.	181.	0.00	1.37	8.21	8.21	135.	29.	0.00	0.12
431	25	3.36	3.36	89.	131.	0.00	0.99	8.21	8.21	0.	113.	0.00	0.33
436	25	3.36	3.36	77.	188.	0.00	1.39	8.21	8.21	0.	-6.	0.00	0.00
440	25	3.36	3.36	14.	226.	0.00	1.61	8.21	8.21	0.	-12.	0.01	-0.01
450	25	3.36	3.36	0.	117.	0.00	0.83	8.21	8.21	0.	0.	0.00	0.00
452	25	3.36	3.36	390.	162.	0.00	1.44	8.21	8.21	0.	55.	0.00	0.16
457	25	3.36	3.36	76.	178.	0.00	1.31	8.21	8.21	192.	70.	0.00	0.26
460	25	3.36	3.36	69.	149.	0.00	1.11	8.21	8.21	87.	50.	0.00	0.17
461	25	3.36	3.36	27.	45.	0.00	0.34	8.21	8.21	16.	27.	0.00	0.08
467	25	3.36	3.36	40.	11.	0.00	0.11	8.21	8.21	188.	22.	0.00	0.12
468	25	3.36	3.36	0.	115.	0.00	0.82	8.21	8.21	192.	45.	0.00	0.19
471	25	3.36	3.36	93.	109.	0.00	0.88	8.21	8.21	196.	103.	0.00	0.36
476	25	3.36	3.36	52.	114.	0.00	0.84	8.21	8.21	127.	36.	0.00	0.14
479	25	3.36	3.36	279.	111.	0.00	0.99	8.21	8.21	172.	106.	0.00	0.36
481	25	3.36	3.36	477.	108.	0.00	1.11	8.21	8.21	41.	63.	0.00	0.19
487	25	3.36	3.36	249.	89.	0.00	0.84	8.21	8.21	1842.	18.	0.24	0.60
489	25	3.36	3.36	127.	50.	0.00	0.65	8.21	8.21	1810.	-6.	0.27	0.53

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
85	25	3.36	3.36	96.	34.	0.00	0.75	8.21	8.21	0.	224.	0.00	0.65
89	25	3.36	3.36	0.	172.	0.00	1.22	8.21	8.21	0.	151.	0.00	0.81
232	25	3.36	3.36	0.	162.	0.00	1.67	8.21	8.21	339.	396.	0.00	1.25
236	25	3.36	3.36	147.	105.	0.00	1.52	8.21	8.21	296.	202.	0.00	0.74
326	25	6.82	3.36	0.	159.	0.00	1.12	8.21	8.21	0.	338.	0.00	0.98
327	25	3.36	3.36	385.	162.	0.00	1.84	8.21	8.21	0.	166.	0.00	0.61
355	25	3.36	3.36	37.	42.	0.00	0.32	8.21	8.21	118.	222.	0.00	0.68
360	25	3.36	3.36	210.	209.	0.00	1.64	8.21	8.21	129.	120.	0.00	0.39
364	25	3.36	3.36	86.	194.	0.00	1.44	8.21	8.21	109.	67.	0.00	0.23
375	25	3.36	3.36	50.	165.	0.00	1.20	8.21	8.21	157.	130.	0.00	0.42
377	25	3.36	3.36	0.	79.	0.00	0.56	8.21	8.21	179.	162.	0.00	0.52
382	25	3.36	3.36	0.	106.	0.00	0.75	8.21	8.21	0.	207.	0.00	0.60
385	25	3.36	3.36	0.	168.	0.00	1.19	8.21	8.21	0.	151.	0.00	0.44
386	25	3.36	3.36	31.	82.	0.00	0.60	8.21	8.21	0.	113.	0.00	0.33
400	25	3.36	3.36	0.	22.	0.00	0.16	8.21	8.21	0.	61.	0.00	0.18
401	25	3.36	3.36	308.	228.	0.00	1.84	8.21	8.21	0.	139.	0.00	0.40
405	25	3.36	3.36	59.	239.	0.00	1.74	8.21	8.21	0.	14.	0.00	0.37
415	25	3.36	3.36	0.	181.	0.00	1.28	8.21	8.21	0.	29.	0.00	0.08
431	25	3.36	3.36	70.	131.	0.00	0.98	8.21	8.21	206.	113.	0.00	0.39
436	25	3.36	3.36	69.	188.	0.00	1.38	8.21	8.21	130.	-6.	0.02	0.04
440	25	3.36	3.36	129.	226.	0.00	1.70	8.21	8.21	141.	-12.	0.03	0.04
450	25	3.36	3.36	119.	117.	0.00	0.92	8.21	8.21	185.	0.	0.03	0.06
452	25	3.36	3.36	0.	162.	0.00	1.15	8.21	8.21	259.	55.	0.00	0.24
457	25	3.36	3.36	53.	178.	0.00	1.30	8.21	8.21	184.	70.	0.00	0.26
460	25	3.36	3.36	109.	149.	0.00	1.14	8.21	8.21	95.	50.	0.00	0.17
461	25	3.36	3.36	73.	45.	0.00	0.37	8.21	8.21	129.	27.	0.00	0.12
467	25	3.36	3.36	0.	11.	0.00	0.08	8.21	8.21	0.	22.	0.00	0.06

468	25	3.36	3.36	330.	115.	0.00	1.06	8.21	8.21	0.	45.	0.00	0.13
471	25	3.36	3.36	172.	109.	0.00	0.89	8.21	8.21	38.	103.	0.00	0.31
476	25	3.36	3.36	104.	114.	0.00	0.88	8.21	8.21	0.	36.	0.00	0.10
479	25	3.36	3.36	446.	111.	0.00	1.11	8.21	8.21	219.	106.	0.00	0.45
481	25	3.36	3.36	0.	108.	0.00	1.30	8.21	8.21	344.	46.	0.07	0.30
487	25	3.36	3.36	144.	89.	0.00	0.73	8.21	8.21	467.	18.	0.02	0.19
489	25	3.36	3.36	77.	50.	0.00	0.61	8.21	8.21	0.	-5.	0.00	0.00

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
85	0.2	0.2	0.2	89	0.2	0.3	0.2	232	0.4	0.1	0.3
236	0.6	0.3	0.4	326	0.4	0.2	0.3	327	0.6	0.1	0.4
355	0.3	0.1	0.3	360	0.1	0.0	0.1	364	0.2	0.0	0.2
375	0.5	0.2	0.5	377	0.3	0.0	0.3	382	0.1	0.2	0.2
385	0.2	0.9	0.9	386	0.6	1.0	1.2	400	0.4	0.3	0.5
401	0.2	0.1	0.3	405	0.1	0.1	0.1	415	0.0	0.1	0.1
431	0.1	0.1	0.1	436	0.0	0.1	0.1	440	0.1	0.1	0.1
450	0.7	0.3	0.7	452	0.2	0.3	0.3	457	0.1	0.0	0.2
460	0.3	1.3	1.3	461	0.9	1.3	1.6	467	0.6	0.3	0.6
468	0.3	0.3	0.5	471	0.2	0.1	0.1	476	0.0	0.1	0.1
479	0.2	0.4	0.3	481	0.1	0.4	0.3	487	0.5	3.2	2.0
489	0.3	1.7	1.1								

MACROGUSCIO asce2

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	-	forze	: [daN]
momenti	: [daNcm/cm]	-	tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	-	angoli	: [gradi]
armature	: [cm2]			

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA						COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE					
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
85	3.36	3.36	67	-1	1.49	77.	0.000	43	4	0.66	121.	0.000	36	-10	0.70	-2.	0.000
89	3.36	3.36	0.	10	0.00	145.	0.000	0.	6	0.00	82.	0.000	0.	-10	0.38	-6.	0.000
232	3.36	3.36	0.	26	0.00	388.	0.000	0.	24	0.00	360.	0.000	0.	12	0.00	177.	0.000
236	3.36	3.36	0.	7	0.00	101.	0.000	0.	3	0.00	47.	0.000	0.	2	0.00	27.	0.000
326	4.33	5.96	150	21	0.64	430.	0.000	74	12	0.00	230.	0.000	53	8	0.23	151.	0.000
327	3.36	3.36	84	5	1.63	195.	0.000	83	3	1.75	166.	0.000	52	0.	1.17	70.	0.000
355	3.36	3.36	47	0.	1.04	64.	0.000	21	2	0.22	67.	0.000	12	2	0.00	44.	0.000
360	3.36	3.36	40	-1	0.89	48.	0.000	13	1	0.14	41.	0.000	8	1	0.14	21.	0.000
364	3.36	3.36	14	8	0.00	141.	0.000	17	12	0.00	211.	0.000	22	13	0.00	227.	0.000
375	3.36	3.36	6	-7	0.32	-3.	0.000	0.	-4	0.15	-2.	0.000	0.	-3	0.11	-2.	0.000
377	3.36	3.36	174	-17	3.03	44.	0.000	131	-18	2.22	1.	0.000	119	-18	1.95	1.	0.000
382	3.36	3.36	32	-5	0.53	0.	0.000	27	-3	0.54	1.	0.000	27	-2	0.52	14.	0.000
385	3.36	3.36	13	-7	0.38	-3.	0.000	11	-3	0.21	0.	0.000	11	-2	0.19	0.	0.000
386	3.36	3.36	66	-4	1.32	37.	0.000	45	-2	0.98	43.	0.000	43	-1	0.95	52.	0.000
400	3.36	3.36	58	-9	0.95	0.	0.000	47	-8	0.78	0.	0.000	43	-8	0.70	0.	0.000
401	3.36	3.36	0.	-15	0.57	-9.	0.000	0.	-12	0.45	-7.	0.000	0.	-11	0.41	-6.	0.000
405	3.36	3.36	0.	-13	0.52	-8.	0.000	0.	-10	0.38	-6.	0.000	10	-4	0.27	-2.	0.000
415	3.36	3.36	48	1	1.06	80.	0.000	33	0.	0.74	44.	0.000	28	0.	0.63	35.	0.000
431	3.36	3.36	0.	11	0.00	167.	0.000	0.	11	0.00	159.	0.000	0.	13	0.00	190.	0.000
436	3.36	3.36	0.	-4	0.14	-2.	0.000	0.	-4	0.14	-2.	0.000	0.	-4	0.14	-2.	0.000
440	3.36	3.36	10	45	0.00	689.	0.000	6	39	0.00	587.	0.000	5	37	0.00	559.	0.000
450	3.36	3.36	0.	-4	0.14	-2.	0.000	0.	-5	0.19	-3.	0.000	0.	-5	0.19	-3.	0.000
452	3.36	3.36	253	-3	5.62	320.	0.000	198	-6	4.34	205.	0.000	182	-6	3.97	180.	0.000
457	3.36	3.36	7	18	0.00	274.	0.000	4	14	0.00	216.	0.000	2	10	0.00	155.	0.000
460	3.36	3.36	2	15	0.00	224.	0.000	1	12	0.00	180.	0.000	0.	5	0.00	80.	0.000
461	3.36	3.36	22	-1	0.45	14.	0.000	17	-1	0.36	15.	0.000	15	-1	0.30	10.	0.000
467	3.36	3.36	10	-3	0.20	-1.	0.000	13	-3	0.24	0.	0.000	14	-3	0.25	0.	0.000
468	3.36	3.36	0.	23	0.00	346.	0.000	0.	18	0.00	263.	0.000	0.	15	0.00	216.	0.000
471	3.36	3.36	64	7	0.72	205.	0.000	55	4	0.96	143.	0.000	8	0.	0.17	10.	0.000
476	3.36	3.36	0.	22	0.00	323.	0.000	0.	17	0.00	256.	0.000	0.	16	0.00	231.	0.000
479	3.36	3.36	0.	6	0.00	91.	0.000	0.	5	0.00	67.	0.000	15	3	0.00	65.	0.000

481	3.36	3.36	0.	3	0.00	40.	0.000	0.	1	0.00	19.	0.000	22	2	0.30	64.	0.000
487	3.36	3.36	7	10	0.00	165.	0.000	19	8	0.00	156.	0.000	68	8	0.57	227.	0.000
489	3.36	3.36	14	4	0.00	82.	0.000	13	3	0.00	61.	0.000	165	0.	3.68	242.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
85	8.21	8.21	70	-150	6.04	-75.	0.000	55	-137	5.45	-70.	0.000	17	-141	5.27	-75.	0.000
89	8.21	8.21	87	-176	7.12	-88.	0.000	48	-161	6.26	-84.	0.000	0.	-162	5.89	-88.	0.000
232	8.21	8.21	0.	-191	6.97	-105.	0.000	0.	-138	5.03	-75.	0.000	0.	-130	4.75	-71.	0.000
236	8.21	8.21	0.	-200	7.28	-109.	0.000	0.	-173	6.30	-95.	0.000	0.	-165	6.00	-90.	0.000
326	8.21	8.21	238	-155	7.60	-62.	0.000	197	-143	6.81	-60.	0.000	138	-142	6.29	-65.	0.000
327	8.21	8.21	354	-180	9.46	-65.	0.000	267	-178	8.67	-72.	0.000	127	-171	7.28	-82.	0.000
355	8.21	8.21	0.	-147	5.36	-80.	0.000	0.	-143	5.21	-78.	0.000	0.	-141	5.13	-77.	0.000
360	8.21	8.21	0.	-197	7.16	-107.	0.000	0.	-173	6.28	-94.	0.000	0.	-166	6.06	-91.	0.000
364	8.21	8.21	0.	-184	6.68	-100.	0.000	0.	-170	6.19	-93.	0.000	0.	-163	5.92	-89.	0.000
375	8.21	8.21	0.	-193	7.04	-106.	0.000	0.	-179	6.50	-98.	0.000	0.	-172	6.25	-94.	0.000
377	8.21	8.21	0.	-194	7.05	-106.	0.000	0.	-180	6.54	-98.	0.000	0.	-172	6.27	-94.	0.000
382	8.21	8.21	94	-105	4.58	-48.	0.000	79	-110	4.66	-53.	0.000	78	-108	4.57	-52.	0.000
385	8.21	8.21	49	-52	2.29	-24.	0.000	37	-59	2.47	-29.	0.000	35	-62	2.52	-30.	0.000
386	8.21	8.21	0.	-101	3.67	-55.	0.000	0.	-99	3.60	-54.	0.000	0.	-98	3.56	-53.	0.000
400	8.21	8.21	99	-106	4.65	-48.	0.000	79	-98	4.21	-46.	0.000	71	-95	4.06	-45.	0.000
401	8.21	8.21	110	-106	4.75	-47.	0.000	90	-102	4.44	-47.	0.000	85	-100	4.32	-46.	0.000
405	8.21	8.21	64	-85	3.63	-41.	0.000	54	-78	3.29	-38.	0.000	40	-76	3.10	-38.	0.000
415	8.21	8.21	85	-103	4.45	-48.	0.000	68	-95	4.00	-45.	0.000	56	-92	3.81	-45.	0.000
431	8.21	8.21	0.	-103	3.76	-56.	0.000	0.	-94	3.43	-51.	0.000	0.	-91	3.31	-50.	0.000
436	8.21	8.21	0.	-138	5.04	-76.	0.000	0.	-122	4.45	-67.	0.000	0.	-118	4.28	-64.	0.000
440	8.21	8.21	0.	-131	4.77	-72.	0.000	0.	-116	4.22	-63.	0.000	0.	-111	4.04	-61.	0.000
450	8.21	8.21	0.	-142	5.16	-77.	0.000	0.	-125	4.56	-68.	0.000	0.	-120	4.36	-65.	0.000
452	8.21	8.21	0.	-144	5.23	-78.	0.000	0.	-127	4.63	-69.	0.000	0.	-122	4.43	-66.	0.000
457	8.21	8.21	52	-49	2.22	-22.	0.000	37	-49	2.10	-23.	0.000	34	-49	2.06	-24.	0.000
460	8.21	8.21	55	13	0.00	115.	0.000	41	5	0.18	57.	0.000	37	2	0.43	36.	0.000
461	8.21	8.21	0.	-42	1.53	-23.	0.000	0.	-40	1.45	-22.	0.000	0.	-40	1.45	-22.	0.000
467	8.21	8.21	137	-7	2.03	43.	0.000	118	-11	1.69	19.	0.000	108	-11	1.52	13.	0.000
468	8.21	8.21	145	-5	2.16	60.	0.000	122	-9	1.78	29.	0.000	115	-10	1.65	19.	0.000
471	8.21	8.21	129	-8	1.89	35.	0.000	109	-12	2.08	3.	0.000	69	-15	1.13	-2.	0.000
476	8.21	8.21	118	-3	1.75	56.	0.000	104	-7	1.53	27.	0.000	93	-7	1.35	20.	0.000
479	8.21	8.21	0.	-11	0.40	-6.	0.000	0.	-12	0.43	-6.	0.000	0.	-10	0.38	-6.	0.000
481	8.21	8.21	0.	-16	0.60	-9.	0.000	0.	-16	0.59	-9.	0.000	0.	-12	0.43	-6.	0.000
487	8.21	8.21	1149	11	16.34	771.	0.000	925	8	13.18	612.	0.000	468	-1	6.81	279.	0.000
489	8.21	8.21	1492	5	21.47	943.	0.034	1249	4	18.00	786.	0.000	661	-4	9.66	378.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
85	3.36	3.36	0.	-1	0.05	-1.	0.000	0.	4	0.00	56.	0.000	10	-10	0.28	-7.	0.000
89	3.36	3.36	40	10	0.00	208.	0.000	32	6	0.00	132.	0.000	28	-10	0.13	-8.	0.000
232	3.36	3.36	84	26	0.00	519.	0.000	78	24	0.00	482.	0.000	27	12	0.00	219.	0.000
236	3.36	3.36	212	7	4.50	411.	0.000	167	3	3.65	291.	0.000	106	2	2.33	182.	0.000
326	5.96	4.33	0.	21	0.00	180.	0.000	0.	12	0.00	102.	0.000	0.	8	0.00	63.	0.000
327	3.36	3.36	0.	5	0.00	71.	0.000	0.	3	0.00	44.	0.000	14	0.	0.30	14.	0.000
355	3.36	3.36	0.	0.	0.01	0.	0.000	0.	2	0.00	35.	0.000	0.	2	0.00	26.	0.000
360	3.36	3.36	0.	-1	0.02	0.	0.000	0.	1	0.00	21.	0.000	0.	1	0.00	9.	0.000
364	3.36	3.36	63	8	0.41	218.	0.000	60	12	0.00	277.	0.000	58	13	0.00	283.	0.000
375	3.36	3.36	23	-7	0.05	-6.	0.000	24	-4	0.40	0.	0.000	24	-3	0.45	0.	0.000
377	3.36	3.36	0.	-17	0.64	-10.	0.000	0.	-18	0.67	-10.	0.000	0.	-18	0.68	-10.	0.000
382	3.36	3.36	36	-5	0.63	0.	0.000	35	-3	0.63	11.	0.000	34	-2	0.71	24.	0.000
385	3.36	3.36	45	-7	0.73	0.	0.000	41	-3	0.81	21.	0.000	40	-2	0.86	36.	0.000
386	3.36	3.36	8	-4	0.09	-3.	0.000	10	-2	0.16	0.	0.000	9	-1	0.18	5.	0.000
400	3.36	3.36	0.	-9	0.35	-5.	0.000	0.	-8	0.32	-5.	0.000	0.	-8	0.31	-5.	0.000
401	3.36	3.36	101	-15	1.66	0.	0.000	74	-12	1.20	0.	0.000	66	-11	1.08	0.	0.000
405	3.36	3.36	52	-13	0.05	-13.	0.000	47	-10	0.04	-11.	0.000	24	-4	0.04	-5.	0.000
415	3.36	3.36	0.	1	0.00	10.	0.000	0.	0.	0.01	0.	0.000	0.	0.	0.02	0.	0.000
431	3.36	3.36	66	11	0.00	271.	0.000	52	11	0.00	241.	0.000	39	13	0.00	251.	0.000
436	3.36	3.36	37	-4	0.63	9.	0.000	27	-4	0.45	0.	0.000	24	-4	0.39	0.	0.000
440	3.36	3.36	80	45	0.00	799.	0.000	69	39	0.00	685.	0.000	65	37	0.00	654.	0.000
450	3.36	3.36	35	-4	0.76	1.	0.000	24	-5	0.03	-5.	0.000	21	-5	0.01	-5.	0.000
452	3.36	3.36	0.	-3	0.12	-2.	0.000	0.	-6	0.21	-3.	0.000	0.	-6	0.22	-3.	0.000
457	3.36	3.36	13	18	0.00	283.	0.000	12	14	0.00	229.	0.000	37	10	0.00	210.	0.000
460	3.36	3.36	5	15	0.00	229.	0.000	6	12	0.00	187.	0.000	39	5	0.00	141.	0.000
461	3.36	3.36	34	-1	0.74	32.	0.000	24	-1	0.53	26.	0.000	21	-1	0.45	19.	0.000
467	3.36	3.36	0.	-3	0.10	-2.	0.000	0.	-3	0.12	-2.	0.000	0.	-3	0.12	-2.	0.000
468	3.36	3.36	201	23	2.02	657.	0.000	160	18	1.78	509.	0.000	147	15	2.02	441.	0.000
471	3.36	3.36	12	7	0.00	126.	0.000	11	4	0.00	78.	0.000	18	0.	0.41	25.	0.000
476	3.36	3.36	36	22	0.00	380.	0.000	29	17	0.00	301.	0.000	28	16	0.00	275.	0.000
479	3.36	3.36	175	6	3.69	349.	0.000	128	5	2.68	255.	0.000	60	3	1.20	130.	0.000
481	3.36	3.36	231	3	5.08	376.	0.000	194	1	4.29	300.	0.000	153	2	3.36	254.	0.000
487	3.36	3.36	3	10	0.00	158.	0.000	0.	8	0.00	126.	0.000	0.	8	0.00	122.	0.000
489	3.36	3.36	13	4	0.00	80.	0.000	10	3	0.00	56.	0.000	66	0.	1.46	97.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
85	8.21	8.21	0.	-150	5.46	-82.	0.000	0.	-137	5.00	-75.	0.000	0.	-141	5.13	-77.	0.000

89	8.21	8.21	0.	-176	6.41	-96.	0.000	0.	-161	5.87	-88.	0.000	11	-162	5.81	-89.	0.000
232	8.21	8.21	302	-191	4.49	-133.	0.000	272	-138	2.80	-101.	0.000	130	-130	3.68	-83.	0.000
236	8.21	8.21	442	-200	3.66	-151.	0.000	368	-173	3.28	-129.	0.000	195	-165	4.41	-108.	0.000
326	8.21	8.21	0.	-155	5.65	-85.	0.000	0.	-143	5.20	-78.	0.000	0.	-142	5.16	-77.	0.000
327	8.21	8.21	0.	-180	6.56	-98.	0.000	0.	-178	6.48	-97.	0.000	0.	-171	6.24	-94.	0.000
355	8.21	8.21	132	-147	4.27	-93.	0.000	97	-143	4.41	-87.	0.000	86	-141	4.43	-85.	0.000
360	8.21	8.21	107	-197	6.28	-117.	0.000	88	-173	5.56	-102.	0.000	80	-166	5.40	-98.	0.000
364	8.21	8.21	119	-184	5.71	-111.	0.000	91	-170	5.44	-101.	0.000	83	-163	5.24	-97.	0.000
375	8.21	8.21	115	-193	6.09	-116.	0.000	97	-179	5.71	-107.	0.000	91	-172	5.50	-102.	0.000
377	8.21	8.21	118	-194	6.08	-117.	0.000	98	-180	5.74	-107.	0.000	92	-172	5.52	-103.	0.000
382	8.21	8.21	0.	-105	3.81	-57.	0.000	0.	-110	4.01	-60.	0.000	0.	-108	3.94	-59.	0.000
385	8.21	8.21	0.	-52	1.88	-28.	0.000	0.	-59	2.16	-32.	0.000	0.	-62	2.24	-34.	0.000
386	8.21	8.21	34	-101	3.39	-58.	0.000	29	-99	3.36	-57.	0.000	28	-98	3.33	-56.	0.000
400	8.21	8.21	0.	-106	3.84	-58.	0.000	0.	-98	3.56	-53.	0.000	0.	-95	3.47	-52.	0.000
401	8.21	8.21	0.	-106	3.84	-58.	0.000	0.	-102	3.70	-56.	0.000	0.	-100	3.62	-54.	0.000
405	8.21	8.21	0.	-85	3.11	-47.	0.000	0.	-78	2.85	-43.	0.000	0.	-76	2.77	-42.	0.000
415	8.21	8.21	0.	-103	3.76	-56.	0.000	0.	-95	3.44	-52.	0.000	0.	-92	3.36	-50.	0.000
431	8.21	8.21	139	-103	2.62	-69.	0.000	111	-94	2.52	-62.	0.000	103	-91	2.47	-59.	0.000
436	8.21	8.21	119	-138	4.06	-87.	0.000	96	-122	3.66	-76.	0.000	89	-118	3.55	-73.	0.000
440	8.21	8.21	126	-131	3.74	-83.	0.000	103	-116	3.38	-73.	0.000	95	-111	3.26	-70.	0.000
450	8.21	8.21	118	-142	4.20	-88.	0.000	94	-125	3.79	-77.	0.000	87	-120	3.65	-74.	0.000
452	8.21	8.21	133	-144	4.13	-91.	0.000	107	-127	3.76	-79.	0.000	98	-122	3.63	-76.	0.000
457	8.21	8.21	5	-49	1.75	-27.	0.000	8	-49	1.72	-28.	0.000	9	-49	1.71	-28.	0.000
460	8.21	8.21	0.	13	0.00	80.	0.000	0.	5	0.00	31.	0.000	0.	2	0.00	13.	0.000
461	8.21	8.21	34	-42	1.25	-26.	0.000	28	-40	1.22	-24.	0.000	26	-40	1.23	-24.	0.000
467	8.21	8.21	0.	-7	0.27	-4.	0.000	0.	-11	0.38	-6.	0.000	0.	-11	0.40	-6.	0.000
468	8.21	8.21	0.	-5	0.18	-3.	0.000	0.	-9	0.31	-5.	0.000	0.	-10	0.37	-6.	0.000
471	8.21	8.21	0.	-8	0.30	-4.	0.000	0.	-12	0.43	-6.	0.000	0.	-15	0.56	-8.	0.000
476	8.21	8.21	0.	-3	0.10	-2.	0.000	0.	-7	0.25	-4.	0.000	0.	-7	0.25	-4.	0.000
479	8.21	8.21	336	-11	5.00	142.	0.000	289	-12	4.30	110.	0.000	146	-10	2.12	34.	0.000
481	8.21	8.21	485	-16	7.22	203.	0.000	406	-16	6.04	157.	0.000	241	-12	3.58	81.	0.000
487	8.21	8.21	0.	11	0.00	68.	0.000	0.	8	0.00	47.	0.000	0.	-1	0.05	-1.	0.000
489	8.21	8.21	0.	5	0.00	31.	0.000	0.	4	0.00	21.	0.000	0.	-4	0.16	-2.	0.000

MACROGUSCIO asce3

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	:	[cm]	-	forze	:	[daN]
momenti	:	[daNcm/cm]	-	tensioni	:	[daN/cm2]
pesi specifici	:	[daN/cm3]	-	angoli	:	[gradi]
armature	:	[cm2]				

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOX
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	207.5	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	3	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
86	25	3.36	3.38	52.	57.	0.00	0.67	8.10	8.21	0.	191.	0.00	0.56
90	25	3.36	3.38	341.	73.	0.05	0.76	8.10	8.21	0.	163.	0.00	0.48
233	25	3.36	3.38	121.	60.	0.03	0.64	8.10	8.21	375.	141.	0.00	0.53
237	25	3.36	3.38	123.	77.	0.00	0.91	8.10	8.21	639.	169.	0.00	0.69
314	25	3.36	3.38	313.	80.	0.00	0.79	8.10	8.21	0.	123.	0.00	0.36
320	25	3.36	3.38	224.	104.	0.00	0.90	8.10	8.21	0.	114.	0.00	0.34
323	25	3.36	3.38	105.	98.	0.00	0.77	8.10	8.21	0.	108.	0.00	0.32
325	25	3.36	3.38	0.	57.	0.00	0.41	8.10	8.21	0.	175.	0.00	0.51
337	25	3.36	3.38	115.	110.	0.00	0.87	8.10	8.21	0.	187.	0.00	0.55
344	25	3.36	3.38	161.	112.	0.00	0.91	8.10	8.21	0.	193.	0.00	0.57
345	25	3.36	3.38	84.	76.	0.00	0.60	8.10	8.21	0.	167.	0.00	0.49
366	25	3.36	3.38	153.	122.	0.00	1.56	8.10	8.21	8.	251.	0.00	0.74
367	25	3.36	3.38	0.	137.	0.00	1.00	8.10	8.21	616.	128.	0.00	0.56
392	25	3.36	3.38	22.	-3.	0.01	0.01	8.10	8.21	0.	128.	0.00	0.38
398	25	3.36	3.38	122.	154.	0.00	1.18	8.10	8.21	64.	170.	0.00	0.52
402	25	3.36	3.38	135.	68.	0.00	0.58	8.10	8.21	0.	109.	0.00	0.32
404	25	3.36	3.38	11.	160.	0.00	1.14	8.10	8.21	0.	155.	0.00	0.46
416	25	3.36	3.38	166.	105.	0.00	0.86	8.10	8.21	0.	80.	0.00	0.23
421	25	3.36	3.38	171.	135.	0.00	1.08	8.10	8.21	0.	92.	0.00	0.27

422	25	3.36	3.38	0.	60.	0.00	0.43	8.10	8.21	0.	102.	0.00	0.30
441	25	3.36	3.38	113.	156.	0.00	1.27	8.10	8.21	387.	64.	0.00	0.31
442	25	3.36	3.38	27.	133.	0.00	1.33	8.10	8.21	758.	99.	0.05	0.52
472	25	3.36	3.38	133.	102.	0.00	0.86	8.10	8.21	0.	34.	0.01	0.10
473	25	3.36	3.38	254.	107.	0.00	0.94	8.10	8.21	0.	76.	0.01	0.22
480	25	3.36	3.38	404.	95.	0.00	0.96	8.10	8.21	272.	50.	0.05	0.23
482	25	3.36	3.38	0.	118.	0.00	1.24	8.10	8.21	375.	79.	0.03	0.34
488	25	3.36	3.38	0.	39.	0.00	0.46	8.10	8.21	292.	22.	0.00	0.15
490	25	3.36	3.38	149.	68.	0.00	0.67	8.10	8.21	0.	22.	0.00	0.06

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
86	25	3.38	3.36	183.	57.	0.00	0.75	8.21	8.10	370.	191.	0.00	0.66
90	25	3.38	3.36	0.	73.	0.00	0.51	8.21	8.10	387.	60.	0.00	0.60
233	25	3.38	3.36	362.	60.	0.00	0.68	8.21	8.10	0.	141.	0.00	0.45
237	25	3.38	3.36	153.	77.	0.00	0.65	8.21	8.10	0.	131.	0.00	0.49
314	25	3.38	3.36	0.	80.	0.00	0.57	8.21	8.10	364.	123.	0.00	0.46
320	25	3.38	3.36	329.	104.	0.00	0.97	8.21	8.10	203.	114.	0.00	0.39
323	25	3.38	3.36	154.	98.	0.00	0.80	8.21	8.10	288.	108.	0.00	0.40
325	25	3.38	3.36	210.	57.	0.00	0.55	8.21	8.10	584.	175.	0.00	0.68
337	25	3.38	3.36	101.	110.	0.00	0.85	8.21	8.10	423.	187.	0.00	0.67
344	25	3.38	3.36	84.	112.	0.00	0.85	8.21	8.10	432.	193.	0.00	0.69
345	25	3.38	3.36	139.	76.	0.00	0.63	8.21	8.10	434.	167.	0.00	0.61
366	25	3.38	3.36	83.	122.	0.00	1.46	8.21	8.10	0.	188.	0.00	0.73
367	25	3.38	3.36	131.	137.	0.00	1.06	8.21	8.10	0.	157.	0.00	0.45
392	25	3.38	3.36	68.	-3.	0.02	0.05	8.21	8.10	445.	128.	0.00	0.50
398	25	3.38	3.36	63.	154.	0.00	1.13	8.21	8.10	89.	170.	0.00	0.52
402	25	3.38	3.36	52.	68.	0.00	0.51	8.21	8.10	270.	109.	0.00	0.40
404	25	3.38	3.36	34.	160.	0.00	1.15	8.21	8.10	663.	155.	0.00	0.65
416	25	3.38	3.36	133.	105.	0.00	0.83	8.21	8.10	509.	80.	0.00	0.38
421	25	3.38	3.36	234.	135.	0.00	1.12	8.21	8.10	518.	92.	0.00	0.42
422	25	3.38	3.36	113.	60.	0.00	0.50	8.21	8.10	473.	102.	0.00	0.44
441	25	3.38	3.36	90.	156.	0.00	1.31	8.21	8.10	112.	10.	0.00	0.19
442	25	3.38	3.36	425.	133.	0.00	1.24	8.21	8.10	0.	93.	0.04	0.29
472	25	3.38	3.36	90.	102.	0.00	0.90	8.21	8.10	286.	-17.	0.05	0.16
473	25	3.38	3.36	0.	107.	0.00	0.95	8.21	8.10	294.	-15.	0.05	0.34
480	25	3.38	3.36	138.	95.	0.00	0.80	8.21	8.10	88.	-20.	0.02	0.15
482	25	3.38	3.36	447.	118.	0.00	1.15	8.21	8.10	12.	77.	0.02	0.23
488	25	3.38	3.36	231.	39.	0.00	0.45	8.21	8.10	1280.	22.	0.19	0.46
490	25	3.38	3.36	67.	68.	0.00	0.62	8.21	8.10	898.	0.	0.25	0.60

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
86	0.1	0.3	0.2	90	0.3	0.5	0.4	233	0.3	0.2	0.2
237	0.3	0.2	0.3	314	0.2	0.2	0.3	320	0.3	0.0	0.3
323	0.3	0.2	0.4	325	0.1	0.0	0.1	337	0.5	0.4	0.6
344	0.1	0.1	0.2	345	0.1	0.1	0.1	366	0.2	0.1	0.1
367	0.1	0.1	0.1	392	0.2	0.4	0.4	398	0.1	0.1	0.1
402	0.2	0.4	0.5	404	0.1	0.1	0.2	416	0.1	0.4	0.4
421	0.0	0.1	0.1	422	0.0	0.1	0.1	441	0.1	0.1	0.1
442	0.1	0.1	0.1	472	0.1	0.0	0.1	473	0.1	0.0	0.1
480	0.1	0.2	0.1	482	0.1	0.4	0.2	488	0.2	1.5	0.9
490	0.3	1.8	1.1								

MACROGUSCIO asce3

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wKF = " " " " frequente (mm) - " " = 0.2 mm  
 wKP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA						COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wKF	Mom	Nor	σc	σf

86	3.36	3.38	45	-5	0.83	1.	0.000	41	-4	0.70	10.	0.000	37	-5	0.61	0.	0.000
90	3.36	3.38	0.	-3	0.13	-2.	0.000	27	-13	0.74	-5.	0.000	17	-14	0.69	-6.	0.000
233	3.36	3.38	132	7	2.57	307.	0.000	103	6	1.93	249.	0.000	65	3	1.36	135.	0.000
237	3.36	3.38	259	17	4.81	641.	0.000	200	14	3.66	504.	0.000	77	5	1.44	189.	0.000
314	3.36	3.38	161	16	2.24	479.	0.000	116	13	1.17	379.	0.000	97	12	0.56	336.	0.000
320	3.36	3.38	0.	14	0.00	214.	0.000	18	12	0.00	205.	0.000	23	11	0.00	201.	0.000
323	3.36	3.38	0.	2	0.00	23.	0.000	8	7	0.00	119.	0.000	11	8	0.00	134.	0.000
325	3.36	3.38	0.	5	0.00	78.	0.000	0.	6	0.00	96.	0.000	0.	6	0.00	88.	0.000
337	3.36	3.38	0.	0.	0.00	0.	0.000	1	6	0.00	94.	0.000	3	6	0.00	100.	0.000
344	3.36	3.38	0.	-2	0.07	-1.	0.000	0.	3	0.00	39.	0.000	0.	2	0.00	33.	0.000
345	3.36	3.38	0.	-9	0.33	-5.	0.000	0.	-6	0.22	-3.	0.000	0.	3	0.00	38.	0.000
366	3.36	3.38	47	8	0.00	189.	0.000	36	5	0.20	127.	0.000	14	4	0.00	76.	0.000
367	3.36	3.38	93	-33	2.09	-9.	0.000	74	-2	1.63	85.	0.000	28	-6	0.47	0.	0.000
392	3.36	3.38	13	-25	1.08	-13.	0.000	6	-29	1.17	-16.	0.000	4	-29	1.17	-16.	0.000
398	3.36	3.38	17	11	0.00	192.	0.000	12	12	0.00	203.	0.000	10	12	0.00	200.	0.000
402	3.36	3.38	0.	-2	0.09	-1.	0.000	0.	-4	0.14	-2.	0.000	0.	-4	0.15	-2.	0.000
404	3.36	3.38	0.	-47	1.81	-27.	0.000	0.	-32	1.23	-19.	0.000	0.	-26	1.01	-15.	0.000
416	3.36	3.38	0.	-3	0.10	-2.	0.000	0.	-3	0.11	-2.	0.000	0.	-7	0.27	-4.	0.000
421	3.36	3.38	0.	-2	0.07	-1.	0.000	0.	-6	0.24	-4.	0.000	0.	-10	0.40	-6.	0.000
422	3.36	3.38	0.	-15	0.58	-9.	0.000	0.	-12	0.44	-7.	0.000	0.	-4	0.17	-3.	0.000
441	3.36	3.38	55	26	0.00	481.	0.000	46	21	0.00	381.	0.000	3	6	0.00	99.	0.000
442	3.36	3.38	195	-3	4.32	239.	0.000	162	-8	3.38	116.	0.000	105	-10	1.88	30.	0.000
472	3.36	3.38	0.	22	0.00	327.	0.000	0.	17	0.00	260.	0.000	0.	8	0.00	123.	0.000
473	3.36	3.38	0.	-6	0.23	-3.	0.000	0.	-5	0.18	-3.	0.000	0.	-7	0.28	-4.	0.000
480	3.36	3.38	100	-3	2.18	102.	0.000	64	-1	1.43	83.	0.000	47	-1	1.02	49.	0.000
482	3.36	3.38	251	7	5.40	465.	0.000	207	6	4.45	385.	0.000	136	7	2.75	299.	0.000
488	3.36	3.38	4	3	0.00	48.	0.000	0.	2	0.00	33.	0.000	0.	1	0.00	12.	0.000
490	3.36	3.38	0.	6	0.00	92.	0.000	0.	5	0.00	78.	0.000	82	3	1.71	168.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
86	8.10	8.21	107	-216	8.73	-108.	0.000	81	-183	7.34	-93.	0.000	38	-180	6.89	-95.	0.000
90	8.10	8.21	95	-211	8.45	-106.	0.000	99	-193	7.83	-96.	0.000	29	-193	7.27	-103.	0.000
233	8.10	8.21	284	-188	9.18	-76.	0.000	220	-175	8.16	-75.	0.000	105	-174	7.20	-85.	0.000
237	8.10	8.21	522	-195	11.38	-58.	0.000	410	-188	10.23	-65.	0.000	175	-185	8.18	-85.	0.000
314	8.10	8.21	0.	-179	6.51	-98.	0.000	0.	-157	5.71	-86.	0.000	0.	-151	5.50	-82.	0.000
320	8.10	8.21	11	-173	6.39	-94.	0.000	0.	-143	5.20	-78.	0.000	0.	-135	4.94	-74.	0.000
323	8.10	8.21	0.	-178	6.47	-97.	0.000	0.	-148	5.40	-81.	0.000	0.	-141	5.14	-77.	0.000
325	8.10	8.21	0.	-190	6.93	-104.	0.000	0.	-158	5.75	-86.	0.000	0.	-148	5.39	-81.	0.000
337	8.10	8.21	0.	-121	4.40	-66.	0.000	0.	-118	4.30	-65.	0.000	0.	-117	4.27	-64.	0.000
344	8.10	8.21	0.	-128	4.67	-70.	0.000	0.	-125	4.54	-68.	0.000	0.	-123	4.49	-67.	0.000
345	8.10	8.21	0.	-162	5.90	-88.	0.000	0.	-147	5.35	-80.	0.000	0.	-142	5.17	-78.	0.000
366	8.10	8.21	206	-129	6.38	-51.	0.000	160	-121	5.73	-51.	0.000	99	-105	4.62	-48.	0.000
367	8.10	8.21	322	-133	7.49	-42.	0.000	258	-134	6.98	-49.	0.000	131	-133	5.91	-60.	0.000
392	8.10	8.21	0.	-117	4.26	-64.	0.000	0.	-111	4.03	-61.	0.000	0.	-109	3.96	-59.	0.000
398	8.10	8.21	0.	-105	3.81	-57.	0.000	0.	-81	2.94	-44.	0.000	0.	-75	2.72	-41.	0.000
402	8.10	8.21	0.	-107	3.88	-58.	0.000	0.	-94	3.42	-51.	0.000	0.	-91	3.30	-49.	0.000
404	8.10	8.21	0.	-82	2.99	-45.	0.000	0.	-79	2.87	-43.	0.000	0.	-78	2.83	-42.	0.000
416	8.10	8.21	0.	-69	2.50	-37.	0.000	0.	-67	2.46	-37.	0.000	0.	-67	2.45	-37.	0.000
421	8.10	8.21	0.	-62	2.28	-34.	0.000	0.	-62	2.27	-34.	0.000	0.	-62	2.27	-34.	0.000
422	8.10	8.21	0.	-79	2.88	-43.	0.000	0.	-76	2.77	-42.	0.000	0.	-75	2.74	-41.	0.000
441	8.10	8.21	234	-35	3.59	1.	0.000	186	-45	3.18	-7.	0.000	99	-39	2.22	-12.	0.000
442	8.10	8.21	462	-42	6.61	74.	0.000	372	-51	5.78	2.	0.000	186	-53	3.47	-12.	0.000
472	8.10	8.21	0.	-62	2.25	-34.	0.000	0.	-55	2.00	-30.	0.000	0.	-49	1.77	-27.	0.000
473	8.10	8.21	0.	-23	0.84	-13.	0.000	0.	-24	0.86	-13.	0.000	0.	-36	1.32	-20.	0.000
480	8.10	8.21	252	-31	4.15	3.	0.000	212	-28	3.38	2.	0.000	115	-24	1.84	-3.	0.000
482	8.10	8.21	439	-23	6.52	142.	0.000	356	-26	5.20	82.	0.000	229	-21	3.28	36.	0.000
488	8.10	8.21	0.	6	0.00	34.	0.000	0.	5	0.00	29.	0.000	0.	-2	0.09	-1.	0.000
490	8.10	8.21	0.	3	0.00	17.	0.000	0.	2	0.00	12.	0.000	0.	-5	0.17	-3.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
86	3.38	3.36	12	-5	0.10	-4.	0.000	0.	-4	0.15	-2.	0.000	0.	-5	0.21	-3.	0.000
90	3.38	3.36	31	-3	0.61	1.	0.000	10	-13	0.40	-8.	0.000	16	-14	0.38	-10.	0.000
233	3.38	3.36	0.	7	0.00	110.	0.000	0.	6	0.00	96.	0.000	0.	3	0.00	38.	0.000
237	3.38	3.36	0.	17	0.00	252.	0.000	0.	14	0.00	203.	0.000	0.	5	0.00	73.	0.000
314	3.38	3.36	8	16	0.00	244.	0.000	12	13	0.00	217.	0.000	16	12	0.00	208.	0.000
320	3.38	3.36	85	14	0.00	344.	0.000	37	12	0.00	233.	0.000	21	11	0.00	196.	0.000
323	3.38	3.36	10	2	0.00	38.	0.000	0.	7	0.00	106.	0.000	0.	8	0.00	115.	0.000
325	3.38	3.36	133	5	2.75	271.	0.000	102	6	1.91	246.	0.000	94	6	1.77	227.	0.000
337	3.38	3.36	14	0.	0.32	20.	0.000	2	6	0.00	95.	0.000	3	6	0.00	99.	0.000
344	3.38	3.36	17	-2	0.37	0.	0.000	10	3	0.00	54.	0.000	18	2	0.11	60.	0.000
345	3.38	3.36	63	-9	1.05	0.	0.000	45	-6	0.78	0.	0.000	48	3	0.94	108.	0.000
366	3.38	3.36	0.	8	0.00	114.	0.000	0.	5	0.00	69.	0.000	0.	4	0.00	54.	0.000
367	3.38	3.36	0.	-33	1.26	-19.	0.000	0.	-2	0.06	-1.	0.000	0.	-6	0.22	-3.	0.000
392	3.38	3.36	45	-25	0.56	-19.	0.000	32	-29	0.82	-20.	0.000	28	-29	0.87	-20.	0.000
398	3.38	3.36	25	11	0.00	203.	0.000	18	12	0.00	212.	0.000	16	12	0.00	208.	0.000
402	3.38	3.36	26	-2	0.46	7.	0.000	20	-4	0.34	0.	0.000	19	-4	0.02	-4.	0.000
404	3.38	3.36	92	-47	0.98	-37.	0.000	77	-32	0.54	-26.	0.000	72	-26	0.36	-22.	0.000
416	3.38	3.36	55	-3	1.14	41.	0.000	44	-3	0.87	25.	0.000	50	-7	0.83	0.	0.000
421	3.38	3.36	65	-2	1.41	65.	0.000	55	-6	1.06	1.	0.000	69	-10	1.13	0.	0.000
422	3.38	3.36	57	-15	0.07	-15.	0.000	46	-12	0.03	-11.	0.000	47	-4	0.83	12.	0.000
441	3.38	3.36	0.	26	0.00	391.	0.000	0.	21	0.00	306.	0.000	11	6	0.00	112.	0.000
442	3.38	3.36	15	-3	0.03	-3.	0.000	12	-8	0.21	-6.	0.000	0.	-10	0.37	-6.	0.000

472	3.38	3.36	70	22	0.00	433.	0.000	58	17	0.00	347.	0.000	20	8	0.00	154.	0.000
473	3.38	3.36	192	-6	4.17	189.	0.000	161	-5	3.50	161.	0.000	81	-7	1.45	25.	0.000
480	3.38	3.36	0.	-3	0.11	-2.	0.000	0.	-1	0.03	0.	0.000	9	-1	0.16	0.	0.000
482	3.38	3.36	0.	7	0.00	97.	0.000	0.	6	0.00	81.	0.000	21	7	0.00	129.	0.000
488	3.38	3.36	0.	3	0.00	42.	0.000	12	2	0.00	52.	0.000	87	1	1.91	137.	0.000
490	3.38	3.36	11	6	0.00	110.	0.000	15	5	0.00	102.	0.000	174	3	3.78	298.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	WkR	Mom	Nor	σc	σf	WkF	Mom	Nor	σc	σf	WkP
86	8.21	8.10	0.	-216	7.85	-118.	0.000	0.	-183	6.68	-100.	0.000	0.	-180	6.57	-99.	0.000
90	8.21	8.10	0.	-211	7.68	-115.	0.000	0.	-193	7.02	-105.	0.000	0.	-193	7.04	-106.	0.000
233	8.21	8.10	0.	-188	6.85	-103.	0.000	0.	-175	6.36	-95.	0.000	0.	-174	6.34	-95.	0.000
237	8.21	8.10	0.	-195	7.10	-106.	0.000	0.	-188	6.87	-103.	0.000	0.	-185	6.74	-101.	0.000
314	8.21	8.10	169	-179	5.12	-113.	0.000	139	-157	4.57	-99.	0.000	129	-151	4.44	-95.	0.000
320	8.21	8.10	29	-173	6.06	-97.	0.000	23	-143	5.01	-80.	0.000	22	-135	4.76	-76.	0.000
323	8.21	8.10	99	-178	5.66	-106.	0.000	81	-148	4.74	-89.	0.000	75	-141	4.52	-84.	0.000
325	8.21	8.10	309	-190	4.39	-133.	0.000	259	-158	3.62	-110.	0.000	240	-148	3.42	-103.	0.000
337	8.21	8.10	130	-121	3.34	-78.	0.000	104	-118	3.45	-74.	0.000	96	-117	3.49	-73.	0.000
344	8.21	8.10	148	-128	3.45	-84.	0.000	121	-125	3.55	-79.	0.000	111	-123	3.57	-78.	0.000
345	8.21	8.10	200	-162	4.26	-107.	0.000	167	-147	3.97	-96.	0.000	155	-142	3.89	-92.	0.000
366	8.21	8.10	0.	-129	4.69	-70.	0.000	0.	-121	4.42	-66.	0.000	0.	-105	3.81	-57.	0.000
367	8.21	8.10	0.	-133	4.84	-73.	0.000	0.	-134	4.87	-73.	0.000	0.	-133	4.83	-72.	0.000
392	8.21	8.10	163	-117	2.92	-79.	0.000	126	-111	3.00	-72.	0.000	114	-109	3.02	-70.	0.000
398	8.21	8.10	78	-105	3.17	-64.	0.000	62	-81	2.43	-50.	0.000	57	-75	2.25	-46.	0.000
402	8.21	8.10	131	-107	2.81	-70.	0.000	107	-94	2.54	-61.	0.000	100	-91	2.48	-59.	0.000
404	8.21	8.10	285	-82	0.65	-71.	0.000	235	-79	0.94	-65.	0.000	219	-78	1.03	-63.	0.000
416	8.21	8.10	264	-69	0.33	-62.	0.000	221	-67	0.64	-57.	0.000	208	-67	0.74	-56.	0.000
421	8.21	8.10	275	-62	0.02	-60.	0.000	229	-62	0.39	-56.	0.000	215	-62	0.50	-54.	0.000
422	8.21	8.10	248	-79	0.85	-66.	0.000	205	-76	1.08	-61.	0.000	191	-75	1.17	-59.	0.000
441	8.21	8.10	0.	-35	1.29	-19.	0.000	0.	-45	1.65	-25.	0.000	0.	-39	1.41	-21.	0.000
442	8.21	8.10	0.	-42	1.52	-23.	0.000	0.	-51	1.87	-28.	0.000	0.	-53	1.95	-29.	0.000
472	8.21	8.10	199	-62	0.62	-52.	0.000	164	-55	0.65	-45.	0.000	113	-49	0.85	-37.	0.000
473	8.21	8.10	416	-23	6.16	128.	0.000	335	-24	4.90	79.	0.000	187	-36	0.21	-37.	0.000
480	8.21	8.10	0.	-31	1.12	-17.	0.000	0.	-28	1.00	-15.	0.000	0.	-24	0.89	-13.	0.000
482	8.21	8.10	0.	-23	0.85	-13.	0.000	0.	-26	0.94	-14.	0.000	0.	-21	0.77	-12.	0.000
488	8.21	8.10	1000	6	14.35	645.	0.000	839	5	12.05	542.	0.000	413	-2	6.04	239.	0.000
490	8.21	8.10	1617	3	23.37	1007.	0.049	1356	2	19.61	842.	0.011	682	-5	9.99	390.	0.000

MACROGUSCIO asce4

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	:	[cm]	-	forze	:	[daN]
momenti	:	[daNcm/cm]	-	tensioni	:	[daN/cm2]
pesi specifici	:	[daN/cm3]	-	angoli	:	[gradi]
armature	:	[cm2]				

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	207.5	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	3	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
93	25	3.36	3.39	192.	56.	0.00	0.75	8.06	8.16	413.	202.	0.00	0.72
94	25	3.36	3.39	70.	149.	0.00	1.14	8.06	8.16	340.	271.	0.00	0.90
240	25	3.36	3.39	203.	61.	0.00	0.66	8.06	8.16	138.	248.	0.00	0.77
241	25	3.36	3.39	47.	63.	0.01	0.53	8.06	8.16	0.	138.	0.00	0.41
328	25	3.36	3.39	233.	67.	0.00	0.78	8.06	8.16	470.	219.	0.00	0.79
329	25	3.36	3.39	0.	58.	0.00	0.69	8.06	8.16	350.	152.	0.00	0.55
368	25	3.36	3.39	0.	118.	0.00	1.08	8.06	8.16	0.	145.	0.00	0.43
369	25	3.36	3.39	14.	83.	0.00	0.60	8.06	8.16	0.	94.	0.00	0.28
406	25	3.36	3.39	317.	169.	0.00	1.58	8.06	8.16	525.	208.	0.00	0.77
407	25	3.36	3.39	13.	213.	0.00	1.52	8.06	8.16	580.	136.	0.00	0.58
443	25	3.36	3.39	0.	186.	0.00	1.32	8.06	8.16	0.	99.	0.00	0.29
444	25	3.36	3.39	11.	172.	0.00	1.38	8.06	8.16	0.	114.	0.00	0.34
474	25	3.36	3.39	277.	123.	0.00	1.23	8.06	8.16	605.	75.	0.05	0.44

475	25	3.36	3.39	106.	122.	0.00	1.06	8.06	8.16	445.	47.	0.05	0.30
483	25	3.36	3.39	0.	132.	0.00	1.06	8.06	8.16	0.	96.	0.00	0.28
484	25	3.36	3.39	198.	119.	0.00	0.99	8.06	8.16	0.	47.	0.00	0.14
491	25	3.36	3.39	0.	49.	0.00	0.54	8.06	8.16	447.	26.	0.02	0.21
492	25	3.36	3.39	15.	61.	0.00	0.67	8.06	8.16	605.	26.	0.04	0.26

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
93	25	3.39	3.36	0.	56.	0.00	0.67	8.16	8.06	0.	202.	0.00	0.59
94	25	3.39	3.36	30.	149.	0.00	1.08	8.16	8.06	0.	121.	0.00	0.79
240	25	3.39	3.36	76.	61.	0.00	0.58	8.16	8.06	41.	248.	0.00	0.74
241	25	3.39	3.36	77.	63.	0.04	0.71	8.16	8.06	0.	119.	0.00	0.44
328	25	3.39	3.36	0.	67.	0.00	0.84	8.16	8.06	0.	219.	0.00	0.64
329	25	3.39	3.36	60.	58.	0.00	0.77	8.16	8.06	0.	124.	0.00	0.44
368	25	3.39	3.36	263.	118.	0.00	1.20	8.16	8.06	480.	145.	0.00	0.57
369	25	3.39	3.36	43.	83.	0.00	0.61	8.16	8.06	320.	88.	0.00	0.38
406	25	3.39	3.36	0.	169.	0.00	1.69	8.16	8.06	0.	217.	0.00	0.63
407	25	3.39	3.36	79.	213.	0.00	1.56	8.16	8.06	0.	93.	0.00	0.40
443	25	3.39	3.36	290.	186.	0.00	1.52	8.16	8.06	443.	99.	0.06	0.48
444	25	3.39	3.36	110.	172.	0.00	1.47	8.16	8.06	338.	7.	0.03	0.48
474	25	3.39	3.36	0.	123.	0.00	1.17	8.16	8.06	0.	102.	0.01	0.30
475	25	3.39	3.36	11.	122.	0.00	1.06	8.16	8.06	0.	-33.	0.02	0.24
483	25	3.39	3.36	270.	132.	0.00	1.12	8.16	8.06	222.	93.	0.00	0.36
484	25	3.39	3.36	44.	119.	0.00	1.03	8.16	8.06	158.	47.	0.03	0.19
491	25	3.39	3.36	143.	49.	0.00	0.54	8.16	8.06	0.	18.	0.00	0.08
492	25	3.39	3.36	0.	61.	0.00	0.70	8.16	8.06	0.	0.	0.00	0.07

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
93	0.2	0.3	0.2	94	0.2	0.3	0.2	240	0.2	0.1	0.2
241	0.3	0.0	0.3	328	0.2	0.0	0.2	329	0.3	0.0	0.2
368	0.1	0.1	0.1	369	0.1	0.1	0.1	406	0.1	0.1	0.1
407	0.1	0.0	0.1	443	0.1	0.0	0.0	444	0.0	0.0	0.0
474	0.1	0.0	0.1	475	0.1	0.0	0.0	483	0.1	0.1	0.1
484	0.1	0.1	0.1	491	0.1	0.8	0.5	492	0.2	0.8	0.5

MACROGUSCIO asce4

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
93	3.36	3.39	0.	-10	0.38	-6.	0.000	0.	-10	0.40	-6.	0.000	0.	-3	0.13	-2.	0.000
94	3.36	3.39	0.	-21	0.79	-12.	0.000	0.	-16	0.61	-9.	0.000	13	-8	0.42	-3.	0.000
240	3.36	3.39	0.	-27	1.04	-16.	0.000	0.	-30	1.15	-17.	0.000	0.	-22	0.85	-13.	0.000
241	3.36	3.39	129	-27	2.18	-2.	0.000	90	-32	2.04	-9.	0.000	64	-20	1.34	-5.	0.000
328	3.36	3.39	0.	0.	0.01	0.	0.000	0.	0.	0.00	0.	0.000	0.	-14	0.53	-8.	0.000
329	3.36	3.39	186	-30	3.04	0.	0.000	139	-28	2.32	-2.	0.000	71	-16	1.23	-2.	0.000
368	3.36	3.39	0.	-22	0.84	-13.	0.000	0.	-21	0.79	-12.	0.000	0.	-9	0.34	-5.	0.000
369	3.36	3.39	0.	-23	0.89	-13.	0.000	0.	-21	0.79	-12.	0.000	0.	-9	0.36	-5.	0.000
406	3.36	3.39	82	-11	1.36	1.	0.000	66	-11	1.07	0.	0.000	55	-6	1.04	1.	0.000
407	3.36	3.39	35	-8	0.62	-1.	0.000	31	-8	0.57	-1.	0.000	17	-8	0.45	-3.	0.000
443	3.36	3.39	0.	14	0.00	216.	0.000	0.	10	0.00	143.	0.000	0.	0.	0.00	3.	0.000
444	3.36	3.39	0.	-6	0.22	-3.	0.000	0.	-5	0.21	-3.	0.000	0.	-3	0.13	-2.	0.000
474	3.36	3.39	74	41	0.00	722.	0.000	61	33	0.00	592.	0.000	66	21	0.00	410.	0.000
475	3.36	3.39	65	3	1.35	134.	0.000	53	2	1.12	105.	0.000	40	-1	0.87	40.	0.000
483	3.36	3.39	0.	25	0.00	367.	0.000	0.	19	0.00	280.	0.000	7	18	0.00	279.	0.000
484	3.36	3.39	0.	2	0.00	25.	0.000	0.	1	0.00	18.	0.000	0.	4	0.00	57.	0.000



491	3.36	3.39	0.	7	0.00	112.	0.000	0.	6	0.00	88.	0.000	0.	8	0.00	115.	0.000
492	3.36	3.39	0.	17	0.00	247.	0.000	0.	14	0.00	201.	0.000	0.	6	0.00	88.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
93	8.06	8.16	0.	-208	7.58	-114.	0.000	0.	-182	6.62	-99.	0.000	0.	-176	6.41	-96.	0.000
94	8.06	8.16	0.	-216	7.86	-118.	0.000	0.	-187	6.82	-102.	0.000	0.	-185	6.76	-101.	0.000
240	8.06	8.16	0.	-236	8.59	-129.	0.000	0.	-208	7.59	-114.	0.000	0.	-196	7.16	-107.	0.000
241	8.06	8.16	0.	-223	8.12	-122.	0.000	0.	-199	7.27	-109.	0.000	0.	-190	6.93	-104.	0.000
328	8.06	8.16	95	-184	7.49	-92.	0.000	59	-192	7.50	-100.	0.000	40	-183	7.01	-97.	0.000
329	8.06	8.16	120	-189	7.86	-92.	0.000	100	-172	7.08	-84.	0.000	56	-170	6.67	-88.	0.000
368	8.06	8.16	0.	-158	5.77	-87.	0.000	0.	-154	5.63	-84.	0.000	0.	-150	5.47	-82.	0.000
369	8.06	8.16	0.	-153	5.58	-84.	0.000	0.	-142	5.18	-78.	0.000	0.	-148	5.39	-81.	0.000
406	8.06	8.16	410	-88	6.57	-10.	0.000	311	-89	5.81	-20.	0.000	216	-100	5.40	-34.	0.000
407	8.06	8.16	323	-123	7.13	-37.	0.000	249	-116	6.26	-40.	0.000	185	-108	5.47	-42.	0.000
443	8.06	8.16	0.	-87	3.17	-47.	0.000	0.	-82	3.01	-45.	0.000	0.	-73	2.67	-40.	0.000
444	8.06	8.16	0.	-97	3.53	-53.	0.000	0.	-86	3.12	-47.	0.000	0.	-75	2.74	-41.	0.000
474	8.06	8.16	450	10	6.26	339.	0.000	355	2	5.13	236.	0.000	210	-20	3.00	30.	0.000
475	8.06	8.16	385	-66	5.98	1.	0.000	309	-57	4.62	-2.	0.000	196	-53	3.54	-10.	0.000
483	8.06	8.16	0.	-4	0.15	-2.	0.000	0.	-6	0.22	-3.	0.000	0.	-6	0.22	-3.	0.000
484	8.06	8.16	0.	-30	1.09	-16.	0.000	0.	-27	0.99	-15.	0.000	0.	-20	0.74	-11.	0.000
491	8.06	8.16	442	16	5.83	376.	0.000	357	13	4.70	307.	0.000	154	2	2.19	109.	0.000
492	8.06	8.16	474	20	6.13	420.	0.000	390	16	5.06	344.	0.000	201	3	2.84	143.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
93	3.39	3.36	71	-10	1.18	0.	0.000	62	-10	1.02	0.	0.000	26	-3	0.45	0.	0.000
94	3.39	3.36	98	-21	0.09	-22.	0.000	78	-16	0.09	-17.	0.000	31	-8	0.03	-8.	0.000
240	3.39	3.36	98	-27	0.15	-26.	0.000	59	-30	0.62	-23.	0.000	58	-22	0.33	-19.	0.000
241	3.39	3.36	0.	-27	1.02	-15.	0.000	0.	-32	1.23	-18.	0.000	0.	-20	0.77	-11.	0.000
328	3.39	3.36	51	0.	1.14	71.	0.000	47	0.	1.03	67.	0.000	50	-14	0.08	-13.	0.000
329	3.39	3.36	0.	-30	1.17	-18.	0.000	0.	-28	1.07	-16.	0.000	0.	-16	0.60	-9.	0.000
368	3.39	3.36	106	-22	0.11	-23.	0.000	87	-21	0.01	-21.	0.000	92	-9	1.61	23.	0.000
369	3.39	3.36	52	-23	0.43	-19.	0.000	42	-21	0.41	-16.	0.000	31	-9	0.08	-9.	0.000
406	3.39	3.36	0.	-11	0.43	-6.	0.000	0.	-11	0.42	-6.	0.000	0.	-6	0.24	-4.	0.000
407	3.39	3.36	0.	-8	0.30	-5.	0.000	0.	-8	0.29	-4.	0.000	0.	-8	0.30	-4.	0.000
443	3.39	3.36	141	14	1.80	427.	0.000	117	10	1.92	317.	0.000	77	0.	1.70	114.	0.000
444	3.39	3.36	51	-6	1.00	1.	0.000	40	-5	0.67	0.	0.000	51	-3	1.01	27.	0.000
474	3.39	3.36	0.	41	0.00	600.	0.000	0.	33	0.00	493.	0.000	0.	21	0.00	303.	0.000
475	3.39	3.36	0.	3	0.00	38.	0.000	0.	2	0.00	27.	0.000	0.	-1	0.04	-1.	0.000
483	3.39	3.36	94	25	0.00	509.	0.000	80	19	0.00	401.	0.000	33	18	0.00	317.	0.000
484	3.39	3.36	96	2	2.09	164.	0.000	84	1	1.83	138.	0.000	39	4	0.54	115.	0.000
491	3.39	3.36	59	7	0.34	201.	0.000	50	6	0.44	163.	0.000	33	8	0.00	165.	0.000
492	3.39	3.36	58	17	0.00	335.	0.000	50	14	0.00	277.	0.000	30	6	0.00	134.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
93	8.16	8.06	187	-208	6.04	-131.	0.000	173	-182	5.20	-115.	0.000	106	-176	5.54	-106.	0.000
94	8.16	8.06	216	-216	6.08	-138.	0.000	198	-187	5.20	-121.	0.000	109	-185	5.86	-112.	0.000
240	8.16	8.06	126	-236	7.56	-141.	0.000	109	-208	6.69	-124.	0.000	76	-196	6.54	-115.	0.000
241	8.16	8.06	76	-223	7.49	-129.	0.000	65	-199	6.73	-115.	0.000	28	-190	6.70	-107.	0.000
328	8.16	8.06	0.	-184	6.70	-101.	0.000	0.	-192	7.02	-105.	0.000	0.	-183	6.68	-100.	0.000
329	8.16	8.06	0.	-189	6.87	-103.	0.000	0.	-172	6.26	-94.	0.000	0.	-170	6.21	-93.	0.000
368	8.16	8.06	418	-158	2.34	-126.	0.000	328	-154	2.93	-115.	0.000	209	-150	3.75	-102.	0.000
369	8.16	8.06	361	-153	2.61	-117.	0.000	296	-142	2.74	-105.	0.000	192	-148	3.81	-99.	0.000
406	8.16	8.06	0.	-88	3.21	-48.	0.000	0.	-89	3.26	-49.	0.000	0.	-100	3.63	-54.	0.000
407	8.16	8.06	0.	-123	4.49	-67.	0.000	0.	-116	4.21	-63.	0.000	0.	-108	3.95	-59.	0.000
443	8.16	8.06	551	-87	8.48	2.	0.000	436	-82	0.58	-86.	0.000	257	-73	0.56	-64.	0.000
444	8.16	8.06	450	-97	0.16	-95.	0.000	352	-86	0.23	-80.	0.000	228	-75	0.87	-62.	0.000
474	8.16	8.06	0.	10	0.00	59.	0.000	0.	2	0.00	14.	0.000	0.	-20	0.74	-11.	0.000
475	8.16	8.06	0.	-66	2.42	-36.	0.000	0.	-57	2.09	-31.	0.000	0.	-53	1.92	-29.	0.000
483	8.16	8.06	131	-4	1.95	57.	0.000	101	-6	1.50	29.	0.000	66	-6	0.94	11.	0.000
484	8.16	8.06	133	-30	0.00	-29.	0.000	113	-27	0.06	-25.	0.000	70	-20	0.16	-18.	0.000
491	8.16	8.06	0.	16	0.00	100.	0.000	0.	13	0.00	83.	0.000	0.	2	0.00	13.	0.000
492	8.16	8.06	0.	20	0.00	122.	0.000	0.	16	0.00	99.	0.000	0.	3	0.00	18.	0.000

MACROGUSCIO muro\_1

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 1 SLU

2 SLU VENTOX  
 3 SLU VENTOY  
 6 SLU con SISMAX PRINC  
 7 SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
24	30	2.62	2.62	0.	-1.	0.06	0.29	4.55	4.55	353.	-13.	0.06	0.14
25	30	2.62	2.62	975.	-12.	0.19	0.67	4.55	4.55	329.	-2.	0.05	0.14
26	30	2.62	2.62	81.	-18.	0.02	0.07	4.55	4.55	0.	-61.	0.03	-0.03
27	30	2.62	2.62	0.	-6.	0.07	0.25	4.55	4.55	345.	-42.	0.07	0.11
28	30	2.62	2.62	707.	-4.	0.14	0.51	4.55	4.55	167.	-17.	0.03	0.06
29	30	2.62	2.62	667.	-29.	0.23	0.78	4.55	4.55	689.	-23.	0.11	0.27
30	30	2.62	2.62	684.	-9.	0.13	0.47	4.55	4.55	495.	-32.	0.09	0.19
171	30	2.62	2.62	0.	18.	0.13	0.44	4.55	4.55	984.	-4.	0.14	0.41
172	30	2.62	2.62	1019.	-7.	0.24	0.84	4.55	4.55	627.	-14.	0.10	0.25
173	30	2.62	2.62	490.	-6.	0.09	0.34	4.55	4.55	991.	-41.	0.16	0.37
174	30	2.62	2.62	0.	-2.	0.14	0.52	4.55	4.55	1164.	-30.	0.18	0.45
175	30	2.62	2.62	1170.	2.	0.24	1.07	4.55	4.55	933.	-6.	0.14	0.39
176	30	2.62	2.62	1874.	-47.	0.38	1.19	4.55	4.55	923.	-4.	0.13	0.39
177	30	2.62	2.62	716.	-27.	0.15	0.45	4.55	4.55	1454.	-4.	0.21	0.61

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
24	30	2.62	2.62	584.	-1.	0.24	0.94	4.55	4.55	389.	-30.	0.15	0.38
25	30	2.62	2.62	0.	-12.	0.05	0.15	4.55	4.55	1305.	-13.	0.26	0.67
26	30	2.62	2.62	1.	-18.	0.12	0.45	4.55	4.55	1792.	-36.	0.35	0.85
27	30	2.62	2.62	1030.	-6.	0.21	0.74	4.55	4.55	2268.	-55.	0.41	1.02
28	30	2.62	2.62	27.	-4.	0.03	0.10	4.55	4.55	1333.	-9.	0.28	0.75
29	30	2.62	2.62	0.	-29.	0.05	0.19	4.55	4.55	1297.	-20.	0.27	0.75
30	30	2.62	2.62	1217.	-9.	0.30	1.12	4.55	4.55	1150.	-23.	0.19	0.50
171	30	2.62	2.62	2173.	18.	0.39	1.74	4.55	4.55	1307.	0.	0.22	0.65
172	30	2.62	2.62	0.	-7.	0.01	-0.01	4.55	4.55	597.	1.	0.09	0.27
173	30	2.62	2.62	363.	-6.	0.26	0.97	4.55	4.55	0.	-31.	0.07	0.13
174	30	2.62	2.62	1825.	-2.	0.34	1.34	4.55	4.55	255.	-64.	0.13	0.34
175	30	2.62	2.62	0.	2.	0.00	0.06	4.55	4.55	147.	-6.	0.02	0.06
176	30	2.62	2.62	0.	-47.	0.02	-0.02	4.55	4.55	0.	-2.	0.10	0.27
177	30	2.62	2.62	1264.	-27.	2.53	29.02	4.55	4.55	1088.	-5.	0.22	0.62

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
24	0.8	0.5	0.6	25	0.0	1.0	0.8	26	0.4	1.0	0.9
27	0.5	1.1	1.1	28	0.1	1.2	1.2	29	0.1	1.2	1.0
30	0.9	0.5	0.6	171	1.2	0.7	1.0	172	0.2	0.2	0.2
173	0.9	0.7	0.8	174	1.0	0.7	0.8	175	0.2	0.2	0.2
176	0.3	0.1	0.2	177	1.3	0.7	1.1				

MACROGUSCIO muro\_10

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 1 SLU  
 2 SLU VENTOX  
 3 SLU VENTOY  
 6 SLU con SISMAX PRINC  
 7 SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

INFERIORE ORIZZONTALE								INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
80	30	3.50	3.50	0.	54.	0.00	0.55	4.54	4.55	128.	-64.	0.05	0.07
82	30	3.50	3.50	650.	51.	0.00	0.70	4.54	4.55	319.	-32.	0.06	0.11
88	30	3.50	3.50	264.	-2.	0.06	0.15	4.54	4.55	78.	-40.	0.03	-0.02
92	30	3.50	3.50	0.	28.	0.00	0.32	4.54	4.55	0.	-121.	0.05	-0.05
96	30	3.50	3.50	0.	58.	0.00	0.66	4.54	4.55	0.	-124.	0.06	-0.06
98	30	3.50	3.50	1044.	31.	0.03	0.90	4.54	4.55	614.	-29.	0.10	0.23
100	30	3.50	3.50	440.	45.	0.00	0.75	4.54	4.55	151.	-25.	0.03	0.05
102	30	3.50	3.50	450.	22.	0.11	0.80	4.54	4.55	157.	-18.	0.03	0.06
104	30	3.50	3.50	1220.	30.	0.18	1.05	4.54	4.55	1013.	-6.	0.15	0.42
106	30	3.50	3.50	910.	44.	0.00	0.80	4.54	4.55	992.	5.	0.12	0.45
227	30	3.50	3.50	0.	65.	0.00	0.78	4.54	4.55	871.	-15.	0.13	0.35
229	30	3.50	3.50	891.	25.	0.14	0.78	4.54	4.55	554.	-5.	0.08	0.23
235	30	3.50	3.50	766.	29.	0.10	0.90	4.54	4.55	408.	-1.	0.06	0.17
239	30	3.50	3.50	0.	58.	0.00	0.79	4.54	4.55	338.	-105.	0.09	0.15
243	30	3.50	6.99	0.	103.	0.00	0.93	4.54	4.55	1144.	-89.	0.20	0.40
245	30	3.50	3.50	1536.	59.	0.21	1.65	4.54	4.55	1228.	-14.	0.18	0.50
247	30	3.50	3.50	1808.	69.	0.24	1.76	4.54	4.55	852.	-10.	0.13	0.35
249	30	3.50	3.50	1913.	77.	0.82	8.77	4.54	4.55	949.	-19.	0.14	0.38
251	30	3.50	3.50	2225.	78.	1.01	14.91	4.54	4.55	1138.	-19.	0.17	0.54
253	30	3.50	6.99	790.	90.	0.00	1.30	4.54	4.55	1691.	-19.	0.25	0.68

SUPERIORE ORIZZONTALE								SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
80	30	3.50	3.50	798.	54.	0.00	1.04	4.55	4.54	626.	-26.	0.12	0.25
82	30	3.50	3.50	191.	51.	0.00	0.46	4.55	4.54	850.	-41.	0.17	0.41
88	30	3.50	3.50	0.	-2.	0.02	0.02	4.55	4.54	872.	-40.	0.18	0.44
92	30	3.50	3.50	313.	28.	0.03	0.67	4.55	4.54	1121.	-83.	0.29	0.55
96	30	3.50	3.50	1273.	58.	0.03	1.21	4.55	4.54	1729.	-124.	0.38	0.76
98	30	3.50	3.50	545.	31.	0.00	0.76	4.55	4.54	1723.	-41.	0.36	0.89
100	30	3.50	3.50	0.	45.	0.00	0.37	4.55	4.54	1343.	-16.	0.31	0.80
102	30	3.50	3.50	0.	22.	0.00	0.16	4.55	4.54	1121.	-35.	0.31	0.87
104	30	3.50	3.50	802.	30.	0.01	0.69	4.55	4.54	1585.	-6.	0.30	0.88
106	30	3.50	3.50	1546.	44.	0.15	1.27	4.55	4.54	1529.	0.	0.22	0.68
227	30	3.50	3.50	1561.	65.	0.06	1.39	4.55	4.54	276.	34.	0.12	0.31
229	30	3.50	3.50	0.	25.	0.00	0.23	4.55	4.54	451.	-11.	0.07	0.18
235	30	3.50	3.50	0.	29.	0.00	0.46	4.55	4.54	0.	-13.	0.01	-0.01
239	30	3.50	3.50	285.	58.	0.00	1.25	4.55	4.54	0.	-32.	0.05	-0.05
243	30	6.99	3.50	2821.	103.	0.00	1.26	4.55	4.54	212.	-152.	0.12	0.22
245	30	3.50	3.50	655.	59.	0.00	0.76	4.55	4.54	692.	-14.	0.11	0.32
247	30	3.50	3.50	0.	69.	0.00	0.62	4.55	4.54	0.	-10.	0.01	-0.01
249	30	3.50	3.50	0.	77.	0.00	0.64	4.55	4.54	0.	-8.	0.04	0.08
251	30	3.50	3.50	16.	78.	0.00	1.01	4.55	4.54	668.	-3.	0.16	0.46
253	30	6.99	3.50	1394.	90.	0.00	1.20	4.55	4.54	1357.	-1.	0.25	0.82

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
80	0.9	0.4	0.6	82	0.1	1.0	0.8	88	0.2	1.0	1.0
92	0.5	0.8	0.8	96	0.5	1.0	0.9	98	0.3	1.2	1.1
100	0.0	1.4	1.4	102	0.0	1.4	1.3	104	0.2	1.1	0.9
106	0.9	0.5	0.6	227	1.3	0.1	1.1	229	0.4	0.1	0.3
235	0.4	0.1	0.3	239	1.5	0.7	1.2	243	1.5	0.7	1.1
245	0.4	0.1	0.3	247	0.1	0.2	0.2	249	0.1	0.1	0.1
251	0.4	0.1	0.3	253	1.5	1.0	1.2				

MACROGUSCIO muro\_10

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

- Nome Descrizione
- 15 Rara (RARA)
- 16 Rara VentoX (RARA)
- 17 Rara VentoY (RARA)
- 18 Frequente (FREQUENTE)
- 19 Frequente VentoX (FREQUENTE)
- 20 Frequente VentoY (FREQUENTE)
- 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " " " = 0.2 mm

wkP = '' '' '' '' quasi permanente (mm) - '' '' = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
80	3.50	3.50	0.	-3	0.11	-2.	0.000	0.	-6	0.20	-3.	0.000	100	-3	1.52	66.	0.000
82	3.50	3.50	564	-16	8.69	412.	0.000	565	-16	8.71	414.	0.000	523	-20	7.87	320.	0.000
88	3.50	3.50	157	-8	2.23	68.	0.000	156	-8	2.25	74.	0.000	152	-12	1.88	30.	0.000
92	3.50	3.50	0.	-7	0.21	-3.	0.000	0.	-4	0.14	-2.	0.000	0.	-6	0.19	-3.	0.000
96	3.50	3.50	0.	7	0.00	103.	0.000	0.	5	0.00	68.	0.000	154	13	1.23	363.	0.000
98	3.50	3.50	390	24	4.54	792.	0.000	383	19	4.98	710.	0.000	710	13	10.79	987.	0.000
100	3.50	3.50	275	15	3.37	539.	0.000	268	13	3.49	496.	0.000	331	8	4.92	495.	0.000
102	3.50	3.50	383	13	5.45	630.	0.000	386	12	5.60	611.	0.000	465	8	7.10	635.	0.000
104	3.50	3.50	1002	31	14.56	1578.	0.000	1004	28	14.75	1541.	0.000	960	18	14.54	1349.	0.000
106	3.50	3.50	169	32	0.00	662.	0.000	138	29	0.00	581.	0.000	408	12	5.93	639.	0.000
227	3.50	3.50	0.	-1	0.02	0.	0.000	0.	-18	0.59	-9.	0.000	0.	-8	0.26	-4.	0.000
229	3.50	3.50	1038	-7	16.33	1073.	0.000	1041	-10	16.39	1035.	0.000	961	-18	15.04	829.	0.000
235	3.50	3.50	714	-4	11.23	750.	0.000	719	-7	11.31	708.	0.000	627	-15	9.74	494.	0.000
239	3.50	3.50	0.	-17	0.55	-8.	0.000	0.	-18	0.57	-9.	0.000	0.	-16	0.51	-8.	0.000
243	3.50	6.99	0.	53	0.00	758.	0.000	0.	48	0.00	681.	0.000	0.	34	0.00	481.	0.000
245	3.50	3.50	1345	65	17.62	2470.	0.000	1333	58	18.02	2360.	0.000	1238	40	17.83	1984.	0.000
247	3.50	3.50	1537	83	19.18	2959.	0.000	1518	75	19.71	2817.	0.000	1231	46	17.32	2056.	0.000
249	3.50	3.50	1679	86	21.46	3165.	0.069	1684	76	22.56	3014.	0.036	1407	46	20.23	2260.	0.000
251	3.50	3.50	1619	73	21.73	2892.	0.000	1609	61	22.53	2710.	0.000	1479	38	21.91	2224.	0.000
253	3.50	6.99	0.	79	0.00	1125.	0.000	0.	72	0.00	1025.	0.000	0.	15	0.00	219.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
80	4.54	4.55	261	-53	3.29	-6.	0.000	260	-47	3.08	-3.	0.000	236	-44	2.86	-4.	0.000
82	4.54	4.55	0.	-59	1.90	-28.	0.000	0.	-51	1.64	-25.	0.000	17	-47	1.59	-21.	0.000
88	4.54	4.55	0.	-68	2.15	-32.	0.000	0.	-64	2.05	-31.	0.000	0.	-51	1.64	-25.	0.000
92	4.54	4.55	0.	-134	4.28	-64.	0.000	0.	-124	3.97	-60.	0.000	0.	-109	3.47	-52.	0.000
96	4.54	4.55	0.	-98	3.13	-47.	0.000	0.	-91	2.92	-44.	0.000	0.	-87	2.79	-42.	0.000
98	4.54	4.55	0.	-39	1.24	-19.	0.000	0.	-36	1.15	-17.	0.000	0.	-31	0.99	-15.	0.000
100	4.54	4.55	0.	-38	1.22	-18.	0.000	0.	-35	1.12	-17.	0.000	0.	-31	0.98	-15.	0.000
102	4.54	4.55	0.	-36	1.16	-17.	0.000	0.	-32	1.03	-15.	0.000	0.	-32	1.01	-15.	0.000
104	4.54	4.55	0.	-14	0.46	-7.	0.000	0.	-12	0.39	-6.	0.000	330	-13	4.46	155.	0.000
106	4.54	4.55	442	-6	6.16	327.	0.000	449	-5	6.27	344.	0.000	624	-13	8.69	412.	0.000
227	4.54	4.55	120	-48	2.26	-14.	0.000	115	-44	2.10	-12.	0.000	232	-33	2.63	0.	0.000
229	4.54	4.55	383	-24	4.76	101.	0.000	385	-20	5.01	139.	0.000	422	-16	5.73	207.	0.000
235	4.54	4.55	221	-40	2.62	-3.	0.000	230	-39	2.64	-2.	0.000	203	-13	2.52	54.	0.000
239	4.54	4.55	371	-159	7.35	-49.	0.000	378	-149	7.06	-43.	0.000	293	-93	4.75	-23.	0.000
243	4.54	4.55	429	-123	6.55	-27.	0.000	451	-109	6.23	-19.	0.000	640	-92	7.26	1.	0.000
245	4.54	4.55	780	-13	10.87	543.	0.000	762	-10	10.63	564.	0.000	845	-7	11.78	668.	0.000
247	4.54	4.55	411	-21	5.34	146.	0.000	386	-18	5.11	155.	0.000	431	-14	5.89	227.	0.000
249	4.54	4.55	487	-24	6.40	188.	0.000	498	-21	6.69	225.	0.000	567	-15	7.84	341.	0.000
251	4.54	4.55	734	-35	9.68	290.	0.000	726	-31	9.70	315.	0.000	884	-7	12.32	696.	0.000
253	4.54	4.55	516	-68	5.81	1.	0.000	443	-66	5.05	0.	0.000	714	-42	9.03	212.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
80	3.50	3.50	1060	-3	16.66	1147.	0.000	1059	-6	16.66	1109.	0.000	715	-3	11.24	757.	0.000
82	3.50	3.50	71	-16	0.08	-13.	0.000	75	-16	0.05	-13.	0.000	122	-20	0.12	-19.	0.000
88	3.50	3.50	0.	-8	0.27	-4.	0.000	0.	-8	0.25	-4.	0.000	0.	-12	0.38	-6.	0.000
92	3.50	3.50	561	-7	8.82	540.	0.000	562	-4	8.85	571.	0.000	498	-6	7.83	480.	0.000
96	3.50	3.50	1122	7	17.47	1370.	0.000	1124	5	17.56	1337.	0.000	1043	13	16.08	1361.	0.000
98	3.50	3.50	511	24	6.77	926.	0.000	505	19	7.10	846.	0.000	542	13	8.10	798.	0.000
100	3.50	3.50	76	15	0.00	311.	0.000	70	13	0.00	271.	0.000	0.	8	0.00	119.	0.000
102	3.50	3.50	92	13	0.00	303.	0.000	95	12	0.00	285.	0.000	18	8	0.00	130.	0.000
104	3.50	3.50	513	31	6.06	1031.	0.000	521	28	6.52	1001.	0.000	570	18	8.22	911.	0.000
106	3.50	3.50	1644	32	24.86	2323.	0.000	1660	29	25.25	2296.	0.000	1186	12	18.35	1515.	0.000
227	3.50	3.50	1598	-1	25.07	1794.	0.000	1581	-18	24.87	1526.	0.000	1208	-8	19.01	1249.	0.000
229	3.50	3.50	0.	-7	0.22	-3.	0.000	0.	-10	0.32	-5.	0.000	0.	-18	0.59	-9.	0.000
235	3.50	3.50	0.	-4	0.13	-2.	0.000	0.	-7	0.23	-3.	0.000	0.	-15	0.49	-7.	0.000
239	3.50	3.50	1068	-17	16.76	964.	0.000	1055	-18	16.55	941.	0.000	853	-16	13.35	738.	0.000
243	6.99	3.50	2426	53	26.47	1771.	0.116	2386	48	26.26	1710.	0.104	1813	34	20.08	1281.	0.001
245	3.50	3.50	0.	65	0.00	927.	0.000	0.	58	0.00	833.	0.000	211	40	0.00	826.	0.000
247	3.50	3.50	0.	83	0.00	1188.	0.000	0.	75	0.00	1072.	0.000	0.	46	0.00	651.	0.000
249	3.50	3.50	0.	86	0.00	1233.	0.000	0.	76	0.00	1084.	0.000	0.	46	0.00	658.	0.000
251	3.50	3.50	0.	73	0.00	1037.	0.000	0.	61	0.00	873.	0.000	241	38	0.00	832.	0.000
253	6.99	3.50	2379	79	24.40	1931.	0.138	2380	72	24.86	1880.	0.130	1919	15	22.06	1212.	0.006

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
80	4.55	4.54	501	-53	5.98	4.	0.000	502	-47	6.80	8.	0.000	555	-44	6.43	89.	0.000
82	4.55	4.54	754	-59	8.77	126.	0.000	756	-51	9.21	175.	0.000	624	-47	7.38	118.	0.000
88	4.55	4.54	890	-68	10.48	163.	0.000	908	-64	10.93	194.	0.000	494	-51	5.95	4.	0.000
92	4.55	4.54	1121	-134	12.72	4.	0.000	1161	-124	13.72	8.	0.000	787	-109	8.88	1.	0.000
96	4.55	4.54	1505	-98	18.55	379.	0.000	1545	-91	19.53	458.	0.000	1202	-87	14.35	243.	0.000
98	4.55	4.54	1655	-39	22.94	1034.	0.000	1674	-36	23.26	1081.	0.000	1245	-31	17.24	760.	0.000

100	4.55	4.54	1390	-38	19.18	813.	0.000	1395	-35	19.31	849.	0.000	992	-31	13.61	544.	0.000
102	4.55	4.54	1454	-36	20.14	886.	0.000	1466	-32	20.36	940.	0.000	1031	-32	14.16	570.	0.000
104	4.55	4.54	1497	-14	20.86	1154.	0.000	1502	-12	20.92	1181.	0.000	1163	-13	16.22	877.	0.000
106	4.55	4.54	1232	-6	17.12	1017.	0.000	1231	-5	17.10	1027.	0.000	959	-13	13.38	703.	0.000
227	4.55	4.54	319	-48	3.66	0.	0.000	334	-44	3.76	1.	0.000	292	-33	3.35	1.	0.000
229	4.55	4.54	0.	-24	0.77	-12.	0.000	2	-20	0.62	-10.	0.000	41	-16	0.25	-11.	0.000
235	4.55	4.54	0.	-40	1.26	-19.	0.000	0.	-39	1.23	-18.	0.000	0.	-13	0.41	-6.	0.000
239	4.55	4.54	0.	-159	5.07	-76.	0.000	0.	-149	4.74	-71.	0.000	0.	-93	2.95	-44.	0.000
243	4.55	4.54	422	-123	1.33	-90.	0.000	409	-109	0.95	-82.	0.000	290	-92	1.15	-65.	0.000
245	4.55	4.54	506	-13	6.99	304.	0.000	486	-10	6.76	322.	0.000	461	-7	6.43	331.	0.000
247	4.55	4.54	0.	-21	0.68	-10.	0.000	0.	-18	0.57	-9.	0.000	0.	-14	0.46	-7.	0.000
249	4.55	4.54	0.	-24	0.76	-11.	0.000	0.	-21	0.66	-10.	0.000	0.	-15	0.47	-7.	0.000
251	4.55	4.54	555	-35	6.91	149.	0.000	581	-31	7.48	196.	0.000	644	-7	8.97	484.	0.000
253	4.55	4.54	744	-68	10.40	13.	0.000	804	-66	9.26	123.	0.000	712	-42	8.99	210.	0.000

MACROGUSCIO muro\_11

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsF	Af	Afc	Mom	Nor	epsC	epsF	
141	30	5.25	5.19	1257.	43.	0.07	0.77	4.64	4.64	972.	-55.	0.16	0.33
143	30	5.25	5.19	254.	16.	0.00	0.23	4.64	4.64	1218.	-12.	0.18	0.49
145	30	2.62	2.59	0.	46.	0.00	0.47	4.64	4.64	1131.	-19.	0.17	0.44
147	30	2.62	2.59	452.	35.	0.02	0.87	4.64	4.64	1358.	-62.	0.22	0.47
150	30	2.62	2.59	563.	21.	0.05	0.60	4.64	4.64	1195.	-78.	0.20	0.39
152	30	2.62	2.59	16.	-9.	0.02	0.04	4.64	4.64	989.	-52.	0.16	0.34
155	30	2.62	2.59	66.	5.	0.04	0.12	4.64	4.64	937.	-33.	0.15	0.35
160	30	2.62	2.59	678.	-2.	0.18	0.68	4.64	4.64	613.	-34.	0.10	0.22
288	30	5.25	5.19	2793.	87.	0.23	1.42	4.64	4.64	459.	81.	0.00	0.61
290	30	5.25	5.19	0.	132.	0.00	0.78	4.64	4.64	489.	-8.	0.07	0.20
292	30	2.62	2.59	0.	93.	0.00	0.92	4.64	4.64	0.	-10.	0.00	0.01
294	30	2.62	2.59	525.	63.	0.14	1.51	4.64	4.64	484.	-39.	0.09	0.17
297	30	2.62	2.59	1034.	43.	0.00	1.16	4.64	4.64	0.	-74.	0.04	0.05
299	30	2.62	2.59	0.	11.	0.00	0.17	4.64	4.64	0.	-16.	0.01	-0.01
302	30	2.62	2.59	0.	2.	0.00	0.15	4.64	4.64	366.	-1.	0.05	0.15
307	30	2.62	2.59	909.	-5.	0.35	1.43	4.64	4.64	864.	-5.	0.12	0.35

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
141	30	5.19	5.25	0.	43.	0.00	0.33	4.64	4.64	0.	-111.	0.05	-0.05
143	30	5.19	5.25	846.	16.	0.10	0.39	4.64	4.64	68.	-28.	0.06	0.11
145	30	2.59	2.62	245.	46.	0.00	0.89	4.64	4.64	0.	-31.	0.01	-0.01
147	30	2.59	2.62	205.	35.	0.00	0.52	4.64	4.64	0.	-50.	0.04	-0.04
150	30	2.59	2.62	0.	21.	0.00	0.29	4.64	4.64	0.	-90.	0.04	-0.04
152	30	2.59	2.62	121.	-9.	0.08	0.28	4.64	4.64	0.	-64.	0.03	-0.03
155	30	2.59	2.62	409.	5.	0.12	0.41	4.64	4.64	0.	-31.	0.04	0.09
160	30	2.59	2.62	235.	-2.	0.05	0.17	4.64	4.64	58.	-22.	0.03	0.06
288	30	5.19	5.25	0.	87.	0.00	1.08	4.64	4.64	0.	81.	0.00	0.42
290	30	5.19	5.25	1093.	132.	0.00	1.22	4.64	4.64	437.	-8.	0.07	0.28
292	30	2.59	2.62	972.	93.	0.01	1.77	4.64	4.64	260.	-10.	0.06	0.16
294	30	2.59	2.62	619.	63.	0.00	1.04	4.64	4.64	345.	-50.	0.12	0.22
297	30	2.59	2.62	0.	43.	0.00	0.51	4.64	4.64	0.	-74.	0.06	0.08
299	30	2.59	2.62	674.	11.	0.13	0.86	4.64	4.64	355.	-12.	0.07	0.17
302	30	2.59	2.62	1046.	2.	0.19	0.93	4.64	4.64	276.	-5.	0.07	0.19
307	30	2.59	2.62	0.	-5.	0.00	0.17	4.64	4.64	0.	-7.	0.16	0.46

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
141	1.1	0.7	0.8	143	0.2	1.0	0.8	145	0.1	1.0	1.0
147	0.5	0.9	0.9	150	0.5	0.6	0.7	152	0.2	0.9	0.9
155	0.2	0.8	0.7	160	1.0	0.3	0.6	288	1.7	0.1	1.4
290	0.5	0.2	0.4	292	0.3	0.2	0.2	294	1.1	0.8	0.9
297	1.2	1.0	1.1	299	0.4	0.1	0.3	302	0.4	0.1	0.3
307	1.3	0.1	1.1								

MACROGUSCIO muro\_11

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	- forze	: [daN]
momenti	: [daNcm/cm]	- tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	- angoli	: [gradi]
armature	: [cm2]		

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
141	5.25	5.19	1055	13	13.28	930.	0.000	1035	17	12.90	946.	0.000	872	5	11.16	708.	0.000
143	5.25	5.19	269	8	3.17	282.	0.000	265	7	3.15	273.	0.000	155	-1	2.02	111.	0.000
145	2.62	2.59	0.	-1	0.02	0.	0.000	0.	1	0.00	21.	0.000	0.	-5	0.17	-3.	0.000
147	2.62	2.59	516	-1	9.30	748.	0.000	521	-1	9.39	764.	0.000	485	-1	8.74	712.	0.000
150	2.62	2.59	472	-6	8.47	587.	0.000	466	-1	8.39	670.	0.000	374	6	6.61	671.	0.000
152	2.62	2.59	0.	-8	0.26	-4.	0.000	0.	-7	0.23	-3.	0.000	0.	-13	0.41	-6.	0.000
155	2.62	2.59	1	-1	0.03	0.	0.000	8	-1	0.10	0.	0.000	39	-7	0.46	0.	0.000
160	2.62	2.59	892	-3	16.07	1274.	0.000	902	-6	16.25	1235.	0.000	566	-5	10.19	757.	0.000
288	5.25	5.19	2000	22	25.29	1728.	0.038	1903	31	23.68	1744.	0.024	1552	26	19.28	1430.	0.000
290	5.25	5.19	0.	38	0.00	364.	0.000	0.	37	0.00	353.	0.000	0.	22	0.00	214.	0.000
292	2.62	2.59	0.	34	0.00	655.	0.000	0.	47	0.00	899.	0.000	0.	22	0.00	421.	0.000
294	2.62	2.59	922	31	15.30	1995.	0.000	937	29	15.72	1976.	0.000	651	20	10.98	1362.	0.000
297	2.62	2.59	773	16	13.45	1472.	0.000	790	13	13.93	1427.	0.000	596	14	10.33	1155.	0.000
299	2.62	2.59	0.	12	0.00	221.	0.000	0.	8	0.00	146.	0.000	0.	-1	0.04	-1.	0.000
302	2.62	2.59	0.	9	0.00	163.	0.000	0.	5	0.00	91.	0.000	0.	-4	0.13	-2.	0.000
307	2.62	2.59	1318	5	23.68	2062.	0.000	1381	14	24.61	2336.	0.000	1069	-6	19.25	1472.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
141	4.64	4.64	430	-110	6.12	-21.	0.000	410	-98	5.64	-17.	0.000	455	-79	5.29	-4.	0.000
143	4.64	4.64	894	-45	11.57	321.	0.000	897	-38	11.89	384.	0.000	740	-28	9.93	348.	0.000
145	4.64	4.64	928	-63	11.25	215.	0.000	887	-48	11.37	298.	0.000	502	-44	7.63	12.	0.000
147	4.64	4.64	1128	-99	16.87	26.	0.000	1120	-90	12.89	176.	0.000	740	-76	8.95	6.	0.000
150	4.64	4.64	903	-86	11.83	12.	0.000	905	-77	14.42	26.	0.000	578	-82	6.55	1.	0.000
152	4.64	4.64	693	-49	8.32	149.	0.000	692	-43	8.58	186.	0.000	376	-46	4.24	1.	0.000
155	4.64	4.64	578	-32	7.37	188.	0.000	579	-28	7.53	216.	0.000	463	-22	6.07	182.	0.000
160	4.64	4.64	332	-24	3.94	65.	0.000	333	-22	4.04	78.	0.000	295	-21	3.53	62.	0.000
288	4.64	4.64	275	-85	4.40	-21.	0.000	259	-76	4.00	-17.	0.000	279	-55	3.47	-6.	0.000
290	4.64	4.64	18	-18	0.69	-7.	0.000	7	-15	0.53	-7.	0.000	69	-13	0.85	-1.	0.000
292	4.64	4.64	0.	-39	1.24	-19.	0.000	0.	-34	1.09	-16.	0.000	0.	-18	0.57	-9.	0.000
294	4.64	4.64	266	-120	5.45	-38.	0.000	180	-108	4.53	-38.	0.000	146	-65	2.97	-20.	0.000
297	4.64	4.64	158	-69	3.16	-21.	0.000	68	-62	2.39	-25.	0.000	0.	-58	1.85	-28.	0.000
299	4.64	4.64	0.	-7	0.21	-3.	0.000	0.	-7	0.21	-3.	0.000	0.	-8	0.24	-4.	0.000
302	4.64	4.64	0.	-24	0.75	-11.	0.000	0.	-22	0.69	-10.	0.000	0.	-4	0.13	-2.	0.000
307	4.64	4.64	192	-38	2.38	-4.	0.000	198	-35	2.32	-2.	0.000	117	-23	1.46	-3.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
141	5.19	5.25	0.	13	0.00	129.	0.000	0.	17	0.00	159.	0.000	0.	5	0.00	45.	0.000
143	5.19	5.25	382	8	4.69	371.	0.000	388	7	4.81	370.	0.000	522	-1	6.79	394.	0.000
145	2.59	2.62	160	-1	2.89	228.	0.000	275	1	4.97	437.	0.000	219	-5	3.88	232.	0.000
147	2.59	2.62	0.	-1	0.04	-1.	0.000	0.	-1	0.02	0.	0.000	0.	-1	0.02	0.	0.000

150	2.59	2.62	0.	-6	0.20	-3.	0.000	0.	-1	0.04	-1.	0.000	0.	6	0.00	111.	0.000
152	2.59	2.62	154	-8	2.44	89.	0.000	212	-7	3.67	190.	0.000	170	-13	2.31	48.	0.000
155	2.59	2.62	376	-1	6.81	554.	0.000	390	-1	7.06	571.	0.000	364	-7	6.51	422.	0.000
160	2.59	2.62	0.	-3	0.10	-1.	0.000	0.	-6	0.19	-3.	0.000	0.	-5	0.15	-2.	0.000
288	5.19	5.25	0.	22	0.00	208.	0.000	0.	31	0.00	299.	0.000	0.	26	0.00	252.	0.000
290	5.19	5.25	985	38	11.12	1130.	0.000	994	37	11.31	1126.	0.000	912	22	11.07	919.	0.000
292	2.59	2.62	797	34	12.67	1887.	0.000	984	47	15.17	2426.	0.000	795	22	13.61	1636.	0.000
294	2.59	2.62	0.	31	0.00	606.	0.000	0.	29	0.00	568.	0.000	29	20	0.00	430.	0.000
297	2.59	2.62	0.	16	0.00	315.	0.000	0.	13	0.00	245.	0.000	0.	14	0.00	261.	0.000
299	2.59	2.62	622	12	10.96	1168.	0.000	649	8	11.59	1129.	0.000	599	-1	10.84	882.	0.000
302	2.59	2.62	802	9	14.36	1378.	0.000	798	5	14.38	1298.	0.000	711	-4	12.87	997.	0.000
307	2.59	2.62	0.	5	0.00	93.	0.000	0.	14	0.00	273.	0.000	0.	-6	0.21	-3.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
141	4.64	4.64	0.	-110	3.49	-52.	0.000	0.	-98	3.13	-47.	0.000	0.	-79	2.51	-38.	0.000
143	4.64	4.64	0.	-45	1.45	-22.	0.000	0.	-38	1.23	-18.	0.000	0.	-28	0.91	-14.	0.000
145	4.64	4.64	0.	-63	2.00	-30.	0.000	0.	-48	1.52	-23.	0.000	0.	-44	1.39	-21.	0.000
147	4.64	4.64	0.	-99	3.14	-47.	0.000	0.	-90	2.87	-43.	0.000	0.	-76	2.44	-37.	0.000
150	4.64	4.64	0.	-86	2.74	-41.	0.000	0.	-77	2.45	-37.	0.000	0.	-82	2.63	-39.	0.000
152	4.64	4.64	0.	-49	1.55	-23.	0.000	0.	-43	1.37	-21.	0.000	0.	-46	1.46	-22.	0.000
155	4.64	4.64	0.	-32	1.01	-15.	0.000	0.	-28	0.91	-14.	0.000	0.	-22	0.69	-10.	0.000
160	4.64	4.64	0.	-24	0.78	-12.	0.000	0.	-22	0.71	-11.	0.000	36	-21	0.44	-13.	0.000
288	4.64	4.64	0.	-85	2.72	-41.	0.000	0.	-76	2.42	-36.	0.000	0.	-55	1.76	-26.	0.000
290	4.64	4.64	321	-18	4.08	101.	0.000	339	-15	4.47	138.	0.000	366	-13	4.93	178.	0.000
292	4.64	4.64	91	-39	0.68	-25.	0.000	113	-34	0.40	-25.	0.000	229	-18	2.66	39.	0.000
294	4.64	4.64	0.	-120	3.83	-57.	0.000	76	-108	2.97	-57.	0.000	304	-65	0.22	-54.	0.000
297	4.64	4.64	0.	-69	2.20	-33.	0.000	0.	-62	1.97	-30.	0.000	92	-58	1.28	-35.	0.000
299	4.64	4.64	78	-7	0.89	11.	0.000	86	-7	1.01	15.	0.000	192	-8	2.56	88.	0.000
302	4.64	4.64	222	-24	2.64	2.	0.000	218	-22	2.72	2.	0.000	304	-4	4.20	218.	0.000
307	4.64	4.64	127	-38	0.43	-27.	0.000	106	-35	0.46	-24.	0.000	120	-23	0.01	-20.	0.000

MACROGUSCIO muro\_12

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE				INFERIORE VERTICALE							
		Af	Afc	Mom	Nor	epsF	epsC	epsF	epsC				
142	30	2.62	2.62	69.	-39.	0.03	0.02	4.71	4.71	0.	-176.	0.08	-0.08
144	30	2.62	2.62	0.	-2.	0.01	-0.01	4.71	4.71	0.	-71.	0.03	-0.03
146	30	2.62	2.62	318.	-1.	0.06	0.23	4.71	4.71	0.	-74.	0.03	-0.03
148	30	2.62	2.62	357.	-36.	0.11	0.32	4.71	4.71	21.	-44.	0.02	-0.02
149	30	2.62	2.62	614.	-9.	0.12	0.42	4.71	4.71	245.	-15.	0.04	0.09
151	30	2.62	2.62	0.	13.	0.00	0.19	4.71	4.71	82.	-21.	0.02	0.04
289	30	2.62	2.62	151.	-7.	0.03	0.44	4.71	4.71	130.	-170.	0.09	0.07
291	30	2.62	2.62	0.	28.	0.00	0.48	4.71	4.71	41.	-47.	0.03	0.07
293	30	2.62	2.62	352.	3.	0.04	0.29	4.71	4.71	381.	-35.	0.07	0.13
295	30	2.62	2.62	809.	-8.	0.16	0.74	4.71	4.71	462.	-20.	0.07	0.17
296	30	2.62	2.62	631.	-16.	0.22	0.72	4.71	4.71	369.	-19.	0.06	0.14
298	30	2.62	2.62	0.	0.	0.00	0.19	4.71	4.71	1004.	-12.	0.15	0.40

GUSCI	spess	SUPERIORE ORIZZONTALE				SUPERIORE VERTICALE							
		Af	Afc	Mom	Nor	epsC	epsF	epsC	epsF				
142	30	2.62	2.62	108.	-39.	0.10	0.37	4.71	4.71	699.	-73.	0.13	0.21
144	30	2.62	2.62	453.	-2.	0.09	0.32	4.71	4.71	256.	-71.	0.16	0.32
146	30	2.62	2.62	210.	-1.	0.09	0.45	4.71	4.71	659.	-52.	0.20	0.43
148	30	2.62	2.62	0.	-36.	0.03	0.05	4.71	4.71	442.	-22.	0.17	0.42

149	30	2.62	2.62	30.	-9.	0.01	0.14	4.71	4.71	555.	-20.	0.13	0.32
151	30	2.62	2.62	625.	13.	0.12	0.67	4.71	4.71	346.	-18.	0.09	0.19
289	30	2.62	2.62	77.	-7.	0.19	1.30	4.71	4.71	126.	-66.	0.09	-0.05
291	30	2.62	2.62	690.	28.	0.00	0.85	4.71	4.71	279.	-35.	0.08	0.21
293	30	2.62	2.62	258.	3.	0.11	0.80	4.71	4.71	226.	-35.	0.10	0.22
295	30	2.62	2.62	0.	-8.	0.01	0.09	4.71	4.71	0.	-12.	0.02	0.04
296	30	2.62	2.62	0.	-16.	0.01	-0.01	4.71	4.71	442.	-11.	0.07	0.17
298	30	2.62	2.62	1975.	0.	0.37	1.43	4.71	4.71	1142.	-11.	0.17	0.45

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	$\tau_x$	$\tau_y$	$\tau_t$	GUSCI	$\tau_x$	$\tau_y$	$\tau_t$	GUSCI	$\tau_x$	$\tau_y$	$\tau_t$
142	0.7	0.4	0.5	144	0.3	0.6	0.5	146	0.5	0.6	0.7
148	0.1	0.9	0.9	149	0.2	0.8	0.6	151	1.0	0.2	0.6
289	0.9	0.5	0.9	291	0.7	0.9	0.8	293	1.1	1.0	1.1
295	0.2	0.1	0.2	296	0.4	0.1	0.3	298	1.6	0.3	1.3

MACROGUSCIO muro\_12

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	- forze	: [daN]
momenti	: [daNcm/cm]	- tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	- angoli	: [gradi]
armature	: [cm2]		

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wKR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
142	2.62	2.62	0.	-25	0.81	-12.	0.000	0.	-23	0.76	-11.	0.000	0.	-9	0.29	-4.	0.000
144	2.62	2.62	0.	-16	0.53	-8.	0.000	0.	-18	0.59	-9.	0.000	0.	-28	0.92	-14.	0.000
146	2.62	2.62	0.	-6	0.19	-3.	0.000	0.	-9	0.29	-4.	0.000	95	-5	1.45	46.	0.000
148	2.62	2.62	29	-6	0.39	-1.	0.000	30	-10	0.50	-2.	0.000	235	-21	3.49	5.	0.000
149	2.62	2.62	396	-15	6.66	308.	0.000	396	-12	6.86	363.	0.000	378	-14	6.43	311.	0.000
151	2.62	2.62	0.	-6	0.19	-3.	0.000	0.	-5	0.17	-3.	0.000	0.	-7	0.22	-3.	0.000
289	2.62	2.62	0.	-29	0.95	-14.	0.000	0.	-22	0.70	-10.	0.000	0.	-2	0.05	-1.	0.000
291	2.62	2.62	0.	-22	0.70	-11.	0.000	0.	-19	0.60	-9.	0.000	12	-14	0.52	-6.	0.000
293	2.62	2.62	0.	-20	0.64	-10.	0.000	0.	-22	0.71	-11.	0.000	2	-3	0.09	-1.	0.000
295	2.62	2.62	656	-8	11.77	829.	0.000	669	-12	11.92	774.	0.000	708	-20	12.33	678.	0.000
296	2.62	2.62	777	-13	13.87	906.	0.000	766	-14	13.65	876.	0.000	701	-23	12.08	627.	0.000
298	2.62	2.62	0.	-8	0.25	-4.	0.000	0.	-12	0.39	-6.	0.000	0.	-15	0.50	-8.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wKR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
142	4.71	4.71	0.	-275	8.76	-131.	0.000	0.	-239	7.60	-114.	0.000	0.	-130	4.13	-62.	0.000
144	4.71	4.71	0.	-112	3.55	-53.	0.000	0.	-102	3.24	-49.	0.000	0.	-73	2.31	-35.	0.000
146	4.71	4.71	0.	-91	2.88	-43.	0.000	0.	-83	2.66	-40.	0.000	0.	-73	2.34	-35.	0.000
148	4.71	4.71	0.	-64	2.02	-30.	0.000	0.	-60	1.91	-29.	0.000	0.	-46	1.46	-22.	0.000
149	4.71	4.71	121	-35	1.87	-8.	0.000	137	-30	1.79	-4.	0.000	0.	-24	0.75	-11.	0.000
151	4.71	4.71	0.	-27	0.85	-13.	0.000	0.	-24	0.75	-11.	0.000	51	-23	1.03	-7.	0.000
289	4.71	4.71	46	-228	7.53	-105.	0.000	50	-199	6.65	-92.	0.000	1	-86	2.74	-41.	0.000
291	4.71	4.71	0.	-98	3.13	-47.	0.000	0.	-87	2.78	-42.	0.000	0.	-45	1.42	-21.	0.000
293	4.71	4.71	0.	-73	2.34	-35.	0.000	0.	-67	2.13	-32.	0.000	28	-41	1.46	-17.	0.000
295	4.71	4.71	0.	-23	0.72	-11.	0.000	0.	-21	0.67	-10.	0.000	189	-4	2.57	114.	0.000
296	4.71	4.71	137	-16	1.57	1.	0.000	136	-13	1.72	2.	0.000	208	-7	2.81	106.	0.000
298	4.71	4.71	0.	-39	1.24	-19.	0.000	0.	-35	1.12	-17.	0.000	0.	-26	0.82	-12.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wKR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
142	2.62	2.62	458	-25	7.12	241.	0.000	456	-23	7.21	261.	0.000	230	-9	3.87	181.	0.000
144	2.62	2.62	277	-16	4.16	125.	0.000	260	-18	3.64	84.	0.000	141	-28	0.03	-25.	0.000



146	2.62	2.62	505	-6	9.06	641.	0.000	487	-9	8.67	557.	0.000	359	-5	6.42	432.	0.000
148	2.62	2.62	104	-6	1.54	43.	0.000	94	-10	1.19	1.	0.000	0.	-21	0.68	-10.	0.000
149	2.62	2.62	0.	-15	0.50	-7.	0.000	0.	-12	0.40	-6.	0.000	21	-14	0.31	-8.	0.000
151	2.62	2.62	770	-6	13.87	1038.	0.000	775	-5	13.96	1057.	0.000	577	-7	10.36	735.	0.000
289	2.62	2.62	1032	-29	18.01	996.	0.000	989	-22	17.51	1070.	0.000	553	-2	9.95	796.	0.000
291	2.62	2.62	457	-22	7.39	290.	0.000	422	-19	6.95	292.	0.000	253	-14	3.95	135.	0.000
293	2.62	2.62	610	-20	10.52	545.	0.000	621	-22	10.61	525.	0.000	363	-3	6.53	493.	0.000
295	2.62	2.62	0.	-8	0.25	-4.	0.000	0.	-12	0.38	-6.	0.000	0.	-20	0.66	-10.	0.000
296	2.62	2.62	0.	-13	0.44	-7.	0.000	0.	-14	0.46	-7.	0.000	0.	-23	0.73	-11.	0.000
298	2.62	2.62	1415	-8	25.48	1962.	0.000	1422	-12	25.58	1892.	0.000	1082	-15	19.38	1321.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
142	4.71	4.71	401	-275	6.32	-161.	0.000	377	-239	5.30	-142.	0.000	325	-130	2.14	-86.	0.000
144	4.71	4.71	706	-112	8.18	0.	0.000	685	-102	7.81	1.	0.000	469	-73	5.41	0.	0.000
146	4.71	4.71	950	-91	12.37	12.	0.000	918	-83	12.79	16.	0.000	576	-73	6.47	2.	0.000
148	4.71	4.71	552	-64	6.32	3.	0.000	523	-60	5.98	3.	0.000	373	-46	4.21	1.	0.000
149	4.71	4.71	232	-35	2.67	0.	0.000	226	-30	2.54	1.	0.000	402	-24	5.03	117.	0.000
151	4.71	4.71	247	-27	2.89	2.	0.000	245	-24	3.18	3.	0.000	278	-23	3.18	42.	0.000
289	4.71	4.71	256	-228	5.68	-127.	0.000	246	-199	4.84	-113.	0.000	142	-86	1.87	-52.	0.000
291	4.71	4.71	516	-98	0.03	-85.	0.000	408	-87	0.28	-72.	0.000	181	-45	0.31	-35.	0.000
293	4.71	4.71	519	-73	5.87	1.	0.000	424	-67	4.91	0.	0.000	276	-41	3.14	0.	0.000
295	4.71	4.71	96	-23	0.14	-18.	0.000	63	-21	0.29	-15.	0.000	0.	-4	0.14	-2.	0.000
296	4.71	4.71	92	-16	0.06	-14.	0.000	80	-13	0.06	-12.	0.000	0.	-7	0.22	-3.	0.000
298	4.71	4.71	261	-39	2.98	0.	0.000	252	-35	2.84	0.	0.000	224	-26	2.56	1.	0.000

MACROGUSCIO muro\_1

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
24	2.62	2.62	0.	-41	1.32	-20.	0.000	0.	-39	1.28	-19.	0.000	140	-23	1.63	-1.	0.000
25	2.62	2.62	413	-21	6.56	241.	0.000	395	-23	6.00	188.	0.000	356	-21	5.33	158.	0.000
26	2.62	2.62	0.	-16	0.51	-8.	0.000	0.	-13	0.44	-7.	0.000	0.	-19	0.62	-9.	0.000
27	2.62	2.62	0.	-2	0.08	-1.	0.000	0.	-6	0.20	-3.	0.000	50	-8	0.60	0.	0.000
28	2.62	2.62	148	-1	2.67	201.	0.000	158	-5	2.71	135.	0.000	250	-14	3.84	125.	0.000
29	2.62	2.62	717	-18	12.60	727.	0.000	713	-19	12.49	710.	0.000	657	-18	11.49	643.	0.000
30	2.62	2.62	0.	-22	0.72	-11.	0.000	0.	-26	0.86	-13.	0.000	228	-15	3.32	88.	0.000
171	2.62	2.62	0.	-33	1.07	-16.	0.000	0.	-39	1.26	-19.	0.000	0.	-38	1.24	-19.	0.000
172	2.62	2.62	1034	-43	17.23	764.	0.000	1015	-48	16.41	645.	0.000	869	-42	13.99	541.	0.000
173	2.62	2.62	0.	-28	0.92	-14.	0.000	0.	-21	0.69	-10.	0.000	0.	-35	1.15	-17.	0.000
174	2.62	2.62	0.	-14	0.44	-7.	0.000	0.	-22	0.71	-11.	0.000	168	-24	1.94	0.	0.000
175	2.62	2.62	1110	-23	19.69	1218.	0.000	1110	-32	19.34	1064.	0.000	922	-32	15.72	775.	0.000
176	2.62	2.62	1424	-27	25.32	1606.	0.000	1415	-34	24.95	1479.	0.000	1232	-33	21.57	1220.	0.000
177	2.62	2.62	0.	-23	0.73	-11.	0.000	0.	-28	0.92	-14.	0.000	0.	-33	1.07	-16.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
24	4.55	4.55	0.	-31	0.99	-15.	0.000	0.	-26	0.82	-12.	0.000	0.	-26	0.84	-13.	0.000
25	4.55	4.55	0.	-35	1.10	-17.	0.000	0.	-31	0.99	-15.	0.000	0.	-25	0.80	-12.	0.000
26	4.55	4.55	0.	-70	2.22	-33.	0.000	0.	-57	1.81	-27.	0.000	0.	-48	1.51	-23.	0.000
27	4.55	4.55	0.	-55	1.74	-26.	0.000	0.	-47	1.49	-22.	0.000	0.	-40	1.26	-19.	0.000
28	4.55	4.55	0.	-26	0.82	-12.	0.000	0.	-23	0.73	-11.	0.000	0.	-17	0.54	-8.	0.000

29	4.55	4.55	0.	-24	0.77	-12.	0.000	0.	-20	0.63	-9.	0.000	0.	-17	0.53	-8.	0.000
30	4.55	4.55	146	-20	1.65	0.	0.000	147	-17	1.69	1.	0.000	306	-17	3.91	97.	0.000
171	4.55	4.55	2	-37	1.18	-17.	0.000	0.	-30	0.94	-14.	0.000	55	-22	1.05	-7.	0.000
172	4.55	4.55	367	-21	4.67	114.	0.000	368	-18	4.82	139.	0.000	331	-13	4.45	151.	0.000
173	4.55	4.55	0.	-75	2.39	-36.	0.000	47	-58	2.15	-24.	0.000	114	-38	1.90	-10.	0.000
174	4.55	4.55	0.	-40	1.29	-19.	0.000	85	-32	1.53	-9.	0.000	401	-26	4.97	105.	0.000
175	4.55	4.55	143	-4	1.98	84.	0.000	129	-4	1.77	74.	0.000	246	-3	3.43	187.	0.000
176	4.55	4.55	435	-11	6.02	268.	0.000	422	-7	5.88	290.	0.000	551	-3	7.65	448.	0.000
177	4.55	4.55	225	-45	2.81	-5.	0.000	96	-38	1.79	-11.	0.000	319	-18	4.08	102.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
24	2.62	2.62	1117	-41	18.98	917.	0.000	1087	-39	18.47	894.	0.000	744	-23	12.87	682.	0.000
25	2.62	2.62	17	-21	0.57	-12.	0.000	0.	-23	0.74	-11.	0.000	31	-21	0.50	-13.	0.000
26	2.62	2.62	357	-16	5.88	248.	0.000	346	-13	5.83	270.	0.000	282	-19	4.00	98.	0.000
27	2.62	2.62	727	-2	13.09	1039.	0.000	717	-6	12.89	950.	0.000	654	-8	11.74	824.	0.000
28	2.62	2.62	67	-1	1.20	80.	0.000	71	-5	0.94	18.	0.000	0.	-14	0.46	-7.	0.000
29	2.62	2.62	139	-18	1.60	0.	0.000	129	-19	1.50	0.	0.000	186	-18	2.45	2.	0.000
30	2.62	2.62	1374	-22	24.54	1628.	0.000	1366	-26	24.29	1539.	0.000	951	-15	17.01	1140.	0.000
171	2.62	2.62	1581	-33	28.04	1737.	0.000	1517	-39	26.63	1535.	0.000	1184	-38	20.39	1055.	0.000
172	2.62	2.62	0.	-43	1.38	-21.	0.000	0.	-48	1.56	-23.	0.000	0.	-42	1.36	-20.	0.000
173	2.62	2.62	538	-28	8.45	298.	0.000	489	-21	8.06	341.	0.000	246	-35	2.85	0.	0.000
174	2.62	2.62	1101	-14	19.75	1382.	0.000	1084	-22	19.25	1207.	0.000	766	-24	13.23	696.	0.000
175	2.62	2.62	0.	-23	0.76	-11.	0.000	0.	-32	1.03	-15.	0.000	0.	-32	1.05	-16.	0.000
176	2.62	2.62	0.	-27	0.89	-13.	0.000	0.	-34	1.09	-16.	0.000	0.	-33	1.07	-16.	0.000
177	2.62	2.62	2010	-23	36.10	2569.	0.000	1984	-28	35.54	2426.	0.000	1521	-33	26.93	1649.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
24	4.55	4.55	301	-31	3.63	2.	0.000	303	-26	4.78	8.	0.000	349	-26	4.11	64.	0.000
25	4.55	4.55	926	-35	12.54	452.	0.000	926	-31	12.65	486.	0.000	646	-25	8.72	305.	0.000
26	4.55	4.55	1185	-70	14.99	355.	0.000	1207	-57	15.93	481.	0.000	849	-48	10.87	274.	0.000
27	4.55	4.55	1517	-55	20.61	759.	0.000	1541	-47	21.17	856.	0.000	1134	-40	15.45	580.	0.000
28	4.55	4.55	1252	-26	17.40	821.	0.000	1259	-23	17.52	856.	0.000	751	-17	10.43	479.	0.000
29	4.55	4.55	1110	-24	15.41	715.	0.000	1113	-20	15.49	762.	0.000	862	-17	11.99	576.	0.000
30	4.55	4.55	753	-20	10.41	446.	0.000	754	-17	10.46	482.	0.000	719	-17	9.96	445.	0.000
171	4.55	4.55	261	-37	2.96	0.	0.000	330	-30	4.70	6.	0.000	196	-22	2.26	1.	0.000
172	4.55	4.55	243	-21	3.71	6.	0.000	220	-18	2.53	33.	0.000	0.	-13	0.43	-6.	0.000
173	4.55	4.55	155	-75	1.44	-47.	0.000	97	-58	1.27	-35.	0.000	0.	-38	1.21	-18.	0.000
174	4.55	4.55	500	-40	5.77	78.	0.000	438	-32	5.23	89.	0.000	255	-26	3.16	3.	0.000
175	4.55	4.55	0.	-4	0.13	-2.	0.000	0.	-4	0.12	-2.	0.000	0.	-3	0.08	-1.	0.000
176	4.55	4.55	17	-11	0.24	-6.	0.000	47	-7	0.55	0.	0.000	105	-3	1.44	59.	0.000
177	4.55	4.55	98	-45	0.83	-29.	0.000	260	-38	2.95	0.	0.000	460	-18	6.21	216.	0.000

MACROGUSCIO muro\_2

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE							INFERIORE VERTICALE						
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF		
47	30	2.62	2.62	0.	42.	0.00	0.68	4.55	4.55	449.	-5.	0.07	0.19		
48	30	2.62	2.62	786.	48.	0.00	1.00	4.55	4.55	497.	23.	0.00	0.33		
49	30	2.62	2.62	275.	42.	0.00	0.82	4.55	4.55	315.	-39.	0.06	0.11		
50	30	2.62	2.62	320.	54.	0.00	0.73	4.55	4.55	0.	-88.	0.04	-0.04		
51	30	13.33	13.33	0.	196.	0.00	0.40	4.55	4.55	0.	77.	0.02	0.40		

52	30	10.71	10.71	382.	204.	0.00	0.58	4.55	4.55	0.	137.	0.00	0.72
53	30	10.71	10.71	392.	186.	0.00	0.60	4.55	4.55	214.	110.	0.00	0.77
54	30	10.71	10.71	143.	11.	0.00	0.23	4.55	4.55	261.	-65.	0.07	0.23
194	30	2.62	2.62	0.	26.	0.00	0.67	4.55	4.55	1311.	-10.	0.19	0.54
195	30	2.62	2.62	1400.	28.	0.23	1.68	4.55	4.55	809.	12.	0.10	0.40
196	30	2.62	2.62	1239.	35.	0.09	1.70	4.55	4.55	501.	-2.	0.07	0.21
197	30	2.62	2.62	534.	70.	0.00	1.03	4.55	4.55	1123.	-103.	0.20	0.34
198	30	13.33	13.33	0.	259.	0.00	0.47	4.55	4.55	268.	-136.	0.10	0.33
199	30	10.71	10.71	614.	324.	0.00	0.96	4.55	4.55	437.	101.	0.00	0.71
200	30	10.71	10.71	840.	435.	0.00	1.37	4.55	4.55	188.	170.	0.00	0.97
201	30	10.71	10.71	0.	483.	0.00	1.63	4.55	4.55	0.	183.	0.07	0.96

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
47	30	2.62	2.62	1317.	42.	0.15	1.39	4.55	4.55	824.	-31.	0.13	0.37
48	30	2.62	2.62	152.	48.	0.00	0.62	4.55	4.55	998.	19.	0.13	0.75
49	30	2.62	2.62	0.	42.	0.00	0.44	4.55	4.55	696.	20.	0.12	0.47
50	30	2.62	2.62	457.	54.	0.00	1.06	4.55	4.55	969.	-63.	0.25	0.49
51	30	13.33	13.33	408.	196.	0.00	0.47	4.55	4.55	1029.	-33.	0.16	0.70
52	30	10.71	10.71	0.	204.	0.00	0.51	4.55	4.55	551.	116.	0.00	1.08
53	30	10.71	10.71	100.	186.	0.00	0.50	4.55	4.55	792.	147.	0.00	1.12
54	30	10.71	10.71	624.	11.	0.05	0.47	4.55	4.55	611.	39.	0.08	0.46
194	30	2.62	2.62	2738.	26.	3.13	39.13	4.55	4.55	1619.	-31.	0.25	0.63
195	30	2.62	2.62	0.	28.	0.00	0.47	4.55	4.55	333.	17.	0.00	0.23
196	30	2.62	2.62	0.	35.	0.00	0.83	4.55	4.55	0.	2.	0.00	0.04
197	30	2.62	2.62	415.	70.	2.76	53.44	4.55	4.55	219.	-37.	0.11	0.18
198	30	13.33	13.33	1260.	259.	0.00	0.65	4.55	4.55	0.	-136.	0.06	0.14
199	30	10.71	10.71	0.	324.	0.00	0.82	4.55	4.55	74.	75.	0.00	0.55
200	30	10.71	10.71	0.	435.	0.00	1.22	4.55	4.55	0.	136.	0.00	0.97
201	30	10.71	10.71	670.	483.	0.00	1.85	4.55	4.55	533.	124.	0.16	1.19

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
47	0.9	0.4	0.6	48	0.1	1.1	0.9	49	0.1	1.2	1.0
50	0.7	0.6	0.7	51	0.7	0.3	0.6	52	0.2	0.9	0.9
53	0.2	0.9	0.7	54	1.0	0.6	0.7	194	1.4	0.9	1.2
195	0.4	0.2	0.3	196	0.3	0.2	0.2	197	1.3	1.0	1.2
198	1.4	1.2	1.3	199	0.4	0.1	0.3	200	0.4	0.2	0.3
201	1.7	0.7	1.5								

MACROGUSCIO muro\_2

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)

wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm

wkF = " " " " frequente (mm) - " " = 0.2 mm

wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
47	2.62	2.62	0.	13	0.00	249.	0.000	0.	10	0.00	190.	0.000	161	4	2.75	329.	0.000
48	2.62	2.62	684	7	12.19	1151.	0.000	675	7	12.02	1142.	0.000	617	2	11.07	960.	0.000
49	2.62	2.62	385	-4	6.92	495.	0.000	390	-2	7.03	545.	0.000	335	-10	5.81	312.	0.000
50	2.62	2.62	0.	-3	0.09	-1.	0.000	0.	-2	0.08	-1.	0.000	152	7	2.38	363.	0.000
51	13.33	13.33	0.	46	0.00	171.	0.000	0.	41	0.00	154.	0.000	0.	58	0.00	219.	0.000
52	10.71	10.71	296	103	0.00	597.	0.000	305	95	0.00	563.	0.000	262	77	0.00	464.	0.000
53	10.71	10.71	841	93	0.00	762.	0.000	825	92	0.00	750.	0.000	514	57	0.00	467.	0.000
54	10.71	10.71	0.	58	0.00	273.	0.000	0.	55	0.00	255.	0.000	0.	2	0.00	12.	0.000
194	2.62	2.62	0.	8	0.00	160.	0.000	0.	4	0.00	81.	0.000	0.	-5	0.15	-2.	0.000
195	2.62	2.62	1339	39	22.72	2754.	0.000	1329	33	22.89	2620.	0.000	1148	14	20.39	1986.	0.000
196	2.62	2.62	955	29	16.09	2000.	0.000	969	24	16.67	1924.	0.000	972	11	17.29	1672.	0.000
197	2.62	2.62	0.	26	0.00	502.	0.000	0.	24	0.00	450.	0.000	0.	20	0.00	378.	0.000
198	13.33	13.33	0.	93	0.00	349.	0.000	0.	86	0.00	322.	0.000	0.	88	0.00	330.	0.000
199	10.71	10.71	789	168	0.00	1089.	0.000	812	154	0.00	1036.	0.000	767	121	0.00	863.	0.000

200	10.71	10.71	951	214	0.00	1371.	0.000	945	200	0.00	1302.	0.000	863	161	0.00	1089.	0.000
201	10.71	10.71	0.	250	0.00	1165.	0.000	0.	222	0.00	1039.	0.000	0.	142	0.00	663.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
47	4.55	4.55	266	-30	3.07	1.	0.000	272	-26	3.63	4.	0.000	296	-21	3.57	64.	0.000
48	4.55	4.55	0.	-28	0.90	-13.	0.000	0.	-24	0.75	-11.	0.000	22	-14	0.58	-5.	0.000
49	4.55	4.55	0.	-65	2.08	-31.	0.000	0.	-59	1.88	-28.	0.000	0.	-43	1.38	-21.	0.000
50	4.55	4.55	0.	-106	3.37	-51.	0.000	0.	-92	2.95	-44.	0.000	0.	-84	2.68	-40.	0.000
51	4.55	4.55	0.	-53	1.69	-25.	0.000	0.	-47	1.49	-22.	0.000	0.	-37	1.18	-18.	0.000
52	4.55	4.55	0.	8	0.00	89.	0.000	0.	9	0.00	94.	0.000	0.	28	0.00	308.	0.000
53	4.55	4.55	122	-43	2.11	-11.	0.000	105	-34	1.71	-8.	0.000	55	5	0.17	109.	0.000
54	4.55	4.55	0.	-178	5.69	-85.	0.000	0.	-156	4.97	-75.	0.000	8	-107	3.47	-51.	0.000
194	4.55	4.55	0.	-51	1.62	-24.	0.000	0.	-47	1.49	-22.	0.000	191	-27	2.17	0.	0.000
195	4.55	4.55	414	-4	5.76	322.	0.000	407	-3	5.66	326.	0.000	496	4	6.77	476.	0.000
196	4.55	4.55	75	-29	1.37	-8.	0.000	86	-27	1.39	-7.	0.000	248	-8	3.41	136.	0.000
197	4.55	4.55	0.	-171	5.45	-82.	0.000	0.	-153	4.89	-73.	0.000	198	-81	3.78	-24.	0.000
198	4.55	4.55	0.	-76	2.42	-36.	0.000	0.	-66	2.10	-32.	0.000	0.	-52	1.66	-25.	0.000
199	4.55	4.55	0.	34	0.00	370.	0.000	13	32	0.00	363.	0.000	192	38	0.00	589.	0.000
200	4.55	4.55	0.	-15	0.47	-7.	0.000	8	-8	0.32	-3.	0.000	245	32	0.00	581.	0.000
201	4.55	4.55	0.	-154	4.92	-74.	0.000	0.	-130	4.16	-62.	0.000	0.	-63	2.01	-30.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
47	2.62	2.62	1272	13	22.66	2152.	0.000	1261	10	22.54	2075.	0.000	870	4	15.59	1385.	0.000
48	2.62	2.62	71	7	0.41	241.	0.000	59	7	0.00	226.	0.000	113	2	1.98	209.	0.000
49	2.62	2.62	0.	-4	0.14	-2.	0.000	0.	-2	0.06	-1.	0.000	0.	-10	0.33	-5.	0.000
50	2.62	2.62	615	-3	11.08	863.	0.000	622	-2	11.20	881.	0.000	650	7	11.58	1103.	0.000
51	13.33	13.33	461	46	0.50	315.	0.000	480	41	1.42	304.	0.000	498	58	0.00	374.	0.000
52	10.71	10.71	0.	103	0.00	482.	0.000	0.	95	0.00	445.	0.000	0.	77	0.00	362.	0.000
53	10.71	10.71	0.	93	0.00	435.	0.000	0.	92	0.00	429.	0.000	66	57	0.00	293.	0.000
54	10.71	10.71	1200	58	8.32	729.	0.000	1165	55	8.22	697.	0.000	783	2	7.06	310.	0.000
194	2.62	2.62	1852	8	33.23	2927.	0.000	1837	4	33.02	2825.	0.000	1393	-5	25.09	1993.	0.000
195	2.62	2.62	0.	39	0.00	735.	0.000	0.	33	0.00	620.	0.000	0.	14	0.00	268.	0.000
196	2.62	2.62	0.	29	0.00	558.	0.000	0.	24	0.00	464.	0.000	0.	11	0.00	216.	0.000
197	2.62	2.62	1216	26	21.13	2329.	0.000	1241	24	21.73	2314.	0.000	892	20	15.47	1719.	0.000
198	13.33	13.33	1079	93	3.13	684.	0.000	1065	86	3.75	652.	0.000	839	88	0.00	592.	0.000
199	10.71	10.71	0.	168	0.00	782.	0.000	0.	154	0.00	720.	0.000	0.	121	0.00	565.	0.000
200	10.71	10.71	0.	214	0.00	1000.	0.000	0.	200	0.00	934.	0.000	0.	161	0.00	754.	0.000
201	10.71	10.71	1621	250	0.00	1796.	0.137	1576	222	0.00	1652.	0.105	1206	142	0.00	1132.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
47	4.55	4.55	565	-30	7.32	197.	0.000	563	-26	7.46	232.	0.000	601	-21	8.18	307.	0.000
48	4.55	4.55	859	-28	11.75	458.	0.000	855	-24	11.79	500.	0.000	681	-14	9.46	447.	0.000
49	4.55	4.55	933	-65	11.27	205.	0.000	938	-59	11.67	251.	0.000	505	-43	7.91	13.	0.000
50	4.55	4.55	892	-106	10.15	4.	0.000	912	-92	11.20	8.	0.000	680	-84	7.68	2.	0.000
51	4.55	4.55	602	-53	8.85	13.	0.000	633	-47	7.52	124.	0.000	437	-37	6.96	12.	0.000
52	4.55	4.55	608	8	8.19	620.	0.000	631	9	8.50	645.	0.000	336	28	2.23	612.	0.000
53	4.55	4.55	329	-43	3.70	1.	0.000	329	-34	4.01	3.	0.000	524	5	7.12	517.	0.000
54	4.55	4.55	249	-178	4.16	-104.	0.000	240	-156	3.50	-92.	0.000	343	-107	1.32	-77.	0.000
194	4.55	4.55	482	-51	5.75	4.	0.000	477	-47	6.04	5.	0.000	394	-27	4.76	88.	0.000
195	4.55	4.55	67	-4	0.86	22.	0.000	55	-3	0.72	20.	0.000	13	4	0.00	55.	0.000
196	4.55	4.55	0.	-29	0.91	-14.	0.000	0.	-27	0.86	-13.	0.000	0.	-8	0.25	-4.	0.000
197	4.55	4.55	623	-171	1.63	-128.	0.000	511	-153	1.76	-111.	0.000	393	-81	0.16	-67.	0.000
198	4.55	4.55	454	-76	0.37	-70.	0.000	351	-66	0.05	-57.	0.000	95	-52	1.08	-32.	0.000
199	4.55	4.55	41	34	0.00	407.	0.000	27	32	0.00	375.	0.000	0.	38	0.00	413.	0.000
200	4.55	4.55	131	-15	1.51	1.	0.000	109	-8	1.27	19.	0.000	21	32	0.00	377.	0.000
201	4.55	4.55	696	-154	0.65	-125.	0.000	581	-130	0.59	-105.	0.000	478	-63	5.38	1.	0.000

MACROGUSCIO muro\_3

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
56	30	10.59	10.59	0.	55.	0.00	0.25	5.68	5.67	73.	80.	0.05	0.36
57	30	10.59	10.59	600.	137.	0.00	0.45	5.68	5.67	307.	147.	0.00	0.72
58	30	10.59	10.59	323.	142.	0.00	0.45	5.68	5.67	373.	85.	0.00	0.48
59	30	2.62	13.22	251.	127.	0.00	1.34	5.68	5.67	458.	-19.	0.07	0.14
60	30	2.62	2.62	0.	-4.	0.07	0.17	5.68	5.67	151.	-94.	0.06	-0.04
61	30	2.62	2.62	522.	-11.	0.11	0.37	5.68	5.67	229.	-34.	0.04	0.06
62	30	2.62	2.62	357.	-27.	0.12	0.44	5.68	5.67	544.	-31.	0.08	0.16
63	30	2.62	2.62	61.	-11.	0.02	0.11	5.68	5.67	156.	-117.	0.07	-0.04
64	30	2.62	2.62	0.	8.	0.01	0.11	5.68	5.67	58.	-112.	0.06	-0.04
65	30	2.62	2.62	389.	-4.	0.09	0.31	5.68	5.67	395.	-38.	0.07	0.11
66	30	2.62	2.62	187.	-36.	0.10	0.26	5.68	5.67	211.	-72.	0.06	0.03
67	30	2.62	2.62	92.	-11.	0.03	0.19	5.68	5.67	218.	-94.	0.07	-0.04
68	30	2.62	2.62	0.	31.	0.00	0.44	5.68	5.67	28.	-102.	0.05	-0.04
69	30	2.62	2.62	408.	24.	0.00	0.66	5.68	5.67	447.	-36.	0.07	0.13
70	30	2.62	2.62	248.	-17.	0.08	0.56	5.68	5.67	623.	-60.	0.11	0.17
71	30	2.62	2.62	310.	19.	0.00	0.52	5.68	5.67	121.	-124.	0.07	-0.04
72	30	2.62	2.62	0.	46.	0.00	0.62	5.68	5.67	140.	-115.	0.07	-0.04
73	30	2.62	2.62	417.	27.	0.00	0.72	5.68	5.67	153.	-56.	0.04	-0.03
74	30	2.62	2.62	229.	-9.	0.05	0.77	5.68	5.67	624.	-50.	0.10	0.17
75	30	2.62	2.62	320.	34.	0.00	0.63	5.68	5.67	377.	-119.	0.10	0.06
76	30	2.62	2.62	0.	35.	0.00	0.39	5.68	5.67	268.	-123.	0.09	0.04
77	30	2.62	2.62	143.	-4.	0.14	0.45	5.68	5.67	341.	-49.	0.07	0.09
78	30	2.62	2.62	186.	43.	0.00	0.52	5.68	5.67	40.	-31.	0.02	-0.01
203	30	10.59	10.59	0.	537.	0.00	1.34	5.68	5.67	222.	171.	0.07	0.79
204	30	10.59	10.59	850.	321.	0.00	0.99	5.68	5.67	354.	145.	0.00	0.73
205	30	10.59	10.59	1088.	189.	0.00	0.66	5.68	5.67	732.	52.	0.00	0.48
206	30	2.62	13.22	462.	109.	0.00	1.33	5.68	5.67	1063.	-52.	0.16	0.31
207	30	2.62	2.62	0.	18.	0.09	0.31	5.68	5.67	1074.	-132.	0.19	0.24
208	30	2.62	2.62	912.	14.	0.17	0.97	5.68	5.67	796.	-21.	0.11	0.25
209	30	2.62	2.62	1090.	-6.	0.24	0.88	5.68	5.67	883.	0.	0.11	0.30
210	30	2.62	2.62	543.	-46.	0.12	0.31	5.68	5.67	1261.	-95.	0.20	0.33
211	30	2.62	2.62	0.	11.	0.01	0.23	5.68	5.67	855.	-118.	0.16	0.19
212	30	2.62	2.62	793.	0.	0.15	0.84	5.68	5.67	649.	-13.	0.09	0.21
213	30	2.62	2.62	909.	-5.	0.17	0.92	5.68	5.67	807.	-27.	0.12	0.26
214	30	2.62	2.62	458.	7.	0.04	0.39	5.68	5.67	825.	-52.	0.13	0.24
215	30	2.62	2.62	0.	64.	0.00	0.91	5.68	5.67	1084.	-82.	0.17	0.29
216	30	2.62	2.62	920.	57.	0.00	1.54	5.68	5.67	698.	-2.	0.09	0.25
217	30	2.62	2.62	1073.	61.	0.00	1.64	5.68	5.67	914.	-20.	0.13	0.30
218	30	2.62	2.62	583.	72.	0.00	1.08	5.68	5.67	1188.	-92.	0.19	0.31
219	30	2.62	2.62	0.	111.	0.00	1.33	5.68	5.67	1157.	-87.	0.19	0.30
220	30	2.62	2.62	938.	93.	0.72	19.67	5.68	5.67	788.	-8.	0.10	0.27
221	30	2.62	2.62	1029.	101.	1.03	23.38	5.68	5.67	834.	-11.	0.11	0.29
222	30	2.62	2.62	617.	108.	0.00	1.45	5.68	5.67	1192.	-86.	0.19	0.32
223	30	2.62	2.62	0.	83.	0.00	0.88	5.68	5.67	336.	-157.	0.11	0.14
224	30	2.62	2.62	695.	56.	0.10	1.42	5.68	5.67	441.	2.	0.05	0.16
225	30	2.62	2.62	252.	50.	0.00	0.63	5.68	5.67	1323.	-11.	0.17	0.44

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
56	30	10.59	10.59	1146.	55.	0.00	0.46	5.67	5.68	658.	-58.	0.13	0.59
57	30	10.59	10.59	86.	137.	0.00	0.33	5.67	5.68	759.	154.	0.00	0.94
58	30	10.59	10.59	0.	142.	0.00	0.33	5.67	5.68	374.	102.	0.00	0.65
59	30	13.22	2.62	528.	127.	0.00	0.34	5.67	5.68	430.	13.	0.10	0.20
60	30	2.62	2.62	887.	-4.	0.21	0.72	5.67	5.68	130.	-96.	0.17	0.27
61	30	2.62	2.62	0.	-11.	0.02	0.06	5.67	5.68	598.	-60.	0.17	0.33
62	30	2.62	2.62	0.	-27.	0.01	0.19	5.67	5.68	758.	-30.	0.18	0.40
63	30	2.62	2.62	443.	-11.	0.15	0.69	5.67	5.68	834.	-73.	0.23	0.39
64	30	2.62	2.62	548.	8.	0.15	0.69	5.67	5.68	306.	-112.	0.24	0.41
65	30	2.62	2.62	0.	-4.	0.03	0.11	5.67	5.68	1197.	-50.	0.24	0.51
66	30	2.62	2.62	29.	-36.	0.06	0.13	5.67	5.68	1094.	-53.	0.24	0.49
67	30	2.62	2.62	388.	-11.	0.15	0.67	5.67	5.68	1385.	-94.	0.31	0.56
68	30	2.62	2.62	692.	31.	0.06	0.92	5.67	5.68	1775.	-102.	0.33	0.65
69	30	2.62	2.62	49.	24.	0.00	0.32	5.67	5.68	1461.	-43.	0.26	0.57
70	30	2.62	2.62	13.	-17.	0.05	0.18	5.67	5.68	1248.	-52.	0.26	0.52
71	30	2.62	2.62	583.	19.	0.07	0.94	5.67	5.68	1517.	-89.	0.33	0.59
72	30	2.62	2.62	551.	46.	0.01	1.15	5.67	5.68	1956.	-115.	0.36	0.68
73	30	2.62	2.62	84.	27.	0.00	0.35	5.67	5.68	1674.	-56.	0.29	0.62
74	30	2.62	2.62	0.	-9.	0.00	0.29	5.67	5.68	1440.	-53.	0.28	0.60
75	30	2.62	2.62	632.	34.	0.06	1.10	5.67	5.68	1860.	-78.	0.38	0.73
76	30	2.62	2.62	503.	35.	0.00	0.72	5.67	5.68	2030.	-123.	0.31	0.56
77	30	2.62	2.62	0.	-4.	0.01	-0.01	5.67	5.68	1320.	-60.	0.20	0.43
78	30	2.62	2.62	380.	43.	0.00	0.86	5.67	5.68	725.	-23.	0.10	0.23
203	30	10.59	10.59	1775.	537.	0.00	1.57	5.67	5.68	725.	73.	0.14	0.85
204	30	10.59	10.59	0.	321.	0.00	0.80	5.67	5.68	91.	131.	0.00	0.61

205	30	10.59	10.59	0.	189.	0.00	0.43	5.67	5.68	0.	68.	0.00	0.29
206	30	13.22	2.62	751.	109.	0.00	0.47	5.67	5.68	167.	13.	0.08	0.18
207	30	2.62	2.62	1594.	18.	0.25	1.31	5.67	5.68	0.	-144.	0.10	0.14
208	30	2.62	2.62	0.	14.	0.00	0.17	5.67	5.68	35.	-21.	0.01	-0.01
209	30	2.62	2.62	0.	-6.	0.00	0.00	5.67	5.68	0.	-20.	0.01	0.02
210	30	2.62	2.62	580.	-46.	0.31	1.11	5.67	5.68	109.	-34.	0.08	0.13
211	30	2.62	2.62	1080.	11.	0.20	1.04	5.67	5.68	0.	-135.	0.07	-0.06
212	30	2.62	2.62	0.	0.	0.00	0.11	5.67	5.68	0.	-5.	0.01	-0.01
213	30	2.62	2.62	0.	-5.	0.01	0.17	5.67	5.68	0.	-19.	0.01	-0.01
214	30	2.62	2.62	776.	7.	0.17	1.33	5.67	5.68	0.	-52.	0.06	-0.05
215	30	2.62	2.62	1318.	64.	0.08	1.60	5.67	5.68	0.	-123.	0.06	0.07
216	30	2.62	2.62	0.	57.	0.00	0.71	5.67	5.68	0.	4.	0.01	0.02
217	30	2.62	2.62	0.	61.	0.00	0.82	5.67	5.68	0.	-16.	0.02	0.03
218	30	2.62	2.62	822.	72.	1.69	32.51	5.67	5.68	0.	-47.	0.06	-0.06
219	30	6.30	2.62	1318.	111.	0.95	20.15	5.67	5.68	0.	-130.	0.07	-0.06
220	30	2.62	2.62	0.	93.	0.00	1.11	5.67	5.68	2.	-5.	0.01	-0.01
221	30	2.62	2.62	0.	101.	0.00	1.05	5.67	5.68	0.	-21.	0.01	0.01
222	30	2.62	2.62	672.	108.	1.21	29.88	5.67	5.68	176.	-35.	0.09	0.12
223	30	2.62	2.62	1167.	83.	0.02	1.71	5.67	5.68	0.	-157.	0.07	-0.07
224	30	2.62	2.62	0.	56.	0.00	0.74	5.67	5.68	0.	-2.	0.04	0.12
225	30	2.62	2.62	303.	50.	0.32	1.74	5.67	5.68	1019.	-8.	0.22	0.53

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
56	0.8	0.5	0.5	57	0.1	1.1	0.9	58	0.1	1.1	1.1
59	0.5	0.5	0.5	60	0.6	0.7	0.8	61	0.1	1.2	1.1
62	0.2	1.1	1.0	63	0.6	0.9	0.9	64	0.6	0.6	0.7
65	0.2	1.1	1.1	66	0.2	1.1	1.0	67	0.6	0.7	0.8
68	0.6	1.0	1.0	69	0.1	1.2	1.1	70	0.2	1.1	1.1
71	0.6	0.8	0.8	72	0.6	1.0	1.0	73	0.2	1.2	1.1
74	0.1	1.2	1.2	75	0.5	1.0	1.0	76	0.5	1.0	0.9
77	0.0	0.9	0.7	78	0.8	0.4	0.5	203	1.5	0.8	1.3
204	0.3	0.1	0.3	205	0.3	0.2	0.2	206	1.4	1.1	1.2
207	1.6	1.1	1.4	208	0.4	0.2	0.3	209	0.3	0.1	0.2
210	1.3	0.8	1.1	211	1.3	1.0	1.2	212	0.4	0.2	0.3
213	0.4	0.1	0.3	214	1.3	0.9	1.1	215	1.2	0.7	1.0
216	0.4	0.2	0.3	217	0.4	0.1	0.3	218	1.3	0.9	1.1
219	1.3	0.7	1.1	220	0.3	0.1	0.2	221	0.3	0.2	0.3
222	1.0	0.7	0.9	223	1.0	0.8	0.9	224	0.2	0.1	0.2
225	1.3	1.4	1.3								

MACROGUSCIO muro\_3

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)

wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
56	10.59	10.59	0.	10	0.00	48.	0.000	0.	14	0.00	68.	0.000	88	7	0.36	68.	0.000
57	10.59	10.59	551	39	2.85	398.	0.000	553	39	2.87	399.	0.000	533	24	3.86	317.	0.000
58	10.59	10.59	498	37	2.39	369.	0.000	460	36	2.02	349.	0.000	385	30	1.70	292.	0.000
59	2.62	13.22	34	-1	0.55	38.	0.000	35	1	0.59	71.	0.000	90	6	1.49	260.	0.000
60	2.62	2.62	7	-21	0.73	-10.	0.000	5	-19	0.66	-9.	0.000	54	-13	0.78	-2.	0.000
61	2.62	2.62	420	-32	5.60	107.	0.000	381	-29	5.07	97.	0.000	316	-29	4.57	6.	0.000
62	2.62	2.62	338	-30	5.11	7.	0.000	348	-27	4.62	87.	0.000	296	-26	4.40	6.	0.000
63	2.62	2.62	0.	-14	0.44	-7.	0.000	0.	-13	0.41	-6.	0.000	24	-10	0.49	-3.	0.000
64	2.62	2.62	0.	-7	0.23	-4.	0.000	0.	-6	0.18	-3.	0.000	0.	-3	0.11	-2.	0.000
65	2.62	2.62	140	-7	2.25	87.	0.000	272	-17	3.99	109.	0.000	220	-18	2.83	46.	0.000
66	2.62	2.62	111	-20	1.37	-1.	0.000	121	-19	1.43	0.	0.000	200	-32	2.37	0.	0.000
67	2.62	2.62	0.	-17	0.54	-8.	0.000	0.	-16	0.51	-8.	0.000	0.	-12	0.39	-6.	0.000
68	2.62	2.62	0.	-18	0.58	-9.	0.000	0.	-14	0.47	-7.	0.000	0.	-9	0.29	-4.	0.000

69	2.62	2.62	146	-12	1.90	32.	0.000	154	-8	2.38	79.	0.000	236	-7	4.09	217.	0.000
70	2.62	2.62	145	-8	2.20	70.	0.000	153	-7	2.49	99.	0.000	243	-18	3.26	64.	0.000
71	2.62	2.62	0.	-4	0.14	-2.	0.000	0.	-3	0.11	-2.	0.000	0.	-7	0.23	-3.	0.000
72	2.62	2.62	0.	-13	0.41	-6.	0.000	0.	-10	0.32	-5.	0.000	0.	-3	0.10	-1.	0.000
73	2.62	2.62	148	-7	2.41	97.	0.000	157	-5	2.71	140.	0.000	245	-5	4.33	264.	0.000
74	2.62	2.62	156	-2	2.80	187.	0.000	168	-6	2.84	135.	0.000	251	-9	4.28	211.	0.000
75	2.62	2.62	0.	-12	0.38	-6.	0.000	0.	-9	0.29	-4.	0.000	60	-3	0.95	35.	0.000
76	2.62	2.62	0.	-12	0.38	-6.	0.000	0.	-2	0.08	-1.	0.000	0.	0.	0.02	0.	0.000
77	2.62	2.62	303	-22	4.19	93.	0.000	297	-16	4.62	158.	0.000	278	-20	3.77	78.	0.000
78	2.62	2.62	0.	-4	0.14	-2.	0.000	0.	-2	0.07	-1.	0.000	15	-13	0.50	-5.	0.000
203	10.59	10.59	0.	123	0.00	579.	0.000	0.	116	0.00	546.	0.000	0.	66	0.00	314.	0.000
204	10.59	10.59	1162	124	0.00	1042.	0.000	1176	115	1.75	1006.	0.000	1019	66	5.88	704.	0.000
205	10.59	10.59	1298	37	10.54	672.	0.000	1271	36	10.31	658.	0.000	1029	21	8.72	493.	0.000
206	2.62	13.22	0.	-22	0.67	-10.	0.000	0.	-17	0.53	-8.	0.000	0.	-12	0.38	-6.	0.000
207	2.62	2.62	0.	-44	1.44	-22.	0.000	0.	-16	0.51	-8.	0.000	0.	-20	0.65	-10.	0.000
208	2.62	2.62	1195	-50	19.84	867.	0.000	1168	-45	19.69	918.	0.000	945	-46	15.16	580.	0.000
209	2.62	2.62	1104	-50	18.07	744.	0.000	1108	-45	18.54	837.	0.000	897	-45	14.26	525.	0.000
210	2.62	2.62	0.	-20	0.66	-10.	0.000	0.	-18	0.58	-9.	0.000	0.	-22	0.71	-11.	0.000
211	2.62	2.62	0.	-11	0.37	-5.	0.000	0.	-9	0.29	-4.	0.000	0.	-14	0.46	-7.	0.000
212	2.62	2.62	992	-30	17.20	919.	0.000	1011	-29	17.61	964.	0.000	813	-33	13.54	600.	0.000
213	2.62	2.62	955	-32	16.39	830.	0.000	950	-27	16.55	907.	0.000	780	-37	12.60	494.	0.000
214	2.62	2.62	0.	-3	0.08	-1.	0.000	0.	0.	0.01	0.	0.000	0.	-6	0.21	-3.	0.000
215	2.62	2.62	0.	-23	0.76	-11.	0.000	0.	-17	0.57	-9.	0.000	4	-15	0.52	-7.	0.000
216	2.62	2.62	1068	-5	19.24	1504.	0.000	1064	0.	19.15	1592.	0.000	882	-8	15.86	1169.	0.000
217	2.62	2.62	1072	-2	19.31	1572.	0.000	1062	3	19.07	1648.	0.000	881	-10	15.82	1118.	0.000
218	2.62	2.62	0.	-13	0.43	-7.	0.000	0.	-8	0.25	-4.	0.000	0.	-7	0.23	-3.	0.000
219	2.62	3.54	0.	-3	0.11	-2.	0.000	0.	1	0.00	19.	0.000	0.	1	0.00	26.	0.000
220	2.62	2.62	1105	16	19.52	1970.	0.000	1098	19	19.29	2011.	0.000	913	0.	16.44	1358.	0.000
221	2.62	2.62	1077	19	18.93	1970.	0.000	1081	20	18.94	2010.	0.000	907	0.	16.32	1357.	0.000
222	2.62	2.62	0.	-1	0.03	0.	0.000	0.	5	0.00	89.	0.000	92	3	1.52	201.	0.000
223	2.62	2.62	0.	4	0.00	67.	0.000	0.	6	0.00	123.	0.000	0.	-2	0.06	-1.	0.000
224	2.62	2.62	782	-3	14.08	1103.	0.000	796	9	14.15	1364.	0.000	698	-11	12.48	837.	0.000
225	2.62	2.62	0.	-5	0.17	-3.	0.000	0.	-5	0.16	-2.	0.000	0.	0.	0.01	0.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
56	5.68	5.67	52	-159	5.34	-72.	0.000	53	-138	4.66	-61.	0.000	87	-70	2.73	-27.	0.000
57	5.68	5.67	0.	-1	0.04	-1.	0.000	0.	2	0.00	15.	0.000	0.	23	0.00	207.	0.000
58	5.68	5.67	0.	-10	0.32	-5.	0.000	0.	-7	0.22	-3.	0.000	0.	11	0.00	100.	0.000
59	5.68	5.67	0.	-81	2.57	-38.	0.000	0.	-72	2.28	-34.	0.000	0.	-55	1.73	-26.	0.000
60	5.68	5.67	0.	-119	3.75	-56.	0.000	0.	-105	3.32	-50.	0.000	0.	-96	3.03	-45.	0.000
61	5.68	5.67	0.	-75	2.37	-36.	0.000	0.	-67	2.13	-32.	0.000	0.	-47	1.49	-22.	0.000
62	5.68	5.67	0.	-73	2.29	-34.	0.000	0.	-65	2.04	-31.	0.000	0.	-45	1.42	-21.	0.000
63	5.68	5.67	0.	-121	3.80	-57.	0.000	0.	-109	3.44	-52.	0.000	0.	-90	2.85	-43.	0.000
64	5.68	5.67	0.	-107	3.39	-51.	0.000	0.	-96	3.04	-46.	0.000	0.	-86	2.71	-41.	0.000
65	5.68	5.67	0.	-72	2.27	-34.	0.000	0.	-64	2.01	-30.	0.000	0.	-43	1.35	-20.	0.000
66	5.68	5.67	0.	-90	2.84	-43.	0.000	0.	-80	2.52	-38.	0.000	0.	-58	1.82	-27.	0.000
67	5.68	5.67	0.	-120	3.80	-57.	0.000	0.	-107	3.38	-51.	0.000	0.	-99	3.13	-47.	0.000
68	5.68	5.67	0.	-104	3.28	-49.	0.000	0.	-93	2.94	-44.	0.000	0.	-81	2.56	-38.	0.000
69	5.68	5.67	0.	-66	2.09	-31.	0.000	0.	-59	1.85	-28.	0.000	0.	-40	1.27	-19.	0.000
70	5.68	5.67	0.	-82	2.57	-39.	0.000	0.	-74	2.34	-35.	0.000	0.	-54	1.70	-26.	0.000
71	5.68	5.67	0.	-125	3.95	-59.	0.000	0.	-113	3.57	-54.	0.000	0.	-96	3.03	-46.	0.000
72	5.68	5.67	0.	-108	3.41	-51.	0.000	0.	-99	3.12	-47.	0.000	0.	-87	2.75	-41.	0.000
73	5.68	5.67	0.	-68	2.15	-32.	0.000	0.	-63	1.98	-30.	0.000	0.	-45	1.43	-21.	0.000
74	5.68	5.67	0.	-77	2.43	-36.	0.000	0.	-68	2.16	-32.	0.000	0.	-49	1.54	-23.	0.000
75	5.68	5.67	0.	-116	3.65	-55.	0.000	0.	-103	3.26	-49.	0.000	0.	-86	2.72	-41.	0.000
76	5.68	5.67	0.	-112	3.52	-53.	0.000	0.	-102	3.22	-48.	0.000	0.	-93	2.93	-44.	0.000
77	5.68	5.67	0.	-60	1.89	-28.	0.000	0.	-52	1.63	-24.	0.000	0.	-48	1.53	-23.	0.000
78	5.68	5.67	0.	-41	1.29	-19.	0.000	0.	-35	1.11	-17.	0.000	14	-31	1.06	-14.	0.000
203	5.68	5.67	0.	-169	5.33	-80.	0.000	0.	-143	4.50	-68.	0.000	0.	-77	2.42	-36.	0.000
204	5.68	5.67	145	-3	1.83	78.	0.000	190	0.	2.37	132.	0.000	337	25	2.39	466.	0.000
205	5.68	5.67	379	-3	4.75	243.	0.000	329	-1	4.10	222.	0.000	477	13	5.45	454.	0.000
206	5.68	5.67	308	-132	6.02	-40.	0.000	306	-116	5.51	-33.	0.000	484	-60	5.40	2.	0.000
207	5.68	5.67	78	-112	4.02	-48.	0.000	95	-100	3.71	-40.	0.000	251	-83	4.13	-21.	0.000
208	5.68	5.67	342	-25	3.87	61.	0.000	328	-21	3.79	71.	0.000	449	-16	5.60	189.	0.000
209	5.68	5.67	278	-39	3.11	0.	0.000	259	-34	2.88	1.	0.000	424	-14	5.28	180.	0.000
210	5.68	5.67	327	-145	6.53	-45.	0.000	312	-128	5.93	-38.	0.000	435	-76	5.02	-5.	0.000
211	5.68	5.67	161	-103	4.20	-37.	0.000	142	-91	3.71	-33.	0.000	241	-78	3.90	-19.	0.000
212	5.68	5.67	268	-21	2.98	41.	0.000	250	-17	2.85	47.	0.000	346	-12	4.31	144.	0.000
213	5.68	5.67	212	-48	2.80	-8.	0.000	180	-42	2.42	-7.	0.000	390	-20	4.69	116.	0.000
214	5.68	5.67	340	-147	6.69	-45.	0.000	317	-131	6.04	-39.	0.000	264	-83	4.19	-20.	0.000
215	5.68	5.67	384	-98	5.40	-19.	0.000	355	-87	4.87	-15.	0.000	497	-71	5.57	1.	0.000
216	5.68	5.67	271	-21	3.02	41.	0.000	251	-18	2.84	46.	0.000	331	-12	4.11	135.	0.000
217	5.68	5.67	280	-44	3.20	0.	0.000	243	-38	2.79	0.	0.000	443	-18	5.45	163.	0.000
218	5.68	5.67	391	-148	7.01	-42.	0.000	362	-131	6.32	-36.	0.000	292	-77	4.19	-15.	0.000
219	5.68	5.67	437	-100	5.78	-16.	0.000	402	-89	5.22	-13.	0.000	487	-73	5.51	0.	0.000
220	5.68	5.67	405	-23	4.80	106.	0.000	381	-20	4.56	110.	0.000	449	-14	5.61	199.	0.000
221	5.68	5.67	170	-42	2.33	-7.	0.000	154	-36	2.05	-6.	0.000	301	-16	3.59	85.	0.000
222	5.68	5.67	134	-102	4.02	-38.	0.000	163	-89	3.80	-30.	0.000	440	-71	4.89	-2.	0.000
223	5.68	5.67	0.	-87	2.74	-41.	0.000	213	-98	4.38	-31.	0.000	165	-66	3.08	-19.	0.000
224	5.68	5.67	98	-36	1.72	-10.	0.000	182	-35	2.20	-3.	0.000	264	-11	3.24	94.	0.000
225	5.68	5.67	0.	-77	2.42	-36.	0.000	0.	-70	2.21	-33.	0.000	0.	-26	0.84	-13.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
56	10.59	10.59	1107	10	9.83	473.	0.000	1123	14	9.85	498.	0.000	832	7	7.41	353.	0.000
57	10.59	10.59	0.	39	0.00	185.	0.000	0.	39	0.00	185.	0.000	53	24	0.00	133.	0.000
58	10.59	10.59	0.	37	0.00	175.	0.000	0.	36	0.00	170.	0.000	9	30	0.00	146.	0.000
59	13.22	2.62	755	-1	7.07	234.	0.000	748	1	6.95	237.	0.000	642	6	5.77	223.	0.000
60	2.62	2.62	743	-21	12.95	714.	0.000	731	-19	12.80	726.	0.000	617	-13	10.93	669.	0.000
61	2.62	2.62	0.	-32	1.04	-16.	0.000	0.	-29	0.95	-14.	0.000	31	-29	0.74	-16.	0.000
62	2.62	2.62	0.	-30	0.97	-15.	0.000	0.	-27	0.87	-13.	0.000	40	-26	0.61	-16.	0.000
63	2.62	2.62	678	-14	12.04	756.	0.000	683	-13	12.16	780.	0.000	632	-10	11.29	747.	0.000
64	2.62	2.62	598	-7	10.74	756.	0.000	583	-6	10.48	765.	0.000	572	-3	10.30	788.	0.000
65	2.62	2.62	120	-7	1.85	60.	0.000	0.	-17	0.56	-8.	0.000	47	-18	0.29	-12.	0.000
66	2.62	2.62	123	-20	0.12	-19.	0.000	119	-19	1.41	0.	0.000	43	-32	0.76	-19.	0.000
67	2.62	2.62	631	-17	11.06	631.	0.000	620	-16	10.89	631.	0.000	571	-12	10.12	625.	0.000
68	2.62	2.62	718	-18	12.63	735.	0.000	701	-14	12.45	775.	0.000	637	-9	11.40	780.	0.000
69	2.62	2.62	137	-12	2.22	4.	0.000	128	-8	1.84	47.	0.000	49	-7	0.57	0.	0.000
70	2.62	2.62	152	-8	2.36	80.	0.000	147	-7	2.37	91.	0.000	73	-18	0.13	-14.	0.000
71	2.62	2.62	674	-4	12.15	924.	0.000	661	-3	11.91	922.	0.000	653	-7	11.73	842.	0.000
72	2.62	2.62	753	-13	13.44	883.	0.000	739	-10	13.26	918.	0.000	666	-3	11.99	937.	0.000
73	2.62	2.62	155	-7	2.55	107.	0.000	149	-5	2.56	129.	0.000	77	-5	1.07	25.	0.000
74	2.62	2.62	152	-2	2.72	181.	0.000	139	-6	2.27	93.	0.000	45	-9	0.00	-8.	0.000
75	2.62	2.62	715	-12	12.76	843.	0.000	692	-9	12.41	861.	0.000	627	-3	11.30	878.	0.000
76	2.62	2.62	330	-12	5.62	274.	0.000	302	-2	5.43	406.	0.000	239	0.	4.30	347.	0.000
77	2.62	2.62	0.	-22	0.70	-10.	0.000	0.	-16	0.52	-8.	0.000	0.	-20	0.67	-10.	0.000
78	2.62	2.62	902	-4	16.25	1266.	0.000	877	-2	15.80	1267.	0.000	585	-13	10.36	635.	0.000
203	10.59	10.59	1568	123	6.92	1189.	0.021	1596	116	8.02	1165.	0.020	1184	66	7.64	770.	0.000
204	10.59	10.59	0.	124	0.00	585.	0.000	0.	115	0.00	545.	0.000	0.	66	0.00	310.	0.000
205	10.59	10.59	0.	37	0.00	175.	0.000	0.	36	0.00	172.	0.000	0.	21	0.00	99.	0.000
206	13.22	2.62	1623	-22	15.72	434.	0.000	1574	-17	15.15	434.	0.000	1156	-12	11.12	319.	0.000
207	2.62	2.62	1560	-44	27.19	1499.	0.000	1330	-16	23.87	1684.	0.000	1146	-20	20.45	1334.	0.000
208	2.62	2.62	0.	-50	1.63	-24.	0.000	0.	-45	1.46	-22.	0.000	0.	-46	1.50	-22.	0.000
209	2.62	2.62	0.	-50	1.62	-24.	0.000	0.	-45	1.45	-22.	0.000	0.	-45	1.48	-22.	0.000
210	2.62	2.62	1353	-20	24.22	1635.	0.000	1370	-18	24.56	1703.	0.000	1037	-22	18.38	1134.	0.000
211	2.62	2.62	1123	-11	20.19	1461.	0.000	1118	-9	20.12	1497.	0.000	999	-14	17.90	1223.	0.000
212	2.62	2.62	0.	-30	0.98	-15.	0.000	0.	-29	0.95	-14.	0.000	0.	-33	1.09	-16.	0.000
213	2.62	2.62	0.	-32	1.04	-16.	0.000	0.	-27	0.89	-13.	0.000	0.	-37	1.20	-18.	0.000
214	2.62	2.62	1148	-3	20.67	1665.	0.000	1141	0.	20.54	1694.	0.000	988	-6	17.80	1351.	0.000
215	2.62	2.62	1349	-23	24.07	1572.	0.000	1343	-17	24.08	1672.	0.000	1018	-15	18.21	1228.	0.000
216	2.62	2.62	0.	-5	0.15	-2.	0.000	0.	0.	0.00	3.	0.000	0.	-8	0.25	-4.	0.000
217	2.62	2.62	0.	-2	0.05	-1.	0.000	0.	3	0.00	63.	0.000	0.	-10	0.34	-5.	0.000
218	2.62	2.62	1289	-13	23.17	1669.	0.000	1274	-8	22.95	1752.	0.000	1129	-7	20.34	1551.	0.000
219	3.54	2.62	1440	-3	22.73	1556.	0.000	1429	1	22.49	1606.	0.000	1109	1	17.44	1254.	0.000
220	2.62	2.62	0.	16	0.00	314.	0.000	0.	19	0.00	364.	0.000	0.	0.	0.01	0.	0.000
221	2.62	2.62	0.	19	0.00	354.	0.000	0.	20	0.00	387.	0.000	0.	0.	0.00	3.	0.000
222	2.62	2.62	1028	-1	18.51	1517.	0.000	1150	5	20.65	1808.	0.000	848	3	15.23	1329.	0.000
223	2.62	2.62	507	4	9.07	825.	0.000	464	6	8.21	818.	0.000	221	-2	3.98	296.	0.000
224	2.62	2.62	0.	-3	0.11	-2.	0.000	0.	9	0.00	172.	0.000	0.	-11	0.35	-5.	0.000
225	2.62	2.62	1373	-5	24.74	1950.	0.000	1318	-5	23.74	1874.	0.000	937	0.	16.87	1395.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
56	5.67	5.68	562	-159	1.64	-116.	0.000	573	-138	0.89	-106.	0.000	666	-70	7.84	5.	0.000
57	5.67	5.68	840	-1	10.47	581.	0.000	859	2	10.65	621.	0.000	674	23	7.43	684.	0.000
58	5.67	5.68	875	-10	11.02	532.	0.000	918	-7	11.52	587.	0.000	575	11	6.80	506.	0.000
59	5.67	5.68	725	-81	8.26	4.	0.000	820	-72	11.88	18.	0.000	550	-55	6.74	5.	0.000
60	5.67	5.68	711	-119	0.52	-107.	0.000	807	-105	8.97	2.	0.000	586	-96	0.49	-88.	0.000
61	5.67	5.68	847	-75	12.05	17.	0.000	897	-67	10.03	145.	0.000	546	-47	8.17	13.	0.000
62	5.67	5.68	1007	-73	11.37	177.	0.000	1039	-65	12.11	239.	0.000	659	-45	7.54	130.	0.000
63	5.67	5.68	1128	-121	13.15	8.	0.000	1155	-109	15.02	16.	0.000	766	-90	8.60	3.	0.000
64	5.67	5.68	979	-107	11.26	6.	0.000	993	-96	12.50	11.	0.000	666	-86	7.40	2.	0.000
65	5.67	5.68	1019	-72	11.56	187.	0.000	1028	-64	11.99	239.	0.000	587	-43	6.62	102.	0.000
66	5.67	5.68	1050	-90	16.10	27.	0.000	1059	-80	11.83	170.	0.000	690	-58	11.24	22.	0.000
67	5.67	5.68	1172	-120	14.03	10.	0.000	1186	-107	16.37	21.	0.000	751	-99	8.35	2.	0.000
68	5.67	5.68	1221	-104	19.01	34.	0.000	1235	-93	13.78	197.	0.000	881	-81	11.84	14.	0.000
69	5.67	5.68	1149	-66	13.59	297.	0.000	1161	-59	14.00	354.	0.000	672	-40	7.89	164.	0.000
70	5.67	5.68	1132	-82	12.78	200.	0.000	1146	-74	13.25	247.	0.000	790	-54	9.03	154.	0.000
71	5.67	5.68	1195	-125	14.10	9.	0.000	1219	-113	16.15	18.	0.000	794	-96	8.87	3.	0.000
72	5.67	5.68	1223	-108	17.60	25.	0.000	1251	-99	13.81	180.	0.000	916	-87	11.81	12.	0.000
73	5.67	5.68	1188	-68	14.05	308.	0.000	1202	-63	14.43	353.	0.000	828	-45	9.87	229.	0.000
74	5.67	5.68	1281	-77	15.03	311.	0.000	1267	-68	15.14	357.	0.000	758	-49	8.77	164.	0.000
75	5.67	5.68	1447	-116	15.95	204.	0.000	1428	-103	16.10	249.	0.000	1000	-86	15.11	25.	0.000
76	5.67	5.68	1111	-112	13.52	11.	0.000	1095	-102	14.43	16.	0.000	735	-93	8.18	2.	0.000
77	5.67	5.68	686	-60	10.13	16.	0.000	677	-52	7.54	105.	0.000	502	-48	6.36	6.	0.000
78	5.67	5.68	324	-41	3.60	1.	0.000	320	-35	3.67	2.	0.000	296	-31	3.50	2.	0.000
203	5.67	5.68	808	-169	0.47	-138.	0.000	723	-143	0.15	-120.	0.000	556	-77	6.21	1.	0.000
204	5.67	5.68	0.	-3	0.09	-1.	0.000	0.	0.	0.01	0.	0.000	0.	25	0.00	223.	0.000
205	5.67	5.68	0.	-3	0.09	-1.	0.000	0.	-1	0.04	-1.	0.000	0.	13	0.00	117.	0.000
206	5.67	5.68	57	-132	3.82	-67.	0.000	35	-116	3.46	-58.	0.000	162	-60	0.90	-40.	0.000
207	5.67	5.68	52	-112	3.23	-57.	0.000	45	-100	2.87	-50.	0.000	0.	-83	2.62	-39.	0.000
208	5.67	5.68	0.	-25	0.78	-12.	0.000	0.	-21	0.67	-10.	0.000	0.	-16	0.49	-7.	0.000
209	5.67	5.68	0.	-39	1.22	-18.	0.000	0.	-34	1.06	-16.	0.000	0.	-14	0.46	-7.	0.000
210	5.67	5.68	0.	-145	4.57	-69.	0.000	0.	-128	4.05	-61.	0.00					



216	5.67	5.68	0.	-21	0.66	-10.	0.000	0.	-18	0.56	-8.	0.000	0.	-12	0.38	-6.	0.000
217	5.67	5.68	0.	-44	1.38	-21.	0.000	0.	-38	1.21	-18.	0.000	0.	-18	0.58	-9.	0.000
218	5.67	5.68	0.	-148	4.65	-70.	0.000	0.	-131	4.14	-62.	0.000	0.	-77	2.44	-37.	0.000
219	5.67	5.68	168	-100	2.15	-59.	0.000	188	-89	1.67	-56.	0.000	71	-73	1.87	-40.	0.000
220	5.67	5.68	0.	-23	0.73	-11.	0.000	9	-20	0.58	-10.	0.000	0.	-14	0.45	-7.	0.000
221	5.67	5.68	0.	-42	1.31	-20.	0.000	0.	-36	1.12	-17.	0.000	0.	-16	0.51	-8.	0.000
222	5.67	5.68	423	-102	0.67	-79.	0.000	408	-89	0.36	-72.	0.000	226	-71	0.88	-50.	0.000
223	5.67	5.68	125	-87	1.99	-50.	0.000	0.	-98	3.09	-46.	0.000	0.	-66	2.08	-31.	0.000
224	5.67	5.68	83	-36	0.63	-23.	0.000	0.	-35	1.11	-17.	0.000	0.	-11	0.36	-5.	0.000
225	5.67	5.68	330	-77	0.44	-60.	0.000	313	-70	0.34	-56.	0.000	309	-26	4.74	8.	0.000

MACROGUSCIO muro\_4

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

INFERIORE ORIZZONTALE												INFERIORE VERTICALE			
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF		
107	30	2.62	2.62	903.	-22.	0.23	0.87	4.54	4.54	762.	-72.	0.14	0.25		
108	30	2.62	2.62	105.	-11.	0.06	0.18	4.54	4.54	1267.	-51.	0.20	0.46		
109	30	2.62	2.62	0.	-22.	0.05	0.17	4.54	4.54	1730.	-48.	0.27	0.64		
110	30	2.62	2.62	453.	-16.	0.22	0.78	4.54	4.54	2669.	-114.	0.42	0.85		
111	30	2.62	2.62	707.	5.	0.12	0.84	4.54	4.54	2560.	-123.	0.41	0.79		
112	30	2.62	2.62	95.	24.	0.00	0.35	4.54	4.54	2117.	-53.	0.33	0.78		
113	30	2.62	2.62	0.	1.	0.07	0.26	4.54	4.54	2461.	-62.	0.38	0.88		
114	30	2.62	2.62	375.	8.	0.18	0.78	4.54	4.54	3009.	-106.	0.47	0.98		
115	30	10.71	10.71	1142.	84.	0.05	0.45	4.54	4.54	2728.	-71.	0.42	0.96		
116	30	10.71	10.71	462.	135.	0.00	0.38	4.54	4.54	1931.	30.	0.19	0.98		
117	30	10.71	10.71	0.	138.	0.00	0.34	4.54	4.54	1212.	82.	0.00	0.95		
118	30	10.71	10.71	217.	14.	0.04	0.21	4.54	4.54	1088.	17.	0.10	0.62		
254	30	2.62	2.62	2679.	-19.	0.51	1.78	4.54	4.54	814.	-59.	0.14	0.28		
255	30	2.62	2.62	6.	12.	0.01	0.18	4.54	4.54	464.	-8.	0.07	0.19		
256	30	2.62	2.62	0.	-3.	0.01	0.05	4.54	4.54	0.	-22.	0.01	-0.01		
257	30	2.62	2.62	916.	6.	0.28	1.51	4.54	4.54	345.	-163.	0.12	0.18		
258	30	2.62	2.62	1165.	33.	0.25	1.39	4.54	4.54	149.	-152.	0.09	0.13		
259	30	2.62	2.62	0.	37.	0.00	0.46	4.54	4.54	225.	-3.	0.03	0.09		
260	30	2.62	2.62	0.	51.	0.00	0.70	4.54	4.54	217.	-24.	0.04	0.08		
261	30	2.62	2.62	489.	47.	0.00	1.40	4.54	4.54	277.	-159.	0.11	0.06		
262	30	10.71	10.71	1643.	149.	0.00	0.65	4.54	4.54	402.	-154.	0.13	0.25		
263	30	10.71	10.71	23.	203.	0.00	0.50	4.54	4.54	400.	31.	0.00	0.33		
264	30	10.71	10.71	0.	285.	0.00	0.77	4.54	4.54	0.	123.	0.00	0.65		
265	30	10.71	10.71	0.	430.	0.00	1.48	4.54	4.54	11.	390.	0.00	2.04		

SUPERIORE ORIZZONTALE												SUPERIORE VERTICALE			
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF		
107	30	2.62	2.62	0.	-22.	0.06	0.23	4.54	4.54	0.	-58.	0.06	-0.03		
108	30	2.62	2.62	828.	-11.	0.16	0.57	4.54	4.54	31.	-55.	0.06	0.09		
109	30	2.62	2.62	407.	-22.	0.14	0.46	4.54	4.54	0.	-36.	0.03	-0.02		
110	30	2.62	2.62	189.	-16.	0.04	0.12	4.54	4.54	0.	-81.	0.06	-0.06		
111	30	2.62	2.62	0.	5.	0.00	0.29	4.54	4.54	0.	-139.	0.06	-0.06		
112	30	2.62	2.62	144.	24.	0.00	0.44	4.54	4.54	0.	-53.	0.03	-0.03		
113	30	2.62	2.62	217.	1.	0.05	0.17	4.54	4.54	0.	-55.	0.04	-0.04		
114	30	2.62	2.62	0.	8.	0.00	0.23	4.54	4.54	0.	-110.	0.06	-0.06		
115	30	10.71	10.71	0.	84.	0.00	0.25	4.54	4.54	0.	-103.	0.05	-0.05		
116	30	10.71	10.71	497.	135.	0.00	0.45	4.54	4.54	0.	14.	0.00	0.31		
117	30	10.71	10.71	284.	138.	0.00	0.43	4.54	4.54	0.	86.	0.00	0.45		
118	30	10.71	10.71	601.	14.	0.04	0.27	9.57	4.54	0.	52.	0.00	0.27		
254	30	2.62	2.62	0.	-19.	0.05	0.14	4.54	4.54	0.	-93.	0.16	0.33		
255	30	2.62	2.62	998.	12.	0.27	1.29	4.54	4.54	512.	-8.	0.08	0.22		
256	30	2.62	2.62	1134.	-3.	0.22	1.00	4.54	4.54	293.	-22.	0.12	0.32		

257	30	2.62	2.62	511.	6.	0.05	0.43	4.54	4.54	714.	-43.	0.12	0.26
258	30	2.62	2.62	0.	33.	0.00	0.37	4.54	4.54	0.	-152.	0.09	0.19
259	30	2.62	2.62	698.	37.	0.00	1.10	4.54	4.54	693.	-3.	0.10	0.29
260	30	2.62	2.62	538.	51.	0.00	1.13	4.54	4.54	85.	-20.	0.02	0.03
261	30	2.62	2.62	0.	47.	0.00	0.72	4.54	4.54	0.	-56.	0.07	-0.07
262	30	10.71	10.71	0.	149.	0.00	0.39	4.54	4.54	54.	-154.	0.20	0.30
263	30	10.71	10.71	791.	203.	0.00	0.68	4.54	4.54	904.	31.	0.00	0.58
264	30	10.71	10.71	961.	285.	0.00	0.94	4.54	4.54	310.	66.	0.00	0.74
265	30	10.71	10.71	905.	430.	0.00	1.52	9.57	4.54	356.	248.	0.00	34.98

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
107	1.0	0.4	0.6	108	0.1	1.1	0.9	109	0.2	1.1	1.1
110	0.6	1.1	1.1	111	0.6	0.8	0.9	112	0.2	1.1	1.1
113	0.2	1.2	1.2	114	0.7	1.1	1.0	115	0.7	1.4	1.3
116	0.3	1.2	1.2	117	0.1	1.2	1.1	118	0.5	0.8	0.6
254	1.5	0.1	1.2	255	0.4	0.2	0.3	256	0.3	0.2	0.3
257	1.2	0.6	1.0	258	1.2	0.9	1.1	259	0.4	0.1	0.3
260	0.4	0.2	0.3	261	1.1	0.5	0.9	262	1.1	0.4	0.9
263	0.5	0.3	0.4	264	0.2	0.2	0.2	265	0.6	0.8	0.7

MACROGUSCIO muro\_4

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	- forze	: [dan]
momenti	: [daNcm/cm]	- tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	- angoli	: [gradi]
armature	: [cm2]		

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
107	2.62	2.62	1263	-5	22.76	1781.	0.000	1278	-6	23.02	1792.	0.000	814	-6	14.66	1096.	0.000
108	2.62	2.62	19	-14	0.58	-5.	0.000	24	-11	0.52	-4.	0.000	75	-16	0.99	-2.	0.000
109	2.62	2.62	193	-9	3.11	120.	0.000	175	-10	2.67	85.	0.000	20	-13	0.54	-5.	0.000
110	2.62	2.62	851	-19	15.05	907.	0.000	824	-18	14.60	898.	0.000	746	-12	13.35	895.	0.000
111	2.62	2.62	643	-14	11.37	689.	0.000	627	-11	11.17	722.	0.000	635	-5	11.43	862.	0.000
112	2.62	2.62	177	-13	2.41	50.	0.000	169	-10	2.55	78.	0.000	104	-26	1.49	-5.	0.000
113	2.62	2.62	229	-11	3.71	147.	0.000	209	-9	3.45	147.	0.000	92	-25	1.40	-5.	0.000
114	2.62	2.62	769	-15	13.67	864.	0.000	735	-12	13.13	862.	0.000	679	-5	12.22	921.	0.000
115	10.71	10.71	1137	-17	10.69	357.	0.000	1059	-14	9.92	342.	0.000	930	-4	8.56	335.	0.000
116	10.71	10.71	492	1	4.45	193.	0.000	431	2	3.86	175.	0.000	266	-8	2.54	68.	0.000
117	10.71	10.71	0.	-2	0.07	-1.	0.000	0.	0.	0.01	0.	0.000	0.	-8	0.25	-4.	0.000
118	10.71	10.71	323	-5	3.05	100.	0.000	365	-3	3.39	127.	0.000	385	-15	3.69	86.	0.000
254	2.62	2.62	1913	-8	34.45	2698.	0.000	1939	-12	34.92	2661.	0.000	1514	-8	27.27	2099.	0.000
255	2.62	2.62	0.	-2	0.06	-1.	0.000	0.	-3	0.11	-2.	0.000	0.	-16	0.52	-8.	0.000
256	2.62	2.62	0.	4	0.00	79.	0.000	0.	2	0.00	35.	0.000	0.	-14	0.46	-7.	0.000
257	2.62	2.62	1323	-19	23.69	1607.	0.000	1293	-17	23.18	1601.	0.000	959	-18	17.08	1095.	0.000
258	2.62	2.62	1103	-32	19.17	1040.	0.000	1078	-26	18.99	1122.	0.000	978	-24	17.20	1001.	0.000
259	2.62	2.62	0.	-12	0.38	-6.	0.000	0.	-6	0.20	-3.	0.000	0.	-26	0.83	-12.	0.000
260	2.62	2.62	0.	-20	0.65	-10.	0.000	0.	-6	0.19	-3.	0.000	0.	-26	0.83	-12.	0.000
261	2.62	2.62	992	-35	16.93	834.	0.000	998	-26	17.50	999.	0.000	899	-24	15.73	888.	0.000
262	10.71	10.71	1566	-16	14.60	525.	0.000	1497	-10	13.84	527.	0.000	1175	-8	10.88	411.	0.000
263	10.71	10.71	0.	17	0.00	79.	0.000	0.	20	0.00	92.	0.000	0.	-1	0.03	0.	0.000
264	10.71	10.71	0.	48	0.00	223.	0.000	0.	48	0.00	223.	0.000	0.	15	0.00	69.	0.000
265	10.71	10.71	469	40	1.61	369.	0.000	646	42	3.71	441.	0.000	479	12	3.93	238.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
107	4.54	4.54	337	-70	4.30	-9.	0.000	340	-60	4.01	-4.	0.000	362	-54	4.14	0.	0.000
108	4.54	4.54	912	-62	11.11	212.	0.000	887	-52	11.22	265.	0.000	655	-41	8.15	176.	0.000

109	4.54	4.54	1385	-78	17.71	444.	0.000	1312	-72	16.85	433.	0.000	808	-49	10.15	229.	0.000
110	4.54	4.54	1841	-153	21.06	268.	0.000	1714	-139	19.77	268.	0.000	1187	-112	15.71	16.	0.000
111	4.54	4.54	1562	-161	18.98	13.	0.000	1439	-143	18.01	15.	0.000	1029	-127	11.63	4.	0.000
112	4.54	4.54	1574	-105	19.29	381.	0.000	1460	-93	18.12	383.	0.000	1001	-63	12.44	266.	0.000
113	4.54	4.54	1733	-107	21.69	482.	0.000	1574	-95	19.82	455.	0.000	1005	-64	12.49	267.	0.000
114	4.54	4.54	2183	-166	25.71	401.	0.000	1952	-147	23.05	365.	0.000	1314	-132	16.32	13.	0.000
115	4.54	4.54	2392	-142	30.21	706.	0.000	2149	-126	27.22	647.	0.000	1581	-108	19.23	364.	0.000
116	4.54	4.54	2002	-62	27.50	1106.	0.000	1832	-54	25.22	1035.	0.000	1194	-32	16.49	707.	0.000
117	4.54	4.54	1297	-36	17.89	754.	0.000	1185	-31	16.39	711.	0.000	671	-26	9.07	322.	0.000
118	4.54	5.80	1045	-59	13.11	330.	0.000	1007	-50	12.94	374.	0.000	808	-70	12.04	19.	0.000
254	4.54	4.54	271	-104	4.99	-30.	0.000	261	-92	4.54	-25.	0.000	197	-63	3.22	-16.	0.000
255	4.54	4.54	0.	-31	1.00	-15.	0.000	0.	-25	0.81	-12.	0.000	20	-19	0.72	-7.	0.000
256	4.54	4.54	0.	-46	1.46	-22.	0.000	0.	-40	1.29	-19.	0.000	0.	-19	0.62	-9.	0.000
257	4.54	4.54	155	-191	7.04	-80.	0.000	136	-170	6.24	-71.	0.000	202	-94	4.25	-30.	0.000
258	4.54	4.54	50	-141	4.80	-64.	0.000	34	-123	4.13	-56.	0.000	0.	-105	3.35	-50.	0.000
259	4.54	4.54	142	-35	1.99	-6.	0.000	116	-29	1.65	-6.	0.000	23	-22	0.84	-9.	0.000
260	4.54	4.54	0.	-61	1.95	-29.	0.000	0.	-53	1.70	-26.	0.000	0.	-22	0.70	-10.	0.000
261	4.54	4.54	63	-204	6.91	-93.	0.000	35	-180	5.96	-84.	0.000	0.	-112	3.56	-53.	0.000
262	4.54	4.54	300	-138	6.25	-44.	0.000	280	-121	5.59	-37.	0.000	231	-101	4.63	-31.	0.000
263	4.54	4.54	47	-15	0.76	-4.	0.000	22	-12	0.51	-4.	0.000	0.	-8	0.26	-4.	0.000
264	4.54	4.54	0.	-33	1.04	-16.	0.000	0.	-27	0.86	-13.	0.000	0.	-7	0.23	-3.	0.000
265	4.54	5.80	0.	-144	4.56	-68.	0.000	0.	-124	3.95	-59.	0.000	83	-69	2.69	-27.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
107	2.62	2.62	0.	-5	0.18	-3.	0.000	0.	-6	0.20	-3.	0.000	0.	-6	0.20	-3.	0.000
108	2.62	2.62	479	-14	8.32	451.	0.000	503	-11	8.89	538.	0.000	483	-16	8.31	428.	0.000
109	2.62	2.62	157	-9	2.37	72.	0.000	160	-10	2.36	66.	0.000	269	-13	4.34	169.	0.000
110	2.62	2.62	0.	-19	0.63	-9.	0.000	0.	-18	0.57	-9.	0.000	0.	-12	0.37	-6.	0.000
111	2.62	2.62	0.	-14	0.47	-7.	0.000	0.	-11	0.37	-5.	0.000	0.	-5	0.15	-2.	0.000
112	2.62	2.62	48	-13	0.11	-10.	0.000	60	-10	0.06	-9.	0.000	120	-26	0.06	-22.	0.000
113	2.62	2.62	0.	-11	0.35	-5.	0.000	0.	-9	0.29	-4.	0.000	81	-25	0.30	-18.	0.000
114	2.62	2.62	0.	-15	0.49	-7.	0.000	0.	-12	0.40	-6.	0.000	0.	-5	0.16	-2.	0.000
115	10.71	10.71	0.	-17	0.53	-8.	0.000	0.	-14	0.43	-6.	0.000	0.	-4	0.13	-2.	0.000
116	10.71	10.71	170	1	1.51	70.	0.000	168	2	1.46	75.	0.000	308	-8	2.93	84.	0.000
117	10.71	10.71	131	-2	1.24	39.	0.000	121	0.	1.11	44.	0.000	233	-8	2.23	54.	0.000
118	10.71	10.71	274	-5	2.60	81.	0.000	258	-3	2.41	86.	0.000	294	-15	2.82	53.	0.000
254	2.62	2.62	0.	-8	0.27	-4.	0.000	0.	-12	0.40	-6.	0.000	0.	-8	0.27	-4.	0.000
255	2.62	2.62	1105	-2	19.90	1617.	0.000	1110	-3	19.99	1593.	0.000	1012	-16	18.09	1208.	0.000
256	2.62	2.62	1049	4	18.83	1646.	0.000	1051	2	18.89	1604.	0.000	880	-14	15.72	1045.	0.000
257	2.62	2.62	0.	-19	0.63	-9.	0.000	0.	-17	0.56	-8.	0.000	0.	-18	0.58	-9.	0.000
258	2.62	2.62	0.	-32	1.05	-16.	0.000	0.	-26	0.84	-13.	0.000	0.	-24	0.79	-12.	0.000
259	2.62	2.62	822	-12	14.72	1004.	0.000	836	-6	15.04	1128.	0.000	712	-26	12.11	589.	0.000
260	2.62	2.62	535	-20	9.04	428.	0.000	696	-6	12.52	925.	0.000	592	-26	9.78	418.	0.000
261	2.62	2.62	0.	-35	1.13	-17.	0.000	0.	-26	0.85	-13.	0.000	0.	-24	0.79	-12.	0.000
262	10.71	10.71	0.	-16	0.49	-7.	0.000	0.	-10	0.30	-4.	0.000	0.	-8	0.25	-4.	0.000
263	10.71	10.71	1080	17	9.30	489.	0.000	1069	20	9.10	497.	0.000	916	-1	8.36	345.	0.000
264	10.71	10.71	1019	48	7.19	611.	0.000	1039	48	7.39	617.	0.000	915	15	7.86	416.	0.000
265	10.71	10.71	454	40	1.38	364.	0.000	191	42	0.00	269.	0.000	398	12	3.17	208.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
107	4.54	4.54	0.	-70	2.23	-33.	0.000	0.	-60	1.93	-29.	0.000	0.	-54	1.72	-26.	0.000
108	4.54	4.54	0.	-62	1.98	-30.	0.000	0.	-52	1.67	-25.	0.000	0.	-41	1.31	-20.	0.000
109	4.54	4.54	0.	-78	2.48	-37.	0.000	0.	-72	2.30	-35.	0.000	0.	-49	1.57	-24.	0.000
110	4.54	4.54	0.	-153	4.88	-73.	0.000	0.	-139	4.42	-66.	0.000	0.	-112	3.57	-54.	0.000
111	4.54	4.54	0.	-161	5.12	-77.	0.000	0.	-143	4.55	-68.	0.000	0.	-127	4.04	-61.	0.000
112	4.54	4.54	0.	-105	3.34	-50.	0.000	0.	-93	2.97	-45.	0.000	0.	-63	2.02	-30.	0.000
113	4.54	4.54	0.	-107	3.40	-51.	0.000	0.	-95	3.02	-45.	0.000	0.	-64	2.03	-30.	0.000
114	4.54	4.54	0.	-166	5.28	-79.	0.000	0.	-147	4.68	-70.	0.000	0.	-132	4.19	-63.	0.000
115	4.54	4.54	0.	-142	4.53	-68.	0.000	0.	-126	4.02	-60.	0.000	0.	-108	3.44	-52.	0.000
116	4.54	4.54	0.	-62	1.97	-29.	0.000	0.	-54	1.73	-26.	0.000	0.	-32	1.02	-15.	0.000
117	4.54	4.54	0.	-36	1.15	-17.	0.000	0.	-31	0.99	-15.	0.000	0.	-26	0.82	-12.	0.000
118	5.80	4.54	0.	-59	1.87	-28.	0.000	0.	-50	1.59	-24.	0.000	0.	-70	2.22	-33.	0.000
254	4.54	4.54	34	-104	3.11	-52.	0.000	44	-92	2.67	-47.	0.000	95	-63	1.43	-37.	0.000
255	4.54	4.54	356	-31	5.27	8.	0.000	360	-25	4.34	77.	0.000	418	-19	5.56	175.	0.000
256	4.54	4.54	149	-46	0.55	-33.	0.000	165	-40	0.28	-32.	0.000	249	-19	2.91	43.	0.000
257	4.54	4.54	170	-191	5.04	-104.	0.000	194	-170	4.22	-95.	0.000	327	-94	1.00	-69.	0.000
258	4.54	4.54	0.	-141	4.49	-67.	0.000	18	-123	3.81	-60.	0.000	94	-105	2.77	-57.	0.000
259	4.54	4.54	217	-35	0.22	-33.	0.000	225	-29	2.53	1.	0.000	289	-22	3.40	52.	0.000
260	4.54	4.54	126	-61	1.18	-39.	0.000	122	-53	0.95	-35.	0.000	116	-22	0.01	-19.	0.000
261	4.54	4.54	209	-204	5.24	-113.	0.000	212	-180	4.45	-102.	0.000	113	-112	2.87	-62.	0.000
262	4.54	4.54	262	-138	2.80	-85.	0.000	253	-121	2.32	-77.	0.000	328	-101	1.21	-72.	0.000
263	4.54	4.54	284	-15	3.70	102.	0.000	265	-12	3.52	112.	0.000	323	-8	4.47	196.	0.000
264	4.54	4.54	219	-33	2.50	0.	0.000	225	-27	2.55	1.	0.000	258	-7	3.56	150.	0.000
265	5.80	4.54	599	-144	0.91	-112.	0.000	510	-124	0.84	-96.	0.000	480	-69	5.45	1.	0.000

MACROGUSCIO muro\_5

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
122	30	5.25	5.25	587.	2.	0.10	0.24	4.58	4.58	1331.	-122.	0.24	0.38
123	30	5.25	5.25	0.	64.	0.00	0.33	4.58	4.58	984.	33.	0.02	0.59
124	30	5.25	5.25	170.	84.	0.00	0.53	4.58	4.58	1985.	-13.	0.29	0.81
125	30	5.25	5.25	728.	60.	0.05	0.71	4.58	4.58	1997.	-97.	0.32	0.64
126	30	2.62	2.62	768.	-23.	0.18	0.60	4.58	4.58	1869.	-109.	0.31	0.58
127	30	2.62	2.62	48.	-36.	0.07	0.16	4.58	4.58	1911.	-68.	0.30	0.67
128	30	2.62	2.62	0.	-48.	0.07	0.18	4.58	4.58	1907.	-60.	0.30	0.68
129	30	2.62	2.62	708.	-5.	0.21	0.77	4.58	4.58	1806.	-128.	0.31	0.53
130	30	2.62	2.62	982.	-21.	0.20	0.71	4.58	4.58	1932.	-122.	0.32	0.58
131	30	2.62	2.62	10.	-11.	0.05	0.13	4.58	4.58	2025.	-52.	0.31	0.74
132	30	2.62	2.62	0.	-43.	0.04	0.10	4.58	4.58	1929.	-44.	0.29	0.72
133	30	2.62	2.62	672.	1.	0.15	0.81	4.58	4.58	2233.	-115.	0.36	0.69
134	30	2.62	2.62	894.	24.	0.13	0.99	4.58	4.58	2504.	-105.	0.40	0.80
135	30	2.62	2.62	178.	21.	0.00	0.43	4.58	4.58	2188.	-23.	0.32	0.87
136	30	2.62	2.62	0.	-18.	0.04	0.15	4.58	4.58	2059.	-25.	0.31	0.81
137	30	2.62	2.62	691.	10.	0.15	0.93	4.58	4.58	2412.	-72.	0.37	0.84
138	30	2.62	2.62	677.	24.	0.05	0.80	4.58	4.58	1929.	-92.	0.31	0.64
139	30	2.62	2.62	0.	-24.	0.02	-0.02	4.58	4.58	1081.	-24.	0.17	0.42
140	30	2.62	2.62	444.	-9.	0.17	0.59	4.58	4.58	553.	-19.	0.09	0.23
269	30	5.25	5.25	530.	317.	0.00	1.78	4.58	4.58	0.	98.	0.01	0.51
270	30	5.25	5.25	0.	216.	0.00	1.13	4.58	4.58	0.	83.	0.00	0.43
271	30	5.25	5.25	0.	134.	0.00	0.65	4.58	4.58	366.	29.	0.00	0.31
272	30	5.25	5.25	1023.	91.	0.04	1.06	4.58	4.58	378.	-145.	0.13	0.26
273	30	2.62	2.62	1143.	17.	0.23	1.06	4.58	4.58	91.	-169.	0.09	0.08
274	30	2.62	2.62	0.	-6.	0.02	-0.02	4.58	4.58	113.	-24.	0.03	0.03
275	30	2.62	2.62	0.	-1.	0.03	-0.03	4.58	4.58	120.	-17.	0.02	0.04
276	30	2.62	2.62	863.	-22.	0.31	1.11	4.58	4.58	0.	-175.	0.10	0.11
277	30	2.62	2.62	1524.	26.	0.22	1.34	4.58	4.58	727.	-72.	0.14	0.23
278	30	2.62	2.62	0.	-4.	0.03	0.06	4.58	4.58	0.	14.	0.00	0.08
279	30	2.62	2.62	0.	8.	0.02	0.08	4.58	4.58	183.	-3.	0.03	0.08
280	30	2.62	2.62	638.	35.	0.34	1.31	4.58	4.58	1075.	-81.	0.19	0.35
281	30	2.62	2.62	1465.	67.	0.15	1.67	4.58	4.58	565.	-196.	0.19	0.36
282	30	2.62	2.62	0.	58.	0.00	0.76	4.58	4.58	333.	7.	0.01	0.18
283	30	2.62	2.62	0.	62.	0.00	0.77	4.58	4.58	316.	-1.	0.05	0.13
284	30	2.62	2.62	864.	66.	0.28	1.83	4.58	4.58	1784.	-103.	0.30	0.56
285	30	2.62	2.62	1570.	50.	0.19	1.60	4.58	4.58	1760.	-28.	0.26	0.69
286	30	2.62	2.62	0.	22.	0.01	0.37	4.58	4.58	506.	-1.	0.07	0.21
287	30	2.62	2.62	241.	28.	0.31	1.13	4.58	4.58	1147.	-12.	0.17	0.47

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
122	30	5.25	5.25	340.	2.	0.07	0.16	4.58	4.58	0.	-151.	0.09	-0.07
123	30	5.25	5.25	267.	64.	0.00	0.47	4.58	4.58	0.	19.	0.00	0.26
124	30	5.25	5.25	494.	84.	0.00	0.68	4.58	4.58	0.	27.	0.01	0.21
125	30	5.25	5.25	319.	60.	0.00	0.39	4.58	4.58	0.	-61.	0.05	-0.05
126	30	2.62	2.62	0.	-23.	0.02	-0.02	4.58	4.58	0.	-122.	0.06	-0.06
127	30	2.62	2.62	126.	-36.	0.09	0.16	4.58	4.58	0.	-79.	0.04	-0.04
128	30	2.62	2.62	195.	-48.	0.13	0.32	4.58	4.58	0.	-47.	0.03	-0.03
129	30	2.62	2.62	0.	-5.	0.02	0.03	4.58	4.58	0.	-91.	0.07	-0.07
130	30	2.62	2.62	0.	-21.	0.02	0.05	4.58	4.58	0.	-140.	0.06	-0.06
131	30	2.62	2.62	480.	-11.	0.13	0.33	4.58	4.58	0.	-49.	0.02	-0.02
132	30	2.62	2.62	245.	-43.	0.15	0.40	4.58	4.58	0.	-32.	0.02	-0.02
133	30	2.62	2.62	13.	1.	0.00	0.25	4.58	4.58	0.	-72.	0.06	-0.06
134	30	2.62	2.62	0.	24.	0.00	0.35	4.58	4.58	0.	-135.	0.06	-0.06
135	30	2.62	2.62	330.	21.	0.00	0.54	4.58	4.58	0.	-30.	0.01	-0.01
136	30	2.62	2.62	225.	-18.	0.13	0.56	4.58	4.58	0.	-15.	0.02	-0.01
137	30	2.62	2.62	297.	10.	0.00	0.34	4.58	4.58	0.	-58.	0.04	-0.04
138	30	2.62	2.62	0.	24.	0.00	0.31	4.58	4.58	0.	-92.	0.04	-0.04
139	30	2.62	2.62	89.	-24.	0.08	0.19	4.58	4.58	0.	-26.	0.01	-0.01
140	30	2.62	2.62	9.	-9.	0.01	-0.01	4.58	4.58	0.	-19.	0.03	-0.03

269	30	5.25	5.25	328.	317.	0.00	14.39	4.58	4.58	761.	37.	0.16	0.75
270	30	5.25	5.25	822.	216.	0.00	1.50	4.58	4.58	292.	65.	0.00	0.57
271	30	5.25	5.25	1160.	134.	0.00	1.11	4.58	4.58	690.	40.	0.02	0.61
272	30	5.25	5.25	392.	91.	0.00	0.56	4.58	4.58	777.	-17.	0.20	0.33
273	30	2.62	2.62	0.	17.	0.04	0.16	4.58	4.58	0.	-169.	0.08	0.10
274	30	2.62	2.62	724.	-6.	0.20	0.76	4.58	4.58	456.	-24.	0.08	0.18
275	30	2.62	2.62	948.	-1.	0.22	0.82	4.58	4.58	47.	-26.	0.09	0.21
276	30	2.62	2.62	361.	-22.	0.08	0.23	4.58	4.58	165.	-49.	0.08	-0.08
277	30	2.62	2.62	0.	26.	0.00	0.48	4.58	4.58	0.	-168.	0.08	0.09
278	30	2.62	2.62	908.	-4.	0.20	0.85	4.58	4.58	503.	14.	0.07	0.29
279	30	2.62	2.62	1109.	8.	0.21	0.91	4.58	4.58	436.	-16.	0.10	0.28
280	30	2.62	2.62	470.	35.	0.00	0.66	4.58	4.58	38.	-34.	0.08	-0.08
281	30	2.62	2.62	0.	67.	0.00	0.77	4.58	4.58	0.	-196.	0.09	-0.09
282	30	2.62	2.62	704.	58.	0.00	1.43	4.58	4.58	380.	7.	0.06	0.20
283	30	2.62	2.62	1181.	62.	0.01	1.58	4.58	4.58	611.	-13.	0.13	0.38
284	30	2.62	2.62	389.	66.	0.00	0.88	4.58	4.58	390.	-20.	0.06	0.15
285	30	2.62	2.62	0.	50.	0.00	0.58	4.58	4.58	0.	-82.	0.04	0.05
286	30	2.62	2.62	466.	22.	0.11	0.76	4.58	4.58	555.	21.	0.09	0.34
287	30	2.62	2.62	51.	28.	0.00	0.56	4.58	4.58	604.	-7.	0.22	0.62

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	τx	τy	τt	GUSCI	τx	τy	τt	GUSCI	τx	τy	τt
122	0.6	0.8	0.6	123	0.0	1.2	1.1	124	0.2	1.2	1.1
125	0.6	1.0	1.0	126	0.6	0.8	0.8	127	0.2	1.1	1.0
128	0.2	1.0	0.9	129	0.8	0.4	0.7	130	0.7	0.6	0.8
131	0.2	1.1	1.0	132	0.2	1.0	0.9	133	0.8	0.2	0.6
134	0.8	0.4	0.7	135	0.2	1.1	0.9	136	0.2	1.0	0.9
137	0.7	0.5	0.6	138	0.7	0.3	0.6	139	0.0	0.5	0.5
140	1.0	0.3	0.6	269	0.5	0.5	0.5	270	0.3	0.2	0.2
271	0.4	0.2	0.3	272	1.3	0.8	1.1	273	1.4	1.0	1.2
274	0.4	0.1	0.3	275	0.4	0.2	0.3	276	1.4	1.1	1.3
277	1.3	0.9	1.2	278	0.4	0.2	0.3	279	0.3	0.1	0.3
280	1.5	1.4	1.5	281	1.5	1.3	1.4	282	0.3	0.2	0.3
283	0.3	0.1	0.2	284	1.3	1.2	1.3	285	1.3	1.2	1.3
286	0.1	0.1	0.1	287	1.2	1.3	1.1				

MACROGUSCIO muro\_5

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
122	5.25	5.25	357	-11	4.62	171.	0.000	391	-10	5.10	211.	0.000	483	-10	6.31	280.	0.000
123	5.25	5.25	0.	25	0.00	242.	0.000	0.	23	0.00	224.	0.000	0.	4	0.00	38.	0.000
124	5.25	5.25	331	31	1.40	552.	0.000	286	27	1.07	483.	0.000	173	21	0.00	342.	0.000
125	5.25	5.25	911	-10	11.89	601.	0.000	856	-8	11.17	575.	0.000	778	3	9.98	621.	0.000
126	2.62	2.62	591	-31	9.32	334.	0.000	575	-25	9.48	401.	0.000	583	-18	10.08	535.	0.000
127	2.62	2.62	0.	-35	1.13	-17.	0.000	0.	-30	0.98	-15.	0.000	18	-38	1.36	-17.	0.000
128	2.62	2.62	190	-14	2.59	54.	0.000	179	-12	2.58	68.	0.000	87	-29	1.49	-8.	0.000
129	2.62	2.62	649	-20	11.24	596.	0.000	633	-17	11.08	629.	0.000	695	-11	12.43	833.	0.000
130	2.62	2.62	716	-5	12.90	982.	0.000	705	-3	12.69	999.	0.000	721	-19	12.63	718.	0.000
131	2.62	2.62	151	-8	2.35	80.	0.000	143	-6	2.40	109.	0.000	34	-26	1.05	-10.	0.000
132	2.62	2.62	175	-9	2.74	96.	0.000	169	-7	2.80	122.	0.000	52	-27	1.21	-9.	0.000
133	2.62	2.62	591	-9	10.56	703.	0.000	599	-7	10.75	768.	0.000	771	-1	13.88	1140.	0.000
134	2.62	2.62	709	-26	12.01	570.	0.000	708	-22	12.23	642.	0.000	772	-13	13.76	898.	0.000
135	2.62	2.62	167	-10	2.49	73.	0.000	160	-11	2.29	58.	0.000	41	-15	0.76	-4.	0.000
136	2.62	2.62	143	-15	1.79	1.	0.000	139	-10	1.88	39.	0.000	31	-27	1.06	-11.	0.000
137	2.62	2.62	663	-8	11.91	842.	0.000	672	-4	12.10	926.	0.000	727	-12	12.98	856.	0.000
138	2.62	2.62	514	-2	9.27	732.	0.000	497	-5	8.93	640.	0.000	505	-5	9.07	649.	0.000
139	2.62	2.62	54	-9	0.63	0.	0.000	32	-13	0.63	-4.	0.000	0.	-36	1.17	-18.	0.000

140	2.62	2.62	628	-12	11.18	713.	0.000	654	-11	11.68	766.	0.000	400	-16	6.67	297.	0.000
269	5.25	5.25	516	118	0.00	1536.	0.000	635	101	0.00	1471.	0.000	481	46	1.60	819.	0.000
270	5.25	5.25	0.	101	0.00	962.	0.000	0.	122	0.00	1161.	0.000	0.	59	0.00	567.	0.000
271	5.25	5.25	0.	58	0.00	553.	0.000	0.	53	0.00	507.	0.000	0.	27	0.00	254.	0.000
272	5.25	5.25	1626	-10	21.15	1145.	0.000	1501	-10	19.53	1053.	0.000	1168	-4	15.15	854.	0.000
273	2.62	2.62	1062	-3	19.13	1530.	0.000	1040	-45	17.15	729.	0.000	935	-8	16.83	1246.	0.000
274	2.62	2.62	0.	-51	1.67	-25.	0.000	0.	-39	1.26	-19.	0.000	0.	-48	1.54	-23.	0.000
275	2.62	2.62	0.	-49	1.58	-24.	0.000	0.	-34	1.11	-17.	0.000	0.	-45	1.46	-22.	0.000
276	2.62	2.62	1154	-13	20.73	1472.	0.000	1121	-6	20.20	1562.	0.000	934	-12	16.75	1162.	0.000
277	2.62	2.62	1262	-50	21.18	968.	0.000	1260	-38	21.84	1163.	0.000	931	-1	16.76	1367.	0.000
278	2.62	2.62	0.	-27	0.86	-13.	0.000	0.	-17	0.56	-8.	0.000	0.	-35	1.15	-17.	0.000
279	2.62	2.62	0.	-27	0.86	-13.	0.000	0.	-17	0.56	-8.	0.000	0.	-36	1.16	-17.	0.000
280	2.62	2.62	1425	-51	24.23	1176.	0.000	1334	-38	23.26	1287.	0.000	920	-32	15.70	775.	0.000
281	2.62	2.62	1225	-40	21.08	1087.	0.000	1259	-29	22.23	1332.	0.000	897	-25	15.66	874.	0.000
282	2.62	2.62	0.	-8	0.25	-4.	0.000	0.	-7	0.24	-4.	0.000	0.	-23	0.74	-11.	0.000
283	2.62	2.62	0.	-12	0.39	-6.	0.000	0.	-2	0.08	-1.	0.000	0.	-24	0.79	-12.	0.000
284	2.62	2.62	1169	-25	20.73	1280.	0.000	1213	-19	21.69	1454.	0.000	852	-18	15.12	938.	0.000
285	2.62	2.62	1088	-18	19.43	1283.	0.000	988	-17	17.63	1153.	0.000	489	-20	8.13	359.	0.000
286	2.62	2.62	0.	1	0.00	18.	0.000	0.	-3	0.09	-1.	0.000	0.	-30	0.96	-14.	0.000
287	2.62	2.62	1145	-8	20.62	1562.	0.000	1220	-14	21.91	1555.	0.000	948	-14	16.96	1146.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
122	4.58	4.58	1022	-76	12.11	198.	0.000	966	-63	11.89	242.	0.000	799	-113	9.05	1.	0.000
123	4.58	4.58	1002	-41	13.41	450.	0.000	945	-33	12.84	478.	0.000	637	-8	8.85	466.	0.000
124	4.58	4.58	1477	-44	20.25	821.	0.000	1350	-38	18.55	772.	0.000	872	-8	12.11	670.	0.000
125	4.58	4.58	1738	-128	20.62	340.	0.000	1563	-113	18.63	316.	0.000	1066	-90	17.56	34.	0.000
126	4.58	4.58	1448	-140	18.66	18.	0.000	1287	-124	16.59	16.	0.000	805	-123	9.26	1.	0.000
127	4.58	4.58	1213	-82	14.76	283.	0.000	1090	-74	13.28	256.	0.000	666	-68	8.12	6.	0.000
128	4.58	4.58	1353	-98	16.13	274.	0.000	1225	-88	14.66	254.	0.000	873	-57	10.71	216.	0.000
129	4.58	4.58	1419	-170	16.09	6.	0.000	1264	-151	14.35	5.	0.000	899	-126	10.16	1.	0.000
130	4.58	4.58	1423	-146	17.26	12.	0.000	1272	-130	15.53	11.	0.000	1014	-109	11.94	7.	0.000
131	4.58	4.58	1369	-83	17.15	388.	0.000	1245	-74	15.69	367.	0.000	780	-45	9.91	242.	0.000
132	4.58	4.58	1382	-86	17.19	373.	0.000	1269	-79	15.82	347.	0.000	944	-48	12.28	343.	0.000
133	4.58	4.58	1346	-167	15.18	4.	0.000	1220	-150	13.78	4.	0.000	930	-120	10.47	3.	0.000
134	4.58	4.58	1365	-144	16.32	10.	0.000	1231	-131	14.60	9.	0.000	1066	-112	12.75	8.	0.000
135	4.58	4.58	1361	-69	17.73	499.	0.000	1240	-66	15.99	425.	0.000	839	-40	11.04	331.	0.000
136	4.58	4.58	1360	-91	16.60	323.	0.000	1251	-81	15.43	320.	0.000	900	-52	11.40	275.	0.000
137	4.58	4.58	1371	-148	16.16	9.	0.000	1246	-134	14.67	8.	0.000	968	-109	11.17	5.	0.000
138	4.58	4.58	1035	-133	11.65	3.	0.000	912	-127	10.31	2.	0.000	619	-110	7.31	-7.	0.000
139	4.58	4.58	812	-76	10.79	11.	0.000	731	-76	8.79	6.	0.000	280	-56	3.51	-6.	0.000
140	4.58	4.58	453	-74	5.14	-2.	0.000	428	-67	4.96	0.	0.000	191	-49	2.72	-9.	0.000
269	4.58	4.58	57	-110	3.84	-48.	0.000	103	-94	3.64	-38.	0.000	198	-86	3.94	-26.	0.000
270	4.58	4.58	0.	-1	0.03	0.	0.000	0.	0.	0.00	4.	0.000	0.	11	0.00	115.	0.000
271	4.58	4.58	32	-22	0.91	-8.	0.000	0.	-19	0.60	-9.	0.000	3	9	0.00	101.	0.000
272	4.58	4.58	450	-127	6.82	-28.	0.000	417	-112	6.13	-23.	0.000	246	-92	4.44	-26.	0.000
273	4.58	4.58	98	-139	5.02	-59.	0.000	70	-121	4.30	-53.	0.000	0.	-117	3.72	-56.	0.000
274	4.58	4.58	56	-38	1.56	-14.	0.000	44	-32	1.29	-12.	0.000	0.	-24	0.78	-12.	0.000
275	4.58	4.58	111	-57	2.50	-19.	0.000	61	-50	1.97	-19.	0.000	0.	-19	0.61	-9.	0.000
276	4.58	4.58	705	-202	10.76	-45.	0.000	526	-178	8.90	-46.	0.000	300	-110	5.35	-31.	0.000
277	4.58	4.58	745	-128	8.65	-6.	0.000	624	-113	7.44	-8.	0.000	490	-91	5.90	-7.	0.000
278	4.58	4.58	99	-9	1.28	1.	0.000	69	-9	0.77	0.	0.000	0.	-2	0.08	-1.	0.000
279	4.58	4.58	209	-36	2.44	-2.	0.000	145	-33	1.93	-5.	0.000	38	-3	0.60	1.	0.000
280	4.58	4.58	1347	-209	15.56	1.	0.000	1066	-184	12.41	-10.	0.000	569	-100	6.66	-6.	0.000
281	4.58	4.58	1144	-134	13.04	5.	0.000	955	-120	10.76	3.	0.000	769	-96	8.66	2.	0.000
282	4.58	4.58	181	-15	2.91	5.	0.000	109	-2	1.51	78.	0.000	4	0.	0.06	4.	0.000
283	4.58	4.58	242	-35	2.76	0.	0.000	173	-31	2.04	-2.	0.000	50	-6	0.56	0.	0.000
284	4.58	4.58	1294	-171	14.56	3.	0.000	1029	-153	11.76	1.	0.000	714	-83	8.15	3.	0.000
285	4.58	4.58	1263	-115	17.46	21.	0.000	921	-106	10.55	4.	0.000	457	-86	5.54	-8.	0.000
286	4.58	4.58	302	-33	3.52	2.	0.000	172	-26	1.98	0.	0.000	5	-7	0.25	-3.	0.000
287	4.58	4.58	0.	-105	3.36	-50.	0.000	0.	-97	3.11	-47.	0.000	0.	-40	1.27	-19.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
122	5.25	5.25	272	-11	3.46	108.	0.000	291	-10	3.75	135.	0.000	328	-10	4.25	164.	0.000
123	5.25	5.25	203	25	0.00	403.	0.000	214	23	0.00	394.	0.000	264	4	3.29	238.	0.000
124	5.25	5.25	238	31	0.00	480.	0.000	223	27	0.00	434.	0.000	363	21	3.43	485.	0.000
125	5.25	5.25	0.	-10	0.32	-5.	0.000	0.	-8	0.26	-4.	0.000	0.	3	0.00	29.	0.000
126	2.62	2.62	0.	-31	1.00	-15.	0.000	0.	-25	0.82	-12.	0.000	0.	-18	0.58	-9.	0.000
127	2.62	2.62	95	-35	0.53	-24.	0.000	99	-30	0.36	-22.	0.000	161	-38	0.22	-31.	0.000
128	2.62	2.62	144	-14	1.91	2.	0.000	146	-12	1.90	33.	0.000	231	-29	2.66	1.	0.000
129	2.62	2.62	0.	-20	0.65	-10.	0.000	0.	-17	0.55	-8.	0.000	0.	-11	0.35	-5.	0.000
130	2.62	2.62	0.	-5	0.15	-2.	0.000	0.	-3	0.09	-1.	0.000	0.	-19	0.62	-9.	0.000
131	2.62	2.62	158	-8	2.50	90.	0.000	161	-6	2.75	134.	0.000	250	-26	3.12	2.	0.000
132	2.62	2.62	182	-9	2.89	106.	0.000	182	-7	3.05	140.	0.000	269	-27	3.42	3.	0.000
133	2.62	2.62	0.	-9	0.31	-5.	0.000	0.	-7	0.21	-3.	0.000	0.	-1	0.02	0.	0.000
134	2.62	2.62	0.	-26	0.86	-13.	0.000	0.	-22	0.72	-11.	0.000	0.	-13	0.44	-7.	0.000
135	2.62	2.62	184	-10	2.85	96.	0.000	183	-11	2.77	86.	0.000	276	-15	4.26	140.	0.000
136	2.62	2.62	202	-15	2.75	57.	0.000	204	-10	3.24	120.	0.000	295	-27	4.28	5.	0.000
137	2.62	2.62	0.	-8	0.25	-4.	0.000	0.	-4	0.13	-2.	0.000	0.	-12	0.39	-6.	0.000
138	2.62	2.62	0.	-2	0.06	-1.	0.000	0.	-5	0.17	-3.	0.000	0.	-5	0.18	-3.	0.000
139	2.62	2.62	96	-9	1.35	2.	0.000	91	-13	1.06	0.	0.000	169	-36	0.10	-30.	0.000
140																	

270	5.25	5.25	953	101	0.00	1719.	0.000	1128	122	0.00	2057.	0.000	939	59	8.44	1295.	0.000
271	5.25	5.25	1173	58	12.18	1456.	0.000	1146	53	12.19	1388.	0.000	974	27	11.61	997.	0.000
272	5.25	5.25	0.	-10	0.32	-5.	0.000	0.	-10	0.31	-5.	0.000	0.	-4	0.12	-2.	0.000
273	2.62	2.62	0.	-3	0.09	-1.	0.000	0.	-45	1.47	-22.	0.000	0.	-8	0.25	-4.	0.000
274	2.62	2.62	828	-51	12.24	347.	0.000	842	-39	13.70	552.	0.000	729	-48	10.54	276.	0.000
275	2.62	2.62	734	-49	10.52	267.	0.000	831	-34	13.86	617.	0.000	746	-45	11.17	331.	0.000
276	2.62	2.62	0.	-13	0.43	-6.	0.000	0.	-6	0.19	-3.	0.000	0.	-12	0.40	-6.	0.000
277	2.62	2.62	0.	-50	1.62	-24.	0.000	0.	-38	1.25	-19.	0.000	0.	-1	0.04	-1.	0.000
278	2.62	2.62	946	-27	16.50	914.	0.000	959	-17	17.09	1107.	0.000	847	-35	14.07	615.	0.000
279	2.62	2.62	863	-27	14.93	792.	0.000	888	-17	15.80	1002.	0.000	814	-36	13.39	563.	0.000
280	2.62	2.62	0.	-51	1.67	-25.	0.000	0.	-38	1.22	-18.	0.000	0.	-32	1.05	-16.	0.000
281	2.62	2.62	0.	-40	1.29	-19.	0.000	0.	-29	0.94	-14.	0.000	0.	-25	0.81	-12.	0.000
282	2.62	2.62	766	-8	13.77	994.	0.000	785	-7	14.12	1031.	0.000	828	-23	14.47	811.	0.000
283	2.62	2.62	975	-12	17.50	1227.	0.000	995	-2	17.93	1441.	0.000	900	-24	15.73	885.	0.000
284	2.62	2.62	0.	-25	0.80	-12.	0.000	0.	-19	0.61	-9.	0.000	0.	-18	0.57	-9.	0.000
285	2.62	2.62	0.	-18	0.58	-9.	0.000	0.	-17	0.55	-8.	0.000	0.	-20	0.66	-10.	0.000
286	2.62	2.62	466	1	8.38	714.	0.000	471	-3	8.48	648.	0.000	471	-30	6.94	194.	0.000
287	2.62	2.62	0.	-8	0.25	-4.	0.000	0.	-14	0.45	-7.	0.000	0.	-14	0.46	-7.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
122	4.58	4.58	0.	-76	2.41	-36.	0.000	0.	-63	2.01	-30.	0.000	0.	-113	3.61	-54.	0.000
123	4.58	4.58	0.	-41	1.32	-20.	0.000	0.	-33	1.06	-16.	0.000	0.	-8	0.26	-4.	0.000
124	4.58	4.58	0.	-44	1.42	-21.	0.000	0.	-38	1.22	-18.	0.000	0.	-8	0.26	-4.	0.000
125	4.58	4.58	0.	-128	4.08	-61.	0.000	0.	-113	3.61	-54.	0.000	0.	-90	2.85	-43.	0.000
126	4.58	4.58	0.	-140	4.45	-67.	0.000	0.	-124	3.96	-59.	0.000	0.	-123	3.92	-59.	0.000
127	4.58	4.58	0.	-82	2.62	-39.	0.000	0.	-74	2.34	-35.	0.000	0.	-68	2.17	-33.	0.000
128	4.58	4.58	0.	-98	3.12	-47.	0.000	0.	-88	2.80	-42.	0.000	0.	-57	1.83	-27.	0.000
129	4.58	4.58	0.	-170	5.42	-81.	0.000	0.	-151	4.81	-72.	0.000	0.	-126	4.01	-60.	0.000
130	4.58	4.58	0.	-146	4.67	-70.	0.000	0.	-130	4.14	-62.	0.000	0.	-109	3.49	-52.	0.000
131	4.58	4.58	0.	-83	2.65	-40.	0.000	0.	-74	2.35	-35.	0.000	0.	-45	1.42	-21.	0.000
132	4.58	4.58	0.	-86	2.75	-41.	0.000	0.	-79	2.51	-38.	0.000	0.	-48	1.53	-23.	0.000
133	4.58	4.58	0.	-167	5.33	-80.	0.000	0.	-150	4.78	-72.	0.000	0.	-120	3.83	-57.	0.000
134	4.58	4.58	0.	-144	4.58	-69.	0.000	0.	-131	4.17	-63.	0.000	0.	-112	3.57	-54.	0.000
135	4.58	4.58	0.	-69	2.19	-33.	0.000	0.	-66	2.10	-32.	0.000	0.	-40	1.26	-19.	0.000
136	4.58	4.58	0.	-91	2.91	-44.	0.000	0.	-81	2.57	-39.	0.000	0.	-52	1.66	-25.	0.000
137	4.58	4.58	0.	-148	4.71	-71.	0.000	0.	-134	4.28	-64.	0.000	0.	-109	3.47	-52.	0.000
138	4.58	4.58	0.	-133	4.23	-63.	0.000	0.	-127	4.06	-61.	0.000	0.	-110	3.52	-53.	0.000
139	4.58	4.58	0.	-76	2.43	-36.	0.000	0.	-76	2.43	-36.	0.000	0.	-56	1.80	-27.	0.000
140	4.58	4.58	0.	-74	2.36	-35.	0.000	0.	-67	2.15	-32.	0.000	0.	-49	1.55	-23.	0.000
269	4.58	4.58	467	-110	0.63	-87.	0.000	450	-94	0.26	-78.	0.000	507	-86	0.38	-78.	0.000
270	4.58	4.58	132	-1	1.83	105.	0.000	125	0.	1.71	112.	0.000	224	11	2.55	312.	0.000
271	4.58	4.58	337	-22	4.13	83.	0.000	316	-19	3.98	92.	0.000	471	9	6.23	507.	0.000
272	4.58	4.58	185	-127	2.93	-75.	0.000	194	-112	2.38	-68.	0.000	380	-92	0.60	-72.	0.000
273	4.58	4.58	0.	-139	4.42	-66.	0.000	0.	-121	3.87	-58.	0.000	126	-117	2.95	-65.	0.000
274	4.58	4.58	183	-38	0.09	-32.	0.000	200	-32	0.20	-30.	0.000	288	-24	4.64	8.	0.000
275	4.58	4.58	0.	-57	1.82	-27.	0.000	0.	-50	1.59	-24.	0.000	144	-19	1.63	0.	0.000
276	4.58	4.58	0.	-202	6.44	-97.	0.000	0.	-178	5.67	-85.	0.000	0.	-110	3.52	-53.	0.000
277	4.58	4.58	0.	-128	4.08	-61.	0.000	0.	-113	3.61	-54.	0.000	0.	-91	2.90	-43.	0.000
278	4.58	4.58	0.	-9	0.30	-5.	0.000	11	-9	0.21	-5.	0.000	143	-2	1.99	99.	0.000
279	4.58	4.58	0.	-36	1.16	-17.	0.000	0.	-33	1.04	-16.	0.000	149	-3	2.07	96.	0.000
280	4.58	4.58	0.	-209	6.67	-100.	0.000	0.	-184	5.87	-88.	0.000	0.	-100	3.18	-48.	0.000
281	4.58	4.58	0.	-134	4.28	-64.	0.000	0.	-120	3.82	-57.	0.000	0.	-96	3.07	-46.	0.000
282	4.58	4.58	0.	-15	0.49	-7.	0.000	25	-2	0.32	7.	0.000	53	0.	0.73	46.	0.000
283	4.58	4.58	8	-35	1.07	-17.	0.000	80	-31	0.49	-21.	0.000	238	-6	3.28	143.	0.000
284	4.58	4.58	0.	-171	5.46	-82.	0.000	0.	-153	4.89	-73.	0.000	0.	-83	2.65	-40.	0.000
285	4.58	4.58	0.	-115	3.68	-55.	0.000	0.	-106	3.38	-51.	0.000	0.	-86	2.74	-41.	0.000
286	4.58	4.58	0.	-33	1.06	-16.	0.000	31	-26	0.65	-15.	0.000	83	-7	0.95	12.	0.000
287	4.58	4.58	325	-105	1.37	-74.	0.000	292	-97	1.32	-68.	0.000	138	-40	0.42	-29.	0.000

MACROGUSCIO muro\_6

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15

resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
153	30	2.62	2.62	839.	-9.	0.22	0.83	4.52	4.52	963.	-54.	0.16	0.34
154	30	2.62	2.62	0.	2.	0.04	0.15	4.52	4.52	1406.	-51.	0.22	0.51
156	30	2.62	2.62	131.	-7.	0.03	0.15	4.52	4.52	1394.	-31.	0.21	0.54
157	30	2.62	2.62	858.	3.	0.17	0.77	4.52	4.52	1175.	-57.	0.19	0.42
158	30	2.62	2.62	522.	-1.	0.10	0.76	4.52	4.52	1055.	-75.	0.18	0.35
159	30	2.62	2.62	0.	-15.	0.03	0.07	4.52	4.52	1219.	-60.	0.20	0.43
161	30	2.62	2.62	0.	8.	0.00	0.11	4.52	4.52	1143.	-30.	0.18	0.44
162	30	2.62	2.62	1054.	0.	0.20	0.76	4.52	4.52	791.	-32.	0.13	0.30
300	30	2.62	2.62	711.	-4.	0.27	1.50	4.52	4.52	914.	-40.	0.15	0.35
301	30	2.62	2.62	0.	25.	0.00	0.26	4.52	4.52	254.	-12.	0.04	0.10
303	30	2.62	2.62	0.	24.	0.00	0.37	4.52	4.52	251.	-10.	0.04	0.10
304	30	2.62	2.62	2057.	14.	0.37	1.62	4.52	4.52	805.	-43.	0.13	0.29
305	30	2.62	2.62	906.	26.	0.21	1.62	4.52	4.52	289.	-32.	0.06	0.10
306	30	2.62	2.62	0.	24.	0.00	0.32	4.52	4.52	89.	-6.	0.02	0.03
308	30	2.62	2.62	0.	24.	0.00	0.27	4.52	4.52	0.	-12.	0.01	-0.01
309	30	2.62	2.62	1442.	31.	0.17	1.71	4.52	4.52	599.	-7.	0.09	0.25

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
153	30	2.62	2.62	682.	-9.	0.13	0.47	4.52	4.52	304.	-45.	0.10	0.19
154	30	2.62	2.62	592.	2.	0.18	0.71	4.52	4.52	0.	-9.	0.06	0.12
156	30	2.62	2.62	701.	-7.	0.14	0.54	4.52	4.52	0.	-15.	0.04	0.11
157	30	2.62	2.62	0.	3.	0.00	0.27	4.52	4.52	0.	-83.	0.08	0.13
158	30	2.62	2.62	199.	-1.	0.04	0.25	4.52	4.52	0.	-86.	0.04	-0.04
159	30	2.62	2.62	384.	-15.	0.11	0.41	4.52	4.52	0.	-48.	0.04	0.04
161	30	2.62	2.62	737.	8.	0.13	0.60	4.52	4.52	153.	-15.	0.07	0.16
162	30	2.62	2.62	0.	0.	0.10	0.36	4.52	4.52	327.	-24.	0.07	0.18
300	30	2.62	2.62	547.	-4.	0.10	0.58	4.52	4.52	781.	-20.	0.21	0.54
301	30	2.62	2.62	1562.	25.	0.27	1.54	4.52	4.52	495.	-11.	0.10	0.27
303	30	2.62	2.62	1226.	24.	0.23	1.58	4.52	4.52	926.	-10.	0.14	0.38
304	30	2.62	2.62	0.	14.	0.00	0.63	4.52	4.52	277.	-64.	0.21	0.50
305	30	2.62	2.62	322.	26.	0.00	0.47	4.52	4.52	764.	-27.	0.15	0.29
306	30	2.62	2.62	1075.	24.	0.18	1.40	4.52	4.52	539.	-15.	0.13	0.36
308	30	2.62	2.62	960.	24.	0.17	1.08	4.52	4.52	455.	-3.	0.07	0.21
309	30	2.62	2.62	0.	31.	0.00	0.79	4.52	4.52	0.	9.	0.18	0.51

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
153	0.9	0.6	0.6	154	0.1	0.8	0.6	156	0.1	0.8	0.7
157	0.4	0.9	0.9	158	0.5	1.2	1.2	159	0.2	0.7	0.6
161	0.1	0.7	0.5	162	0.9	0.5	0.6	300	1.5	0.5	1.3
301	0.3	0.6	0.5	303	0.3	0.6	0.6	304	1.7	0.3	1.2
305	1.9	0.2	1.3	306	0.3	0.6	0.6	308	0.3	0.5	0.5
309	1.5	0.5	1.3								

MACROGUSCIO muro\_6

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 15 Rara (RARA)  
 16 Rara VentoX (RARA)  
 17 Rara VentoY (RARA)  
 18 Frequente (FREQUENTE)  
 19 Frequente VentoX (FREQUENTE)  
 20 Frequente VentoY (FREQUENTE)  
 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wKF = " " " " frequente (mm) - " " = 0.2 mm  
 wKP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA				COMBINAZIONE FREQUENTE				COMBINAZIONE QUASI PERMANENTE			
			Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wKF	Mom	Nor



153	2.62	2.62	1006	-9	18.10	1322.	0.000	1034	-12	18.56	1313.	0.000	771	-1	13.88	1131.	0.000
154	2.62	2.62	180	-1	3.24	253.	0.000	192	0.	3.46	278.	0.000	43	-8	0.53	-1.	0.000
156	2.62	2.62	277	-4	4.96	337.	0.000	268	-4	4.80	319.	0.000	4	-3	0.13	-1.	0.000
157	2.62	2.62	670	-8	12.02	854.	0.000	668	-8	12.00	853.	0.000	653	-3	11.77	909.	0.000
158	2.62	2.62	531	-7	9.51	655.	0.000	533	-5	9.59	694.	0.000	558	-2	10.06	792.	0.000
159	2.62	2.62	239	-2	4.30	314.	0.000	231	-1	4.17	328.	0.000	0.	-12	0.38	-6.	0.000
161	2.62	2.62	118	-1	2.12	163.	0.000	130	1	2.33	206.	0.000	0.	-1	0.04	-1.	0.000
162	2.62	2.62	879	-10	15.78	1116.	0.000	902	-10	16.21	1153.	0.000	650	-10	11.61	776.	0.000
300	2.62	2.62	1550	-9	27.92	2139.	0.000	1588	-12	28.59	2148.	0.000	1220	-7	21.97	1694.	0.000
301	2.62	2.62	0.	4	0.00	76.	0.000	0.	2	0.00	31.	0.000	0.	-4	0.13	-2.	0.000
303	2.62	2.62	0.	11	0.00	207.	0.000	0.	6	0.00	112.	0.000	0.	-1	0.03	0.	0.000
304	2.62	2.62	1576	7	28.28	2485.	0.000	1507	2	27.10	2298.	0.000	1170	0.	21.06	1743.	0.000
305	2.62	2.62	1363	-6	24.54	1914.	0.000	1303	-9	23.47	1771.	0.000	1088	-8	19.59	1473.	0.000
306	2.62	2.62	0.	2	0.00	44.	0.000	0.	0.	0.01	0.	0.000	0.	-10	0.32	-5.	0.000
308	2.62	2.62	0.	4	0.00	71.	0.000	0.	0.	0.00	4.	0.000	0.	-7	0.22	-3.	0.000
309	2.62	2.62	1345	0.	24.20	2015.	0.000	1392	-5	25.07	1984.	0.000	1070	-8	19.26	1449.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
153	4.52	4.52	610	-37	7.67	174.	0.000	616	-33	7.96	210.	0.000	639	-32	8.39	241.	0.000
154	4.52	4.52	959	-43	12.78	404.	0.000	967	-38	13.07	458.	0.000	691	-32	9.15	280.	0.000
156	4.52	4.52	958	-43	12.76	403.	0.000	972	-41	13.04	432.	0.000	615	-32	8.02	222.	0.000
157	4.52	4.52	866	-75	13.36	22.	0.000	910	-70	10.68	162.	0.000	609	-60	7.71	7.	0.000
158	4.52	4.52	823	-81	10.33	9.	0.000	861	-74	13.29	22.	0.000	511	-69	5.76	1.	0.000
159	4.52	4.52	808	-56	9.81	183.	0.000	823	-50	10.37	238.	0.000	474	-37	5.53	81.	0.000
161	4.52	4.52	673	-29	9.03	298.	0.000	686	-24	9.37	355.	0.000	548	-17	7.53	299.	0.000
162	4.52	4.52	450	-24	5.83	156.	0.000	457	-20	6.13	201.	0.000	533	-18	7.29	277.	0.000
300	4.52	4.52	0.	-69	2.19	-33.	0.000	15	-63	2.09	-29.	0.000	269	-30	3.10	1.	0.000
301	4.52	4.52	0.	-26	0.81	-12.	0.000	0.	-21	0.68	-10.	0.000	0.	-12	0.38	-6.	0.000
303	4.52	4.52	58	-25	1.16	-8.	0.000	33	-22	0.91	-8.	0.000	0.	-15	0.47	-7.	0.000
304	4.52	4.52	235	-73	3.77	-18.	0.000	209	-65	3.37	-16.	0.000	49	-51	1.92	-21.	0.000
305	4.52	4.52	0.	-99	3.15	-47.	0.000	0.	-89	2.84	-43.	0.000	0.	-56	1.79	-27.	0.000
306	4.52	4.52	0.	-36	1.15	-17.	0.000	0.	-32	1.04	-16.	0.000	0.	-17	0.53	-8.	0.000
308	4.52	4.52	0.	-21	0.66	-10.	0.000	0.	-17	0.55	-8.	0.000	0.	-11	0.34	-5.	0.000
309	4.52	4.52	59	-52	2.03	-21.	0.000	106	-47	2.16	-15.	0.000	140	-33	1.91	-5.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
153	2.62	2.62	0.	-9	0.31	-5.	0.000	0.	-12	0.39	-6.	0.000	230	-1	4.14	323.	0.000
154	2.62	2.62	76	-1	1.37	99.	0.000	81	0.	1.45	112.	0.000	538	-8	9.62	651.	0.000
156	2.62	2.62	17	-4	0.02	-3.	0.000	7	-4	0.09	-3.	0.000	360	-3	6.47	476.	0.000
157	2.62	2.62	0.	-8	0.25	-4.	0.000	0.	-8	0.25	-4.	0.000	120	-3	2.09	115.	0.000
158	2.62	2.62	0.	-7	0.23	-4.	0.000	0.	-5	0.17	-3.	0.000	20	-2	0.24	0.	0.000
159	2.62	2.62	18	-2	0.21	0.	0.000	9	-1	0.12	0.	0.000	327	-12	5.56	270.	0.000
161	2.62	2.62	69	-1	1.24	90.	0.000	72	1	1.28	119.	0.000	456	-1	8.21	659.	0.000
162	2.62	2.62	0.	-10	0.33	-5.	0.000	0.	-10	0.33	-5.	0.000	116	-10	1.77	3.	0.000
300	2.62	2.62	0.	-9	0.30	-4.	0.000	0.	-12	0.38	-6.	0.000	0.	-7	0.21	-3.	0.000
301	2.62	2.62	1067	4	19.16	1670.	0.000	1079	2	19.41	1642.	0.000	1101	-4	19.83	1565.	0.000
303	2.62	2.62	1078	11	19.21	1820.	0.000	1049	6	18.80	1680.	0.000	1041	-1	18.75	1539.	0.000
304	2.62	2.62	0.	7	0.00	131.	0.000	0.	2	0.00	47.	0.000	18	0.	0.32	24.	0.000
305	2.62	2.62	0.	-6	0.20	-3.	0.000	0.	-9	0.30	-4.	0.000	0.	-8	0.26	-4.	0.000
306	2.62	2.62	956	2	17.19	1472.	0.000	928	0.	16.71	1378.	0.000	932	-10	16.75	1203.	0.000
308	2.62	2.62	920	4	16.51	1445.	0.000	933	0.	16.79	1397.	0.000	945	-7	17.01	1283.	0.000
309	2.62	2.62	0.	0.	0.00	7.	0.000	0.	-5	0.16	-2.	0.000	0.	-8	0.25	-4.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
153	4.52	4.52	194	-37	0.01	-32.	0.000	204	-33	0.19	-31.	0.000	302	-32	3.62	2.	0.000
154	4.52	4.52	0.	-43	1.37	-21.	0.000	0.	-38	1.21	-18.	0.000	0.	-32	1.02	-15.	0.000
156	4.52	4.52	0.	-43	1.37	-21.	0.000	0.	-41	1.31	-20.	0.000	0.	-32	1.01	-15.	0.000
157	4.52	4.52	0.	-75	2.38	-36.	0.000	0.	-70	2.23	-33.	0.000	0.	-60	1.90	-29.	0.000
158	4.52	4.52	0.	-81	2.60	-39.	0.000	0.	-74	2.37	-35.	0.000	0.	-69	2.21	-33.	0.000
159	4.52	4.52	0.	-56	1.78	-27.	0.000	0.	-50	1.58	-24.	0.000	0.	-37	1.19	-18.	0.000
161	4.52	4.52	0.	-29	0.91	-14.	0.000	0.	-24	0.76	-11.	0.000	0.	-17	0.56	-8.	0.000
162	4.52	4.52	219	-24	2.56	1.	0.000	228	-20	3.57	6.	0.000	221	-18	2.53	33.	0.000
300	4.52	4.52	311	-69	0.28	-56.	0.000	275	-63	0.31	-50.	0.000	409	-30	4.85	78.	0.000
301	4.52	4.52	299	-26	4.70	8.	0.000	303	-21	3.65	65.	0.000	487	-12	6.77	303.	0.000
303	4.52	4.52	590	-25	7.90	259.	0.000	565	-22	7.64	266.	0.000	517	-15	7.14	300.	0.000
304	4.52	4.52	428	-73	0.30	-66.	0.000	429	-65	4.93	0.	0.000	557	-51	7.75	10.	0.000
305	4.52	4.52	400	-99	0.69	-77.	0.000	404	-89	0.37	-72.	0.000	381	-56	4.34	0.	0.000
306	4.52	4.52	433	-36	7.25	14.	0.000	411	-32	4.78	69.	0.000	495	-17	6.78	261.	0.000
308	4.52	4.52	297	-21	3.60	66.	0.000	300	-17	3.82	93.	0.000	382	-11	5.28	224.	0.000
309	4.52	4.52	401	-52	4.52	1.	0.000	357	-47	4.02	1.	0.000	310	-33	3.69	2.	0.000

MACROGUSCIO muro\_7

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

		INFERIORE ORIZZONTALE							INFERIORE VERTICALE						
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF		
79	30	3.50	3.50	761.	-9.	0.15	0.62	4.55	4.55	698.	-65.	0.13	0.24		
81	30	3.50	3.50	303.	-20.	0.07	0.19	4.55	4.55	1318.	-48.	0.21	0.48		
87	30	3.50	3.50	0.	0.	0.00	0.02	4.55	4.55	1759.	-49.	0.27	0.65		
91	30	3.50	3.50	228.	34.	0.04	0.73	4.55	4.55	2361.	-107.	0.38	0.76		
95	30	3.50	3.50	1647.	32.	0.21	1.25	4.55	4.55	2954.	-80.	0.45	1.02		
97	30	3.50	3.50	806.	36.	0.00	0.77	4.55	4.55	2740.	-32.	0.41	1.07		
99	30	3.50	3.50	0.	25.	0.00	0.18	4.55	4.55	2262.	-32.	0.34	0.88		
101	30	3.50	3.50	0.	52.	0.00	0.39	4.55	4.55	2126.	-32.	0.32	0.83		
103	30	3.50	3.50	553.	59.	0.00	0.75	4.55	4.55	1964.	-12.	0.29	0.81		
105	30	3.50	3.50	1678.	38.	0.32	1.23	4.55	4.55	1382.	-21.	0.21	0.57		
226	30	3.50	3.50	1907.	57.	0.18	1.57	4.55	4.55	1162.	-18.	0.17	0.47		
228	30	3.50	3.50	230.	44.	0.00	0.46	4.55	4.55	874.	-11.	0.13	0.36		
234	30	3.50	3.50	0.	50.	0.00	0.40	4.55	4.55	492.	-14.	0.08	0.20		
238	30	3.50	3.50	664.	51.	0.06	1.32	4.55	4.55	554.	-135.	0.14	0.12		
242	30	3.50	3.50	2924.	73.	2.50	29.44	4.55	4.55	1333.	-62.	0.22	0.47		
244	30	3.50	3.50	638.	74.	0.00	0.85	4.55	4.55	886.	19.	0.06	0.48		
246	30	3.50	3.50	0.	96.	0.00	0.73	4.55	4.55	0.	-4.	0.00	0.00		
248	30	3.50	3.50	0.	94.	0.00	0.70	4.55	4.55	406.	0.	0.06	0.17		
250	30	3.50	3.50	18.	81.	0.00	0.89	4.55	4.55	1196.	13.	0.16	0.58		
252	30	6.99	3.50	2185.	44.	0.36	1.12	4.55	4.55	1595.	-30.	0.24	0.64		

		SUPERIORE ORIZZONTALE							SUPERIORE VERTICALE						
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF		
79	30	3.50	3.50	0.	-9.	0.03	0.09	4.55	4.55	12.	-37.	0.05	0.04		
81	30	3.50	3.50	897.	-20.	0.16	0.45	4.55	4.55	162.	-30.	0.08	0.16		
87	30	3.50	3.50	324.	0.	0.05	0.18	4.55	4.55	0.	-34.	0.02	-0.02		
91	30	3.50	3.50	0.	34.	0.00	0.41	4.55	4.55	0.	-81.	0.05	-0.05		
95	30	3.50	3.50	0.	32.	0.00	0.50	4.55	4.55	0.	-101.	0.05	-0.05		
97	30	3.50	3.50	1173.	36.	0.06	0.92	4.55	4.55	0.	-21.	0.08	0.21		
99	30	3.50	3.50	410.	25.	0.02	0.60	4.55	4.55	0.	-11.	0.02	-0.02		
101	30	3.50	3.50	380.	52.	0.00	0.90	4.55	4.55	0.	-31.	0.03	0.07		
103	30	3.50	3.50	1012.	59.	0.10	1.30	4.55	4.55	210.	-4.	0.15	0.45		
105	30	3.50	3.50	725.	38.	0.00	0.66	4.55	4.55	767.	-21.	0.14	0.36		
226	30	3.50	3.50	0.	57.	0.00	0.74	4.55	4.55	274.	-8.	0.12	0.25		
228	30	3.50	3.50	881.	44.	0.14	1.08	4.55	4.55	683.	-10.	0.11	0.30		
234	30	3.50	3.50	770.	50.	0.00	0.83	4.55	4.55	561.	-12.	0.09	0.23		
238	30	3.50	3.50	0.	51.	0.00	0.48	4.55	4.55	31.	-42.	0.07	-0.06		
242	30	3.50	3.50	0.	73.	0.00	0.86	4.55	4.55	44.	-155.	0.20	0.33		
244	30	3.50	3.50	1206.	74.	0.12	1.62	4.55	4.55	1021.	19.	0.14	0.54		
246	30	3.50	3.50	1381.	96.	0.18	1.77	4.55	4.55	651.	1.	0.09	0.28		
248	30	3.50	3.50	1891.	94.	1.38	16.62	4.55	4.55	664.	-9.	0.16	0.46		
250	30	3.50	3.50	2267.	81.	0.30	1.85	4.55	4.55	1248.	-4.	0.18	0.65		
252	30	3.50	6.99	477.	44.	0.00	0.56	4.55	4.55	942.	-11.	0.22	0.69		

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
79	0.9	0.4	0.6	81	0.1	0.9	0.7	87	0.2	0.9	0.9
91	0.6	0.8	0.8	95	0.6	1.0	0.9	97	0.3	1.2	1.1
99	0.1	1.4	1.4	101	0.0	1.4	1.3	103	0.3	1.0	0.8
105	1.0	0.5	0.6	226	1.6	0.3	1.3	228	0.4	0.2	0.3
234	0.4	0.2	0.3	238	1.5	1.2	1.4	242	1.5	1.1	1.3
244	0.4	0.1	0.3	246	0.2	0.2	0.2	248	0.1	0.1	0.1
250	0.5	0.1	0.4	252	1.8	0.2	1.4				

MACROGUSCIO muro\_7

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:



105	3.50	3.50	0.	46	0.00	664.	0.000	0.	37	0.00	524.	0.000	217	17	1.98	494.	0.000
226	3.50	3.50	0.	-9	0.28	-4.	0.000	0.	-8	0.24	-4.	0.000	0.	-11	0.34	-5.	0.000
228	3.50	3.50	1092	-3	17.17	1187.	0.000	1081	-5	17.01	1143.	0.000	981	-17	15.39	875.	0.000
234	3.50	3.50	872	-1	13.70	967.	0.000	853	-4	13.42	903.	0.000	670	-14	10.45	555.	0.000
238	3.50	3.50	0.	-14	0.44	-7.	0.000	0.	-11	0.35	-5.	0.000	0.	-12	0.37	-6.	0.000
242	3.50	3.50	0.	32	0.00	463.	0.000	0.	30	0.00	422.	0.000	0.	28	0.00	395.	0.000
244	3.50	3.50	1252	69	15.46	2431.	0.000	1261	59	16.64	2298.	0.000	1176	40	16.78	1918.	0.000
246	3.50	3.50	1420	84	16.87	2843.	0.000	1423	71	18.41	2648.	0.000	1170	38	16.82	1880.	0.000
248	3.50	3.50	1693	84	21.90	3152.	0.073	1695	71	23.20	2951.	0.028	1424	39	20.98	2168.	0.000
250	3.50	3.50	1550	73	20.44	2826.	0.000	1548	61	21.52	2636.	0.000	1407	37	20.79	2127.	0.000
252	3.50	6.99	0.	73	0.00	1045.	0.000	0.	60	0.00	853.	0.000	0.	10	0.00	148.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
79	4.55	4.55	0.	-54	1.73	-26.	0.000	0.	-48	1.53	-23.	0.000	82	-44	0.91	-27.	0.000
81	4.55	4.55	0.	-52	1.66	-25.	0.000	0.	-45	1.44	-22.	0.000	65	-40	0.88	-24.	0.000
87	4.55	4.55	0.	-81	2.57	-39.	0.000	0.	-74	2.37	-36.	0.000	0.	-59	1.88	-28.	0.000
91	4.55	4.55	0.	-163	5.21	-78.	0.000	0.	-146	4.66	-70.	0.000	0.	-121	3.85	-58.	0.000
95	4.55	4.55	0.	-118	3.77	-57.	0.000	0.	-108	3.44	-52.	0.000	0.	-87	2.78	-42.	0.000
97	4.55	4.55	0.	-45	1.42	-21.	0.000	0.	-42	1.34	-20.	0.000	0.	-24	0.77	-11.	0.000
99	4.55	4.55	0.	-33	1.05	-16.	0.000	0.	-31	0.99	-15.	0.000	0.	-26	0.83	-12.	0.000
101	4.55	4.55	0.	-31	1.00	-15.	0.000	0.	-28	0.91	-14.	0.000	0.	-27	0.87	-13.	0.000
103	4.55	4.55	0.	-15	0.46	-7.	0.000	0.	-13	0.43	-6.	0.000	348	-8	4.83	216.	0.000
105	4.55	4.55	300	-22	3.57	59.	0.000	297	-20	3.60	67.	0.000	557	-17	7.64	305.	0.000
226	4.55	4.55	0.	-69	2.20	-33.	0.000	0.	-62	1.97	-30.	0.000	55	-46	1.12	-26.	0.000
228	4.55	4.55	417	-27	5.13	104.	0.000	412	-23	5.29	136.	0.000	473	-16	6.45	243.	0.000
234	4.55	4.55	175	-54	0.67	-39.	0.000	194	-49	0.36	-38.	0.000	244	-18	2.89	47.	0.000
238	4.55	4.55	0.	-205	6.54	-98.	0.000	0.	-182	5.79	-87.	0.000	0.	-113	3.61	-54.	0.000
242	4.55	4.55	0.	-117	3.73	-56.	0.000	0.	-105	3.34	-50.	0.000	229	-88	1.40	-59.	0.000
244	4.55	4.55	394	8	5.20	430.	0.000	451	5	6.10	455.	0.000	630	6	8.56	621.	0.000
246	4.55	4.55	248	-7	3.41	141.	0.000	257	-7	3.54	146.	0.000	305	-5	4.25	213.	0.000
248	4.55	4.55	529	-13	7.33	327.	0.000	531	-11	7.38	348.	0.000	592	-5	8.24	461.	0.000
250	4.55	4.55	706	-23	9.65	375.	0.000	703	-22	9.66	389.	0.000	866	6	11.85	822.	0.000
252	4.55	4.55	205	-62	0.71	-45.	0.000	188	-58	0.70	-42.	0.000	431	-35	4.99	69.	0.000

MACROGUSCIO muro\_8

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	:	[cm]	-	forze	:	[daN]
momenti	:	[daNcm/cm]	-	tensioni	:	[daN/cm2]
pesi specifici	:	[daN/cm3]	-	angoli	:	[gradi]
armature	:	[cm2]				

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	207.5	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	3	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
31	30	2.62	2.62	1176.	28.	0.10	1.11	4.62	4.62	897.	14.	0.07	0.45
33	30	2.62	2.62	186.	52.	0.00	0.63	4.62	4.62	1252.	17.	0.12	0.61
35	30	2.62	2.62	0.	59.	0.00	0.56	4.62	4.62	723.	44.	0.00	0.53
37	30	2.62	2.62	444.	55.	0.00	1.09	4.62	4.62	1108.	-10.	0.16	0.45
39	30	13.33	13.33	489.	136.	0.00	0.39	4.62	4.62	1234.	-50.	0.20	0.44
41	30	10.71	10.71	0.	160.	0.00	0.41	4.62	4.62	934.	95.	0.00	0.88
43	30	10.71	10.71	114.	150.	0.00	0.41	4.62	4.62	1365.	111.	0.00	1.14
45	30	10.71	10.71	955.	3.	0.11	0.35	4.62	4.62	1208.	-143.	0.23	0.59
178	30	2.62	2.62	2469.	0.	0.46	1.79	4.62	4.62	1136.	12.	0.12	0.54
180	30	2.62	2.62	0.	32.	0.00	0.35	4.62	4.62	306.	23.	0.00	0.25
182	30	2.62	2.62	0.	73.	0.00	0.78	4.62	4.62	0.	37.	0.00	0.19
184	30	2.62	2.62	430.	100.	1.44	35.83	4.62	4.62	705.	-16.	0.11	0.28
186	30	13.33	13.33	1305.	188.	0.00	0.53	4.62	4.62	536.	32.	0.00	0.39
188	30	10.71	10.71	0.	242.	0.00	0.60	4.62	4.62	112.	49.	0.00	0.34
190	30	10.71	10.71	0.	342.	0.00	0.96	4.62	4.62	58.	132.	0.00	0.71
192	30	10.71	10.71	747.	385.	0.00	1.63	4.62	4.62	1179.	-13.	0.17	0.60

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
31	30	2.62	2.62	0.	28.	0.00	0.52	4.62	4.62	277.	16.	0.03	0.28
33	30	2.62	2.62	681.	52.	0.00	0.98	4.62	4.62	311.	27.	0.00	0.42
35	30	2.62	2.62	286.	59.	0.00	0.95	4.62	4.62	0.	45.	0.00	0.38
37	30	2.62	2.62	308.	55.	0.00	0.79	4.62	4.62	192.	23.	0.08	0.23
39	30	13.33	13.33	0.	136.	0.00	0.31	4.62	4.62	0.	-8.	0.02	0.29
41	30	10.71	10.71	392.	160.	0.00	0.51	4.62	4.62	0.	77.	0.00	0.49
43	30	10.71	10.71	516.	150.	0.00	0.54	4.62	4.62	0.	111.	0.00	0.57
45	30	10.71	10.71	442.	3.	0.04	0.12	4.62	4.62	272.	42.	0.12	0.33
178	30	2.62	2.62	0.	0.	0.11	0.39	4.62	4.62	0.	14.	0.11	0.52
180	30	2.62	2.62	1325.	32.	0.23	1.38	4.62	4.62	683.	23.	0.00	0.45
182	30	2.62	2.62	902.	73.	0.00	1.55	4.62	4.62	352.	32.	0.00	0.41
184	30	2.62	2.62	536.	100.	0.00	1.31	4.62	4.62	650.	-12.	0.12	0.31
186	30	13.33	13.33	0.	188.	0.00	0.37	4.62	4.62	7.	14.	0.04	0.50
188	30	10.71	10.71	950.	242.	0.00	0.81	4.62	4.62	597.	49.	0.00	0.56
190	30	10.71	10.71	998.	342.	0.00	1.16	4.62	4.62	245.	95.	0.00	0.81
192	30	10.71	10.71	249.	385.	0.00	1.37	4.62	4.62	266.	-34.	0.05	0.38

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
31	1.0	0.5	0.6	33	0.1	0.8	0.6	35	0.1	0.7	0.6
37	0.6	0.8	0.9	39	0.6	0.7	0.8	41	0.1	1.2	1.1
43	0.1	1.1	0.9	45	1.0	0.7	0.8	178	1.7	0.2	1.4
180	0.3	0.5	0.5	182	0.3	0.6	0.5	184	1.6	0.9	1.3
186	1.4	1.0	1.2	188	0.3	0.2	0.2	190	0.4	0.2	0.3
192	1.5	0.2	1.3								

MACROGUSCIO muro\_8

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkr = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
31	2.62	2.62	1114	7	19.95	1801.	0.000	1100	5	19.72	1745.	0.000	809	5	14.49	1314.	0.000
33	2.62	2.62	200	14	2.47	574.	0.000	194	16	1.81	613.	0.000	77	8	0.11	273.	0.000
35	2.62	2.62	89	0.	1.60	134.	0.000	100	4	1.63	222.	0.000	0.	-2	0.06	-1.	0.000
37	2.62	2.62	625	-5	11.25	845.	0.000	641	-2	11.55	923.	0.000	624	3	11.20	985.	0.000
39	13.33	13.33	562	8	4.32	203.	0.000	582	7	4.55	203.	0.000	581	11	4.39	218.	0.000
41	10.71	10.71	0.	32	0.00	150.	0.000	0.	21	0.00	99.	0.000	0.	14	0.00	66.	0.000
43	10.71	10.71	128	17	0.00	127.	0.000	113	12	0.00	99.	0.000	169	-1	1.56	59.	0.000
45	10.71	10.71	1379	19	11.97	612.	0.000	1351	19	11.71	602.	0.000	956	-1	8.72	359.	0.000
178	2.62	2.62	1782	-9	32.10	2485.	0.000	1733	-12	31.19	2355.	0.000	1300	-16	23.33	1640.	0.000
180	2.62	2.62	0.	7	0.00	136.	0.000	0.	3	0.00	55.	0.000	0.	-3	0.10	-2.	0.000
182	2.62	2.62	0.	11	0.00	214.	0.000	0.	10	0.00	200.	0.000	0.	5	0.00	104.	0.000
184	2.62	2.62	1322	8	23.68	2134.	0.000	1333	9	23.87	2159.	0.000	1005	6	17.99	1625.	0.000
186	13.33	13.33	1090	40	7.33	485.	0.000	1101	30	7.93	449.	0.000	977	26	7.06	396.	0.000
188	10.71	10.71	0.	64	0.00	299.	0.000	0.	56	0.00	260.	0.000	0.	41	0.00	190.	0.000
190	10.71	10.71	0.	83	0.00	387.	0.000	0.	72	0.00	336.	0.000	0.	60	0.00	281.	0.000
192	10.71	10.71	1924	95	13.23	1177.	0.050	1896	83	13.73	1108.	0.038	1422	49	11.03	770.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
31	4.62	4.62	561	-2	7.72	466.	0.000	549	3	7.47	507.	0.000	581	2	7.94	517.	0.000
33	4.62	4.62	806	-8	11.15	611.	0.000	803	-1	11.04	681.	0.000	629	1	8.61	556.	0.000
35	4.62	4.62	868	-33	11.65	408.	0.000	885	-20	12.19	551.	0.000	496	-12	6.82	298.	0.000

37	4.62	4.62	840	-60	10.01	171.	0.000	882	-44	11.46	323.	0.000	562	-40	6.73	119.	0.000
39	4.62	4.62	850	-53	10.58	233.	0.000	895	-43	11.71	345.	0.000	586	-36	7.28	158.	0.000
41	4.62	4.62	845	-10	11.70	618.	0.000	839	-11	11.61	602.	0.000	444	-10	6.13	283.	0.000
43	4.62	4.62	1044	-55	13.47	363.	0.000	1034	-50	13.49	391.	0.000	789	-26	10.72	413.	0.000
45	4.62	4.62	859	-186	11.17	-26.	0.000	833	-167	10.43	-19.	0.000	745	-123	8.48	-4.	0.000
178	4.62	4.62	378	-12	5.14	199.	0.000	420	-10	5.79	261.	0.000	349	-5	4.82	245.	0.000
180	4.62	4.62	3	1	0.00	13.	0.000	0.	2	0.00	21.	0.000	0.	2	0.00	17.	0.000
182	4.62	4.62	0.	-18	0.58	-9.	0.000	0.	-11	0.35	-5.	0.000	0.	-1	0.04	-1.	0.000
184	4.62	4.62	478	-41	7.56	13.	0.000	440	-38	6.84	11.	0.000	182	-30	2.07	-1.	0.000
186	4.62	4.62	302	-34	3.48	2.	0.000	271	-28	3.30	2.	0.000	0.	-25	0.79	-12.	0.000
188	4.62	4.62	0.	0.	0.01	0.	0.000	0.	2	0.00	17.	0.000	0.	-1	0.04	-1.	0.000
190	4.62	4.62	80	-38	1.72	-12.	0.000	66	-29	1.34	-9.	0.000	53	2	0.65	64.	0.000
192	4.62	4.62	665	-221	11.13	-57.	0.000	640	-198	10.23	-48.	0.000	614	-93	7.05	0.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
31	2.62	2.62	0.	7	0.00	137.	0.000	0.	5	0.00	102.	0.000	158	5	2.61	342.	0.000
33	2.62	2.62	111	14	0.00	440.	0.000	106	16	0.00	477.	0.000	579	8	10.26	1019.	0.000
35	2.62	2.62	25	0.	0.44	38.	0.000	23	4	0.00	107.	0.000	337	-2	6.07	467.	0.000
37	2.62	2.62	0.	-5	0.15	-2.	0.000	0.	-2	0.06	-1.	0.000	119	3	2.06	231.	0.000
39	13.33	13.33	0.	8	0.00	31.	0.000	0.	7	0.00	24.	0.000	61	11	0.00	59.	0.000
41	10.71	10.71	345	32	0.83	283.	0.000	348	21	2.10	232.	0.000	287	14	1.98	175.	0.000
43	10.71	10.71	759	17	6.36	365.	0.000	746	12	6.42	338.	0.000	697	-1	6.37	260.	0.000
45	10.71	10.71	0.	19	0.00	89.	0.000	0.	19	0.00	89.	0.000	208	-1	1.92	74.	0.000
178	2.62	2.62	0.	-9	0.30	-4.	0.000	0.	-12	0.39	-6.	0.000	0.	-16	0.51	-8.	0.000
180	2.62	2.62	1082	7	19.38	1754.	0.000	1073	3	19.29	1658.	0.000	1089	-3	19.62	1565.	0.000
182	2.62	2.62	892	11	15.84	1550.	0.000	895	10	15.91	1541.	0.000	975	5	17.48	1561.	0.000
184	2.62	2.62	0.	8	0.00	159.	0.000	0.	9	0.00	166.	0.000	0.	6	0.00	123.	0.000
186	13.33	13.33	0.	40	0.00	152.	0.000	0.	30	0.00	112.	0.000	0.	26	0.00	97.	0.000
188	10.71	10.71	948	64	5.16	662.	0.000	940	56	5.81	618.	0.000	945	41	6.88	549.	0.000
190	10.71	10.71	1265	83	7.15	870.	0.000	1257	72	7.95	815.	0.000	1179	60	7.99	730.	0.000
192	10.71	10.71	0.	95	0.00	445.	0.000	0.	83	0.00	388.	0.000	0.	49	0.00	231.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
31	4.62	4.62	296	-2	4.08	238.	0.000	289	3	3.88	283.	0.000	291	2	3.97	268.	0.000
33	4.62	4.62	0.	-8	0.25	-4.	0.000	0.	-1	0.03	0.	0.000	12	1	0.00	26.	0.000
35	4.62	4.62	0.	-33	1.07	-16.	0.000	0.	-20	0.65	-10.	0.000	0.	-12	0.39	-6.	0.000
37	4.62	4.62	0.	-60	1.93	-29.	0.000	0.	-44	1.41	-21.	0.000	0.	-40	1.27	-17.	0.000
39	4.62	4.62	0.	-53	1.67	-25.	0.000	0.	-43	1.36	-20.	0.000	0.	-36	1.16	-17.	0.000
41	4.62	4.62	0.	-10	0.33	-5.	0.000	0.	-11	0.36	-5.	0.000	0.	-10	0.30	-5.	0.000
43	4.62	4.62	0.	-55	1.74	-26.	0.000	0.	-50	1.61	-24.	0.000	92	-26	0.27	-19.	0.000
45	4.62	4.62	93	-186	5.35	-96.	0.000	111	-167	4.64	-88.	0.000	375	-123	1.62	-86.	0.000
178	4.62	4.62	87	-12	0.98	0.	0.000	26	-10	0.14	-7.	0.000	180	-5	2.45	101.	0.000
180	4.62	4.62	380	1	5.20	337.	0.000	378	2	5.15	347.	0.000	447	2	6.10	402.	0.000
182	4.62	4.62	135	-18	1.52	0.	0.000	190	-11	2.40	57.	0.000	329	-1	4.54	272.	0.000
184	4.62	4.62	0.	-41	1.30	-19.	0.000	0.	-38	1.21	-18.	0.000	261	-30	2.99	1.	0.000
186	4.62	4.62	0.	-34	1.09	-16.	0.000	0.	-28	0.88	-13.	0.000	107	-25	0.13	-20.	0.000
188	4.62	4.62	305	0.	4.20	261.	0.000	296	2	4.03	272.	0.000	259	-1	3.58	208.	0.000
190	4.62	4.62	345	-38	4.00	2.	0.000	341	-29	5.26	9.	0.000	460	2	6.28	414.	0.000
192	4.62	4.62	0.	-221	7.06	-106.	0.000	0.	-198	6.31	-95.	0.000	0.	-93	2.97	-45.	0.000

MACROGUSCIO muro\_9

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

		INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
32	30	2.62	2.62	0.	6.	0.08	0.29	4.62	4.62	367.	-27.	0.06	0.13
34	30	2.62	2.62	955.	-7.	0.19	0.69	4.62	4.62	621.	-11.	0.09	0.25
36	30	2.62	2.62	352.	14.	0.11	0.53	4.62	4.62	165.	-11.	0.03	0.06
38	30	2.62	2.62	282.	11.	0.00	0.31	4.62	4.62	0.	-70.	0.03	-0.03
40	30	2.62	2.62	0.	25.	0.00	0.46	4.62	4.62	0.	-62.	0.03	-0.03
42	30	2.62	2.62	367.	16.	0.01	0.55	4.62	4.62	139.	-20.	0.03	0.05
44	30	2.62	2.62	552.	7.	0.17	0.64	4.62	4.62	327.	-10.	0.05	0.13
46	30	2.62	2.62	387.	-1.	0.07	0.28	4.62	4.62	0.	-149.	0.07	-0.07
179	30	2.62	2.62	0.	27.	0.00	0.46	4.62	4.62	944.	-7.	0.14	0.39
181	30	2.62	2.62	1167.	-2.	0.31	1.12	4.62	4.62	560.	-9.	0.08	0.23
183	30	2.62	2.62	1236.	-3.	0.29	1.11	4.62	4.62	784.	2.	0.10	0.34
185	30	2.62	2.62	570.	20.	0.00	0.59	4.62	4.62	1103.	-28.	0.17	0.42
187	30	2.62	2.62	0.	40.	0.00	0.74	4.62	4.62	960.	-34.	0.15	0.36
189	30	2.62	2.62	1092.	44.	0.18	1.45	4.62	4.62	765.	3.	0.10	0.33
191	30	2.62	2.62	1036.	62.	0.13	1.81	4.62	4.62	445.	-24.	0.07	0.25
193	30	2.62	5.25	277.	70.	0.00	1.04	4.62	4.62	73.	-105.	0.06	-0.04

		SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
32	30	2.62	2.62	842.	6.	0.19	0.97	4.62	4.62	340.	-17.	0.13	0.33
34	30	2.62	2.62	105.	-7.	0.02	0.11	4.62	4.62	974.	-13.	0.20	0.55
36	30	2.62	2.62	0.	14.	0.00	0.13	4.62	4.62	714.	-10.	0.21	0.53
38	30	2.62	2.62	630.	11.	0.10	0.87	4.62	4.62	1053.	-56.	0.27	0.61
40	30	2.62	2.62	828.	25.	0.05	0.96	4.62	4.62	1283.	-62.	0.27	0.65
42	30	2.62	2.62	47.	16.	0.00	0.22	4.62	4.62	962.	-19.	0.19	0.54
44	30	2.62	2.62	70.	7.	0.01	0.22	4.62	4.62	1070.	-20.	0.22	0.60
46	30	2.62	2.62	924.	-1.	0.27	1.05	4.62	4.62	1056.	-68.	0.24	0.43
179	30	2.62	2.62	2331.	27.	0.98	9.76	4.62	4.62	816.	-4.	0.15	0.41
181	30	2.62	2.62	0.	-2.	0.01	-0.01	4.62	4.62	348.	-4.	0.05	0.14
183	30	2.62	2.62	0.	-3.	0.00	0.07	4.62	4.62	0.	-6.	0.00	0.05
185	30	2.62	2.62	876.	20.	0.33	1.71	4.62	4.62	266.	-22.	0.08	0.19
187	30	2.62	2.62	1504.	40.	0.22	1.70	4.62	4.62	0.	-50.	0.09	0.22
189	30	2.62	2.62	0.	44.	0.00	0.40	4.62	4.62	28.	3.	0.00	0.04
191	30	2.62	2.62	0.	62.	0.00	1.00	4.62	4.62	0.	18.	0.06	0.17
193	30	5.25	2.62	811.	70.	0.00	1.19	4.62	4.62	443.	-52.	0.12	0.27

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
32	1.0	0.5	0.7	34	0.1	1.1	0.9	36	0.1	1.1	1.1
38	0.6	0.7	0.7	40	0.6	0.8	0.9	42	0.1	1.2	1.1
44	0.1	1.1	1.0	46	0.9	0.4	0.6	179	1.4	0.1	1.2
181	0.4	0.2	0.3	183	0.3	0.2	0.3	185	1.2	0.9	1.1
187	1.3	1.0	1.2	189	0.3	0.2	0.3	191	0.4	0.2	0.3
193	1.4	0.3	1.1								

MACROGUSCIO muro\_9

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkr = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
32	2.62	2.62	0.	-17	0.55	-8.	0.000	0.	-17	0.57	-9.	0.000	45	-7	0.53	0.	0.000
34	2.62	2.62	574	-7	10.30	719.	0.000	577	-5	10.38	771.	0.000	528	-5	9.51	702.	0.000
36	2.62	2.62	394	-2	7.09	545.	0.000	390	-5	6.99	481.	0.000	331	-6	5.88	373.	0.000
38	2.62	2.62	0.	-5	0.17	-2.	0.000	0.	-2	0.08	-1.	0.000	91	-1	1.64	110.	0.000
40	2.62	2.62	0.	0.	0.01	0.	0.000	0.	-1	0.02	0.	0.000	64	-2	1.13	66.	0.000
42	2.62	2.62	326	-4	5.86	416.	0.000	331	-1	5.96	482.	0.000	271	-5	4.82	304.	0.000

44	2.62	2.62	545	-1	9.81	786.	0.000	569	-6	10.22	734.	0.000	545	-8	9.77	665.	0.000
46	2.62	2.62	0.	2	0.00	41.	0.000	0.	4	0.00	75.	0.000	94	-5	1.44	47.	0.000
179	2.62	2.62	0.	-22	0.72	-11.	0.000	0.	-24	0.78	-12.	0.000	0.	-28	0.89	-13.	0.000
181	2.62	2.62	1106	-9	19.89	1469.	0.000	1107	-13	19.88	1405.	0.000	1022	-14	18.31	1260.	0.000
183	2.62	2.62	1191	-2	21.44	1745.	0.000	1190	-3	21.44	1712.	0.000	963	-2	17.35	1398.	0.000
185	2.62	2.62	0.	-2	0.05	-1.	0.000	0.	0.	0.00	0.	0.000	0.	-2	0.07	-1.	0.000
187	2.62	2.62	0.	9	0.00	165.	0.000	0.	11	0.00	201.	0.000	0.	8	0.00	144.	0.000
189	2.62	2.62	1178	26	20.46	2262.	0.000	1181	22	20.70	2185.	0.000	959	7	17.16	1562.	0.000
191	2.62	2.62	1185	40	19.70	2555.	0.000	1200	33	20.43	2445.	0.000	1048	6	18.78	1679.	0.000
193	2.62	5.25	0.	26	0.00	502.	0.000	0.	22	0.00	427.	0.000	0.	9	0.00	165.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
32	4.62	4.62	0.	-16	0.49	-7.	0.000	0.	-10	0.31	-5.	0.000	0.	-11	0.35	-5.	0.000
34	4.62	4.62	0.	-19	0.60	-9.	0.000	0.	-11	0.36	-5.	0.000	0.	-9	0.29	-4.	0.000
36	4.62	4.62	0.	-44	1.40	-21.	0.000	0.	-30	0.94	-14.	0.000	0.	-21	0.67	-10.	0.000
38	4.62	4.62	0.	-70	2.23	-33.	0.000	0.	-52	1.67	-25.	0.000	0.	-48	1.52	-23.	0.000
40	4.62	4.62	0.	-78	2.48	-37.	0.000	0.	-64	2.05	-31.	0.000	0.	-55	1.75	-26.	0.000
42	4.62	4.62	0.	-41	1.30	-19.	0.000	0.	-35	1.10	-17.	0.000	0.	-28	0.90	-14.	0.000
44	4.62	4.62	0.	-63	2.00	-30.	0.000	0.	-53	1.70	-26.	0.000	0.	-24	0.76	-11.	0.000
46	4.62	4.62	0.	-260	8.29	-124.	0.000	0.	-225	7.16	-107.	0.000	0.	-130	4.13	-62.	0.000
179	4.62	4.62	29	-41	1.48	-17.	0.000	41	-30	1.22	-12.	0.000	83	-23	1.25	-5.	0.000
181	4.62	4.62	349	-19	4.46	113.	0.000	355	-14	4.74	160.	0.000	403	-10	5.54	243.	0.000
183	4.62	4.62	257	-31	2.91	1.	0.000	261	-22	4.34	9.	0.000	368	-14	4.95	176.	0.000
185	4.62	4.62	339	-82	4.68	-14.	0.000	366	-65	4.32	-4.	0.000	516	-45	7.73	12.	0.000
187	4.62	4.62	91	-57	2.38	-21.	0.000	117	-45	2.15	-13.	0.000	245	-37	2.81	0.	0.000
189	4.62	4.62	211	-20	2.72	3.	0.000	220	-17	2.57	39.	0.000	341	-15	4.53	147.	0.000
191	4.62	4.62	198	-48	2.75	-9.	0.000	203	-42	2.60	-5.	0.000	391	-14	5.28	194.	0.000
193	4.62	4.62	0.	-207	6.59	-99.	0.000	0.	-179	5.70	-85.	0.000	0.	-83	2.65	-40.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
32	2.62	2.62	1195	-17	21.41	1460.	0.000	1195	-17	21.39	1451.	0.000	789	-7	14.20	1048.	0.000
34	2.62	2.62	0.	-7	0.24	-4.	0.000	0.	-5	0.15	-2.	0.000	55	-5	0.71	11.	0.000
36	2.62	2.62	0.	-2	0.07	-1.	0.000	0.	-5	0.17	-3.	0.000	0.	-6	0.21	-3.	0.000
38	2.62	2.62	625	-5	11.24	835.	0.000	621	-2	11.19	882.	0.000	651	-1	11.72	944.	0.000
40	2.62	2.62	678	0.	12.20	1008.	0.000	675	-1	12.15	997.	0.000	637	-2	11.48	921.	0.000
42	2.62	2.62	0.	-4	0.12	-2.	0.000	0.	-1	0.02	0.	0.000	0.	-5	0.17	-3.	0.000
44	2.62	2.62	93	-1	1.67	112.	0.000	88	-6	1.24	30.	0.000	142	-8	2.20	73.	0.000
46	2.62	2.62	905	2	16.27	1393.	0.000	905	4	16.25	1427.	0.000	910	-5	16.38	1256.	0.000
179	2.62	2.62	1728	-22	30.99	2156.	0.000	1713	-24	30.70	2103.	0.000	1352	-28	24.01	1499.	0.000
181	2.62	2.62	0.	-9	0.31	-5.	0.000	0.	-13	0.42	-6.	0.000	0.	-14	0.45	-7.	0.000
183	2.62	2.62	0.	-2	0.05	-1.	0.000	0.	-3	0.11	-2.	0.000	0.	-2	0.07	-1.	0.000
185	2.62	2.62	1395	-2	25.12	2052.	0.000	1392	0.	25.06	2076.	0.000	1062	-2	19.13	1543.	0.000
187	2.62	2.62	1205	9	21.56	1966.	0.000	1189	11	21.24	1980.	0.000	1077	8	19.27	1753.	0.000
189	2.62	2.62	0.	26	0.00	492.	0.000	0.	22	0.00	413.	0.000	0.	7	0.00	128.	0.000
191	2.62	2.62	0.	40	0.00	762.	0.000	0.	33	0.00	636.	0.000	0.	6	0.00	113.	0.000
193	5.25	2.62	1520	26	19.37	1406.	0.000	1529	22	19.66	1375.	0.000	1349	9	17.76	1108.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
32	4.62	4.62	321	-16	4.20	123.	0.000	325	-10	4.44	180.	0.000	349	-11	4.75	187.	0.000
34	4.62	4.62	778	-19	10.71	473.	0.000	771	-11	10.66	545.	0.000	595	-9	8.23	416.	0.000
36	4.62	4.62	991	-44	13.12	414.	0.000	972	-30	13.26	531.	0.000	564	-21	7.59	271.	0.000
38	4.62	4.62	1088	-70	13.38	276.	0.000	1065	-52	13.87	398.	0.000	656	-48	7.79	131.	0.000
40	4.62	4.62	1089	-78	13.01	227.	0.000	1068	-64	13.38	305.	0.000	748	-55	8.86	147.	0.000
42	4.62	4.62	1044	-41	14.01	486.	0.000	1028	-35	13.95	531.	0.000	600	-28	7.87	234.	0.000
44	4.62	4.62	1161	-63	14.89	388.	0.000	1126	-53	14.76	438.	0.000	843	-24	11.54	478.	0.000
46	4.62	4.62	915	-260	2.69	-192.	0.000	845	-225	1.98	-169.	0.000	678	-130	0.03	-112.	0.000
179	4.62	4.62	231	-41	0.11	-37.	0.000	219	-30	2.48	0.	0.000	168	-23	1.89	0.	0.000
181	4.62	4.62	0.	-19	0.62	-9.	0.000	0.	-14	0.46	-7.	0.000	0.	-10	0.32	-5.	0.000
183	4.62	4.62	0.	-31	0.99	-15.	0.000	0.	-22	0.69	-10.	0.000	0.	-14	0.44	-7.	0.000
185	4.62	4.62	31	-82	2.42	-41.	0.000	3	-65	2.05	-31.	0.000	123	-45	0.68	-31.	0.000
187	4.62	4.62	0.	-57	1.82	-27.	0.000	0.	-45	1.43	-21.	0.000	0.	-37	1.18	-18.	0.000
189	4.62	4.62	0.	-20	0.65	-10.	0.000	0.	-17	0.54	-8.	0.000	0.	-15	0.46	-7.	0.000
191	4.62	4.62	0.	-48	1.54	-23.	0.000	0.	-42	1.35	-20.	0.000	0.	-14	0.44	-7.	0.000
193	4.62	4.62	379	-207	4.27	-127.	0.000	362	-179	3.48	-112.	0.000	266	-83	1.02	-59.	0.000

MACROGUSCIO pilastro\_10

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:



Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
55	30	10.22	10.22	118.	53.	0.00	0.21	7.78	7.78	1104.	-195.	0.20	1.26
202	30	10.22	10.22	542.	101.	0.00	0.66	7.78	7.78	1863.	377.	0.22	1.63
322	30	10.22	10.22	285.	378.	0.58	44.46	7.78	7.78	1096.	292.	0.00	1.41
347	30	3.53	3.57	58.	91.	0.00	1.35	7.78	7.78	1445.	161.	0.08	0.85
365	30	10.15	10.49	962.	-40.	0.15	0.28	7.78	7.78	4004.	-195.	0.51	0.74

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
55	30	10.22	10.22	759.	53.	0.00	0.27	7.78	7.78	1338.	177.	0.11	1.59
202	30	10.22	10.22	0.	101.	0.00	0.76	7.78	7.78	0.	377.	0.09	1.58
322	30	10.22	10.22	543.	378.	0.87	49.92	7.78	7.78	1932.	405.	0.00	1.73
347	30	3.57	3.53	235.	91.	0.00	1.23	7.78	7.78	2531.	161.	0.32	1.12
365	30	10.49	10.15	0.	-40.	0.08	0.24	7.78	7.78	0.	-19.	0.08	-0.08

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
55	0.5	1.2	0.8	202	1.5	0.4	1.1	322	0.6	0.9	0.6
347	0.8	0.9	1.1	365	1.1	2.0	1.4				

MACROGUSCIO pilastro\_10

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
55	10.22	10.22	0.	-6	0.19	-3.	0.000	285	9	2.33	157.	0.000	276	-16	2.67	43.	0.000
202	10.22	10.22	750	38	5.21	487.	0.000	590	38	3.45	425.	0.000	108	25	0.00	168.	0.000
322	8.54	8.55	269	31	0.00	312.	0.000	463	31	2.94	403.	0.000	555	15	5.10	352.	0.000
347	3.53	3.57	435	-7	6.79	386.	0.000	319	-6	4.97	275.	0.000	128	-10	1.58	26.	0.000
365	8.50	8.76	1221	-23	12.79	453.	0.000	749	-13	7.83	285.	0.000	390	-12	4.10	122.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
55	7.78	7.78	462	-327	12.81	-120.	0.000	445	-287	11.46	-102.	0.000	414	-278	11.00	-100.	0.000
202	7.78	7.78	2514	-365	27.67	3.	0.000	2162	-309	23.71	3.	0.000	1037	-269	14.34	-53.	0.000

322	7.78	7.78	0.	-249	7.70	-115.	0.000	0.	-208	6.44	-97.	0.000	0.	-210	6.48	-97.	0.000
347	7.78	7.78	0.	-154	4.77	-72.	0.000	0.	-115	3.57	-54.	0.000	0.	-167	5.16	-77.	0.000
365	7.78	7.78	2916	-142	31.45	705.	0.036	1692	-98	17.98	334.	0.000	761	-159	9.33	-21.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
55	10.22	10.22	382	-6	3.68	124.	0.000	656	9	5.84	304.	0.000	379	-16	3.70	81.	0.000
202	10.22	10.22	0.	38	0.00	188.	0.000	0.	38	0.00	188.	0.000	82	25	0.00	157.	0.000
322	8.55	8.54	1188	31	11.00	741.	0.000	1081	31	9.87	692.	0.000	722	15	6.84	430.	0.000
347	3.57	3.53	1020	-7	15.91	1029.	0.000	747	-6	11.65	744.	0.000	0.	-10	0.32	-5.	0.000
365	8.76	8.50	858	-23	8.96	274.	0.000	593	-13	6.18	205.	0.000	134	-12	1.85	3.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
55	7.78	7.78	1065	-327	3.95	-226.	0.000	948	-287	3.38	-199.	0.000	906	-278	3.34	-192.	0.000
202	7.78	7.78	0.	-365	11.29	-169.	0.000	0.	-309	9.54	-143.	0.000	0.	-269	8.33	-125.	0.000
322	7.78	7.78	2242	-249	24.99	13.	0.000	1794	-208	19.72	8.	0.000	902	-210	1.25	-160.	0.000
347	7.78	7.78	1190	-154	12.93	3.	0.000	806	-115	8.85	1.	0.000	716	-167	1.01	-127.	0.000
365	7.78	7.78	0.	-142	4.39	-66.	0.000	0.	-98	3.04	-46.	0.000	0.	-159	4.92	-74.	0.000

MACROGUSCIO pilastro\_32

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	-	forze	: [daN]
momenti	: [daNcm/cm]	-	tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	-	angoli	: [gradi]
armature	: [cm2]			

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOX
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	207.5	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	3	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

GUSCI	spess	INFERIORE ORIZZONTALE				INFERIORE VERTICALE							
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
119	30	10.11	10.14	2083.	73.	0.07	0.61	6.99	6.99	1820.	-8.	0.21	0.50
120	30	10.11	10.14	0.	191.	0.00	0.54	6.99	6.99	1872.	26.	0.15	0.61
266	30	10.11	10.14	828.	177.	0.00	1.26	6.99	6.99	0.	341.	0.00	1.16
267	30	10.11	10.14	234.	155.	0.00	0.49	6.99	6.99	0.	372.	0.00	1.27
330	30	10.11	10.14	0.	370.	0.00	13.33	6.99	6.99	0.	392.	0.16	1.33
331	30	10.11	10.14	483.	160.	0.00	0.81	6.99	6.99	0.	356.	0.11	1.21
370	30	10.11	10.22	1843.	-17.	1.07	27.26	6.99	6.99	0.	-335.	0.15	-0.15
371	30	10.11	10.22	152.	102.	0.10	0.78	6.99	6.99	0.	-335.	0.14	-0.14
408	30	10.11	3.52	917.	-6.	0.10	0.24	6.99	6.99	402.	-231.	0.15	-0.08
409	30	10.11	3.52	426.	31.	0.08	0.16	6.99	6.99	622.	-272.	0.19	0.06
445	30	10.40	10.32	0.	21.	0.00	0.05	6.99	6.99	0.	-181.	0.08	-0.08
446	30	10.40	10.32	0.	-27.	0.01	0.13	6.99	6.99	0.	-219.	0.09	-0.09

GUSCI	spess	SUPERIORE ORIZZONTALE				SUPERIORE VERTICALE							
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
119	30	10.14	10.11	263.	73.	0.00	0.37	6.99	6.99	0.	-49.	0.02	0.06
120	30	10.14	10.11	671.	191.	0.00	0.58	6.99	6.99	0.	4.	0.00	0.17
266	30	10.14	10.11	829.	177.	0.00	1.06	6.99	6.99	1548.	337.	0.00	1.58
267	30	10.14	10.11	2629.	155.	0.00	0.87	6.99	6.99	1200.	317.	0.00	1.52
330	30	10.14	10.11	1465.	370.	1.46	46.72	6.99	6.99	935.	392.	0.33	1.60
331	30	10.14	10.11	1633.	160.	0.00	0.83	6.99	6.99	913.	341.	0.29	1.44
370	30	10.22	3.61	211.	-17.	0.14	1.70	6.99	6.99	1314.	-330.	0.29	0.11
371	30	10.22	3.61	261.	102.	0.04	0.37	6.99	6.99	1255.	-331.	0.28	0.10
408	30	10.22	10.11	0.	-6.	0.12	0.45	6.99	6.99	0.	-224.	0.10	-0.10
409	30	10.22	10.11	0.	31.	0.04	0.30	6.99	6.99	0.	-249.	0.12	-0.12
445	30	10.32	10.40	220.	21.	0.04	0.15	6.99	6.99	0.	-173.	0.08	-0.08
446	30	10.32	10.40	85.	-27.	0.02	0.11	6.99	6.99	0.	-200.	0.11	-0.09

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
119	4.6	0.7	4.3	120	1.0	1.8	1.3	266	8.6	3.0	6.8
267	1.9	0.8	1.3	330	8.4	0.6	6.9	331	1.9	0.7	1.3
370	5.5	0.7	3.2	371	0.1	0.3	0.3	408	2.4	0.7	2.4
409	0.2	0.1	0.2	445	2.6	0.6	2.6	446	0.0	0.2	0.2

MACROGUSCIO pilastro\_32

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	- forze	: [daN]
momenti	: [daNcm/cm]	- tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	- angoli	: [gradi]
armature	: [cm2]		

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkr = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
119	10.11	10.14	1134	-17	10.93	380.	0.000	1086	-13	10.42	378.	0.000	944	-17	9.15	301.	0.000
120	10.11	10.14	890	-8	8.50	322.	0.000	772	-6	7.35	284.	0.000	346	-31	4.50	6.	0.000
266	10.11	10.14	1054	47	7.86	654.	0.000	1127	47	8.61	682.	0.000	831	8	7.56	372.	0.000
267	10.11	10.14	0.	-21	0.65	-10.	0.000	0.	-18	0.55	-8.	0.000	0.	-1	0.04	-1.	0.000
330	8.49	8.53	0.	8	0.00	47.	0.000	0.	8	0.00	46.	0.000	0.	9	0.00	53.	0.000
331	8.49	8.53	0.	23	0.00	134.	0.000	0.	18	0.00	103.	0.000	0.	5	0.00	29.	0.000
370	5.24	8.59	571	-5	7.16	387.	0.000	335	-6	4.21	203.	0.000	199	-15	2.16	32.	0.000
371	5.24	8.59	430	-48	4.74	2.	0.000	347	-44	3.74	1.	0.000	257	-13	3.03	79.	0.000
408	8.45	5.20	522	-1	5.59	245.	0.000	440	-1	4.72	206.	0.000	233	-2	2.53	101.	0.000
409	8.45	5.20	262	-6	2.89	91.	0.000	232	-5	2.55	82.	0.000	128	-1	1.39	55.	0.000
445	8.67	8.62	0.	9	0.00	51.	0.000	0.	8	0.00	47.	0.000	0.	3	0.00	18.	0.000
446	8.67	8.62	0.	-9	0.28	-4.	0.000	0.	-8	0.26	-4.	0.000	0.	-10	0.31	-5.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
119	6.99	6.99	2112	-427	25.72	-51.	0.000	1763	-374	22.01	-50.	0.000	671	-174	9.36	-34.	0.000
120	6.99	6.99	2350	-376	25.52	-10.	0.000	1953	-328	21.70	-16.	0.000	1004	-257	13.91	-49.	0.000
266	6.99	6.99	0.	-242	7.54	-113.	0.000	0.	-215	6.69	-100.	0.000	0.	-229	7.12	-107.	0.000
267	6.99	6.99	0.	-273	8.52	-128.	0.000	0.	-240	7.48	-112.	0.000	0.	-287	8.94	-134.	0.000
330	6.99	6.99	0.	-467	14.54	-218.	0.000	0.	-412	12.83	-192.	0.000	0.	-388	12.09	-181.	0.000
331	6.99	6.99	0.	-440	13.69	-205.	0.000	0.	-388	12.10	-181.	0.000	0.	-361	11.25	-169.	0.000
370	6.99	6.99	431	-392	14.75	-153.	0.000	394	-347	13.14	-135.	0.000	238	-364	12.76	-154.	0.000
371	6.99	6.99	488	-402	15.41	-154.	0.000	446	-355	13.67	-134.	0.000	270	-348	12.42	-144.	0.000
408	6.99	6.99	720	-224	11.20	-54.	0.000	624	-198	9.83	-48.	0.000	521	-201	9.34	-57.	0.000
409	6.99	6.99	701	-229	11.24	-57.	0.000	607	-202	9.86	-52.	0.000	402	-213	9.01	-71.	0.000
445	6.99	6.99	0.	-199	6.19	-93.	0.000	0.	-173	5.40	-81.	0.000	0.	-171	5.34	-80.	0.000
446	6.99	6.99	0.	-209	6.52	-98.	0.000	0.	-183	5.71	-86.	0.000	0.	-200	6.24	-94.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
119	10.14	10.11	0.	-17	0.50	-8.	0.000	0.	-13	0.39	-6.	0.000	0.	-17	0.52	-8.	0.000
120	10.14	10.11	54	-8	0.59	0.	0.000	62	-6	0.74	1.	0.000	550	-31	5.35	90.	0.000
266	10.14	10.11	0.	47	0.00	230.	0.000	0.	47	0.00	230.	0.000	0.	8	0.00	39.	0.000
267	10.14	10.11	1053	-21	10.22	326.	0.000	808	-18	7.86	242.	0.000	529	-1	4.98	206.	0.000
330	8.53	8.49	760	8	7.52	407.	0.000	480	8	4.65	273.	0.000	102	9	0.37	103.	0.000
331	8.53	8.49	730	23	6.59	479.	0.000	540	18	4.83	358.	0.000	414	5	4.08	225.	0.000
370	8.59	5.24	14	-5	0.08	-3.	0.000	113	-6	1.23	25.	0.000	125	-15	1.41	0.	0.000
371	8.59	5.24	246	-48	0.04	-40.	0.000	283	-44	3.24	0.	0.000	228	-13	2.45	42.	0.000
408	5.20	8.45	0.	-1	0.03	0.	0.000	0.	-1	0.03	0.	0.000	0.	-2	0.06	-1.	0.000
409	5.20	8.45	0.	-6	0.20	-3.	0.000	0.	-5	0.17	-3.	0.000	0.	-1	0.04	-1.	0.000
445	8.62	8.67	373	9	3.47	226.	0.000	339	8	3.16	206.	0.000	205	3	1.98	114.	0.000
446	8.62	8.67	219	-9	2.29	55.	0.000	206	-8	2.15	53.	0.000	64	-10	0.05	-9.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
119	6.99	6.99	0.	-427	13.31	-200.	0.000	0.	-374	11.65	-175.	0.000	0.	-174	5.42	-81.	0.000
120	6.99	6.99	0.	-376	11.71	-176.	0.000	0.	-328	10.22	-153.	0.000	0.	-257	8.01	-120.	0.000
266	6.99	6.99	834	-242	2.64	-172.	0.000	730	-215	2.40	-152.	0.000	613	-229	3.52	-150.	0.000
267	6.99	6.99	787	-273	3.89	-183.	0.000	692	-240	3.42	-161.	0.000	485	-287	6.08	-168.	0.000
330	6.99	6.99	1053	-467	8.35	-292.	0.000	899	-412	7.54	-256.	0.000	811	-388	7.32	-239.	0.000
331	6.99	6.99	1035	-440	7.61	-278.	0.000	894	-388	6.84	-245.	0.000	794	-361	6.58	-225.	0.000
370	6.99	6.99	86	-392	11.71	-189.	0.000	69	-347	10.42	-167.	0.000	131	-364	10.58	-180.	0.000
371	6.99	6.99	82	-402	12.05	-194.	0.000	65	-355	10.66	-170.	0.000	100	-348	10.25	-170.	0.000
408	6.99	6.99	0.	-224	6.97	-105.	0.000	0.	-198	6.17	-92.	0.000	0.	-201	6.27	-94.	0.000
409	6.99	6.99	0.	-229	7.12	-107.	0.000	0.	-202	6.30	-94.	0.000	0.	-213	6.65	-100.	0.000
445	6.99	6.99	415	-199	3.75	-122.	0.000	291	-173	3.69	-101.	0.000	234	-171	3.96	-97.	0.000
446	6.99	6.99	406	-209	4.13	-126.	0.000	288	-183	4.02	-106.	0.000	178	-200	5.19	-106.	0.000

MACROGUSCIO pilastro\_34

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 1 SLU  
 2 SLU VENTOX  
 3 SLU VENTYOY  
 6 SLU con SISMAX PRINC  
 7 SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE							INFERIORE VERTICALE				
		Af	Afc	Mom	Nor	epsF	epsC	Af	Afc	Mom	Nor	epsC	epsF
20	30	10.13	10.13	274.	-13.	0.03	0.05	16.08	16.08	783.	-402.	0.21	-0.07
21	30	10.13	10.13	0.	-38.	0.02	-0.02	16.08	16.08	783.	-402.	0.21	-0.07
22	30	10.13	10.13	0.	-71.	0.03	-0.03	16.08	16.08	783.	-402.	0.21	-0.07
23	30	10.13	10.13	513.	-18.	0.06	0.09	16.08	16.08	936.	-459.	0.24	-0.07
121	30	10.13	10.13	0.	-47.	0.02	-0.02	16.08	16.08	209.	-264.	0.11	-0.07
163	30	10.13	10.13	290.	-3.	0.03	0.06	16.08	16.08	57.	-403.	0.15	-0.14
164	30	10.13	10.13	459.	7.	0.03	0.11	16.08	16.08	17.	-440.	0.16	-0.16
165	30	10.13	10.13	0.	-4.	0.00	0.00	16.08	16.08	17.	-440.	0.16	-0.16
166	30	10.13	10.13	0.	-15.	0.01	-0.01	16.08	16.08	17.	-440.	0.16	-0.16
167	30	10.13	10.13	335.	27.	0.00	0.13	16.08	16.08	0.	-387.	0.14	-0.14
168	30	10.13	10.13	0.	106.	0.00	0.25	16.08	16.08	0.	-387.	0.14	-0.14
169	30	10.13	10.13	101.	31.	0.00	0.09	16.08	16.08	0.	-387.	0.14	-0.14
170	30	10.13	10.13	312.	103.	0.00	0.30	16.08	16.08	0.	-392.	0.15	-0.15
268	30	10.13	10.13	156.	191.	0.00	0.48	16.08	16.08	146.	-226.	0.09	-0.07
310	30	10.13	10.13	196.	152.	0.00	0.40	16.08	16.08	459.	-156.	0.09	-0.01
311	30	10.13	10.13	225.	262.	0.00	0.66	16.08	16.08	297.	24.	0.00	0.07
312	30	10.13	10.13	0.	506.	0.00	1.19	16.08	16.08	297.	24.	0.00	0.07
313	30	10.13	10.13	0.	281.	0.00	0.66	16.08	16.08	297.	24.	0.00	0.07
316	30	10.13	10.13	232.	251.	0.00	0.93	16.08	16.08	1800.	-488.	0.31	0.01
317	30	10.13	10.13	0.	388.	0.00	1.29	16.08	16.08	1800.	-488.	0.31	0.01
318	30	10.13	10.13	0.	165.	0.00	0.49	16.08	16.08	1800.	-488.	0.31	0.01
338	30	3.45	3.45	134.	81.	0.00	0.66	16.08	16.08	1051.	-762.	0.36	-0.18
339	30	3.45	3.45	133.	59.	0.00	0.84	16.08	16.08	1051.	-762.	0.36	-0.18
340	30	3.45	3.45	0.	33.	0.00	0.81	16.08	16.08	1051.	-762.	0.36	-0.18
357	30	3.45	3.45	294.	31.	0.03	0.48	16.08	16.08	0.	-763.	0.28	-0.28
358	30	3.45	3.45	333.	17.	0.02	0.39	16.08	16.08	0.	-763.	0.28	-0.28
359	30	3.45	3.45	190.	28.	0.00	0.56	16.08	16.08	0.	-763.	0.28	-0.28
379	30	10.34	10.34	0.	-16.	0.06	0.10	16.08	16.08	0.	-725.	0.27	-0.27
380	30	10.34	10.34	124.	-32.	0.04	0.07	16.08	16.08	0.	-725.	0.27	-0.27
381	30	10.34	10.34	30.	-12.	0.03	0.05	16.08	16.08	0.	-725.	0.27	-0.27
394	30	10.34	10.34	0.	-5.	0.02	-0.02	16.08	16.08	1707.	-469.	0.30	-0.02
395	30	10.34	10.34	0.	-18.	0.02	0.04	16.08	16.08	1707.	-469.	0.30	-0.02
396	30	10.34	10.34	8.	-26.	0.02	0.04	16.08	16.08	1707.	-469.	0.30	-0.02
417	30	3.45	3.45	118.	25.	0.01	0.24	16.08	16.08	616.	-460.	0.22	-0.11
418	30	3.45	3.45	71.	13.	0.00	0.14	16.08	16.08	616.	-460.	0.22	-0.11

419	30	3.45	3.45	40.	17.	0.00	0.23	16.08	16.08	616.	-460.	0.22	-0.11
433	30	3.45	3.45	117.	11.	0.02	0.16	16.08	16.08	0.	-456.	0.17	-0.17
434	30	3.45	3.45	70.	11.	0.00	0.11	16.08	16.08	0.	-456.	0.17	-0.17
435	30	3.45	3.45	107.	10.	0.00	0.14	16.08	16.08	0.	-456.	0.17	-0.17
454	30	10.34	10.34	266.	-12.	0.05	0.09	16.08	16.08	0.	-453.	0.17	-0.17
455	30	10.34	10.34	1.	-14.	0.05	0.07	16.08	16.08	0.	-453.	0.17	-0.17
456	30	10.34	10.34	162.	-11.	3.50	67.47	16.08	16.08	0.	-453.	0.17	-0.17

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
20	30	10.13	10.13	482.	-13.	0.05	0.09	16.08	16.08	0.	-402.	0.15	-0.15
21	30	10.13	10.13	1858.	-38.	0.19	0.33	16.08	16.08	0.	-402.	0.15	-0.15
22	30	10.13	10.13	1320.	-71.	0.15	0.21	16.08	16.08	0.	-402.	0.15	-0.15
23	30	10.13	10.13	228.	-18.	0.03	0.04	16.08	16.08	0.	-459.	0.17	-0.17
121	30	10.13	10.13	1018.	-47.	0.12	0.17	16.08	16.08	0.	-264.	0.10	-0.10
163	30	10.13	10.13	630.	-3.	0.06	0.12	16.08	16.08	77.	-403.	0.16	-0.14
164	30	10.13	10.13	294.	7.	0.01	0.07	16.08	16.08	143.	-440.	0.17	-0.15
165	30	10.13	10.13	1112.	-4.	0.11	0.21	16.08	16.08	143.	-440.	0.17	-0.15
166	30	10.13	10.13	539.	-15.	0.06	0.10	16.08	16.08	143.	-440.	0.17	-0.15
167	30	10.13	10.13	224.	27.	0.00	0.11	16.08	16.08	285.	-387.	0.16	-0.11
168	30	10.13	10.13	623.	106.	0.00	0.37	16.08	16.08	285.	-387.	0.16	-0.11
169	30	10.13	10.13	296.	31.	0.00	0.13	16.08	16.08	285.	-387.	0.16	-0.11
170	30	10.13	10.13	128.	103.	0.00	0.27	16.08	16.08	295.	-392.	0.17	-0.11
268	30	10.13	10.13	160.	191.	0.00	0.48	16.08	16.08	1051.	-226.	0.16	0.03
310	30	10.13	10.13	21.	152.	0.00	0.36	16.08	16.08	0.	-156.	0.06	-0.06
311	30	10.13	10.13	0.	262.	0.00	0.61	16.08	16.08	32.	24.	0.00	0.04
312	30	10.13	10.13	469.	506.	0.00	1.28	16.08	16.08	32.	24.	0.00	0.04
313	30	10.13	10.13	303.	281.	0.00	0.72	16.08	16.08	32.	24.	0.00	0.04
316	30	10.13	10.13	0.	251.	0.00	0.89	16.08	16.08	29.	-488.	0.18	-0.18
317	30	10.13	10.13	309.	388.	0.00	1.37	16.08	16.08	29.	-488.	0.18	-0.18
318	30	10.13	10.13	236.	165.	0.00	0.44	16.08	16.08	29.	-488.	0.18	-0.18
338	30	3.45	3.45	100.	81.	0.00	0.63	16.08	16.08	0.	-707.	0.28	-0.28
339	30	3.45	3.45	265.	59.	0.00	0.95	16.08	16.08	0.	-707.	0.28	-0.28
340	30	3.45	3.45	239.	33.	0.00	0.70	16.08	16.08	0.	-707.	0.28	-0.28
357	30	3.45	3.45	194.	31.	0.00	0.32	16.08	16.08	603.	-763.	0.33	-0.23
358	30	3.45	3.45	355.	17.	0.00	0.40	16.08	16.08	603.	-763.	0.33	-0.23
359	30	3.45	3.45	310.	28.	0.00	0.44	16.08	16.08	603.	-763.	0.33	-0.23
379	30	10.34	10.34	126.	-16.	0.03	0.06	16.08	16.08	2223.	-720.	0.43	-0.06
380	30	10.34	10.34	333.	-32.	0.05	0.07	16.08	16.08	2223.	-720.	0.43	-0.06
381	30	10.34	10.34	216.	-12.	0.04	0.07	16.08	16.08	2223.	-720.	0.43	-0.06
394	30	10.34	10.34	103.	-5.	0.05	0.08	16.08	16.08	0.	-469.	0.17	-0.17
395	30	10.34	10.34	263.	-18.	0.04	0.04	16.08	16.08	0.	-469.	0.17	-0.17
396	30	10.34	10.34	70.	-26.	0.04	0.06	16.08	16.08	0.	-469.	0.17	-0.17
417	30	3.45	3.45	88.	25.	0.01	0.26	16.08	16.08	0.	-451.	0.17	-0.17
418	30	3.45	3.45	104.	13.	0.00	0.15	16.08	16.08	0.	-451.	0.17	-0.17
419	30	3.45	3.45	12.	17.	0.00	0.23	16.08	16.08	0.	-451.	0.17	-0.17
433	30	3.45	3.45	92.	11.	0.00	0.13	16.08	16.08	544.	-453.	0.21	-0.11
434	30	3.45	3.45	42.	11.	0.00	0.10	16.08	16.08	544.	-453.	0.21	-0.11
435	30	3.45	3.45	0.	10.	0.00	0.11	16.08	16.08	544.	-453.	0.21	-0.11
454	30	10.34	10.34	68.	-12.	0.01	0.01	16.08	16.08	1559.	-453.	0.29	-0.01
455	30	10.34	10.34	0.	-14.	0.03	0.03	16.08	16.08	1559.	-453.	0.29	-0.01
456	30	10.34	10.34	17.	-11.	0.01	-0.01	16.08	16.08	1559.	-453.	0.29	-0.01

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
20	1.5	4.7	4.9	21	1.7	1.5	2.2	22	8.2	2.8	8.6
23	3.2	0.7	3.3	121	6.5	1.9	6.8	163	3.1	0.6	3.2
164	0.8	1.3	1.5	165	5.8	0.7	5.9	166	16.4	6.2	17.6
167	0.6	0.5	0.8	168	6.2	0.4	6.2	169	13.7	4.7	14.5
170	1.4	0.3	1.5	268	6.9	1.5	7.0	310	1.4	0.5	1.5
311	1.5	1.2	1.9	312	3.1	1.3	3.3	313	17.7	6.5	18.9
316	1.7	0.7	1.2	317	3.2	1.0	2.6	318	16.6	4.1	9.3
338	0.3	0.8	0.8	339	1.0	0.9	1.0	340	2.3	3.5	3.3
357	0.3	0.7	0.7	358	0.9	0.9	0.8	359	1.9	3.5	2.7
379	0.4	1.3	1.1	380	1.1	1.9	1.4	381	3.8	1.1	2.4
394	0.3	1.3	1.2	395	0.6	1.1	1.0	396	3.9	1.2	2.3
417	0.2	0.6	0.5	418	0.6	0.7	0.8	419	0.8	2.4	1.9
433	0.2	0.6	0.6	434	0.5	0.7	0.6	435	1.0	2.5	1.8
454	0.7	0.6	0.6	455	1.9	1.1	1.5	456	2.7	3.0	2.2

MACROGUSCIO pilastro\_34

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	-	forze	: [daN]
momenti	: [daNcm/cm]	-	tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	-	angoli	: [gradi]
armature	: [cm2]			

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)

- 19 Frequente VentoX (FREQUENTE)
- 20 Frequente VentoY (FREQUENTE)
- 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA						COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE					
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
20	10.13	10.13	123	-23	1.38	-2.	0.000	143	-19	1.52	0.	0.000	150	-18	1.59	1.	0.000
21	10.13	10.13	0.	-37	1.11	-17.	0.000	0.	-32	0.97	-15.	0.000	0.	-30	0.92	-14.	0.000
22	10.13	10.13	0.	-12	0.37	-6.	0.000	0.	-11	0.34	-5.	0.000	0.	-11	0.32	-5.	0.000
23	10.13	10.13	324	-13	3.17	74.	0.000	308	-9	3.01	83.	0.000	303	-8	2.95	86.	0.000
121	10.13	10.13	0.	-9	0.29	-4.	0.000	0.	-8	0.24	-4.	0.000	0.	-7	0.22	-3.	0.000
163	10.13	10.13	140	-17	1.48	0.	0.000	155	-15	1.87	2.	0.000	159	-14	2.23	4.	0.000
164	10.13	10.13	281	-19	2.71	36.	0.000	264	-17	2.55	37.	0.000	258	-16	2.49	37.	0.000
165	10.13	10.13	0.	-11	0.33	-5.	0.000	0.	-8	0.24	-4.	0.000	0.	-7	0.21	-3.	0.000
166	10.13	10.13	0.	-56	1.70	-26.	0.000	0.	-51	1.55	-23.	0.000	0.	-49	1.50	-22.	0.000
167	10.13	10.13	240	-8	2.35	61.	0.000	241	-8	2.36	61.	0.000	242	-8	2.37	61.	0.000
168	10.13	10.13	0.	13	0.00	62.	0.000	0.	9	0.00	46.	0.000	0.	8	0.00	41.	0.000
169	10.13	10.13	6	-23	0.73	-10.	0.000	86	-21	1.13	-4.	0.000	112	-21	1.26	-2.	0.000
170	10.13	10.13	266	21	1.15	213.	0.000	248	17	1.41	182.	0.000	247	16	1.42	181.	0.000
268	10.13	10.13	83	-1	0.80	28.	0.000	197	-2	1.88	71.	0.000	240	-2	2.28	88.	0.000
310	10.13	10.13	143	19	0.00	151.	0.000	228	9	1.74	138.	0.000	219	19	0.81	181.	0.000
311	10.13	10.13	100	41	0.00	241.	0.000	233	22	0.61	202.	0.000	238	30	0.00	248.	0.000
312	10.13	10.13	0.	58	0.00	288.	0.000	31	48	0.00	252.	0.000	52	45	0.00	243.	0.000
313	10.13	10.13	117	11	0.30	102.	0.000	222	10	1.67	136.	0.000	175	6	1.40	101.	0.000
316	10.13	10.13	18	33	0.00	171.	0.000	248	41	0.00	305.	0.000	168	27	0.00	202.	0.000
317	10.13	10.13	30	72	0.00	369.	0.000	87	60	0.00	331.	0.000	53	43	0.00	232.	0.000
318	10.13	10.13	137	22	0.00	167.	0.000	216	19	0.76	181.	0.000	107	10	0.22	94.	0.000
338	3.45	3.45	20	4	0.00	88.	0.000	104	22	0.00	445.	0.000	80	-5	1.11	30.	0.000
339	3.45	3.45	94	5	1.17	186.	0.000	120	4	1.74	195.	0.000	123	-1	1.94	123.	0.000
340	3.45	3.45	6	11	0.00	166.	0.000	12	7	0.00	114.	0.000	0.	2	0.00	32.	0.000
357	3.45	3.45	273	-1	4.32	294.	0.000	243	-1	3.84	265.	0.000	215	7	3.09	354.	0.000
358	3.45	3.45	339	8	5.11	503.	0.000	283	7	4.24	429.	0.000	238	8	3.40	396.	0.000
359	3.45	3.45	176	-1	2.79	190.	0.000	122	-1	1.94	122.	0.000	43	3	0.41	99.	0.000
379	10.34	10.34	273	-10	2.65	64.	0.000	236	-9	2.29	54.	0.000	161	-33	1.91	-4.	0.000
380	10.34	10.34	313	-17	3.02	53.	0.000	258	-16	2.48	36.	0.000	216	-16	2.06	25.	0.000
381	10.34	10.34	151	-11	1.44	16.	0.000	121	-10	1.73	3.	0.000	65	-2	0.63	16.	0.000
394	10.34	10.34	0.	-31	0.93	-14.	0.000	0.	-21	0.63	-9.	0.000	0.	-32	0.97	-15.	0.000
395	10.34	10.34	0.	-8	0.25	-4.	0.000	0.	-7	0.20	-3.	0.000	0.	-15	0.45	-7.	0.000
396	10.34	10.34	0.	-14	0.42	-6.	0.000	11	-10	0.37	-4.	0.000	0.	-8	0.24	-4.	0.000
417	3.45	3.45	0.	-9	0.30	-4.	0.000	0.	-4	0.13	-2.	0.000	0.	5	0.00	77.	0.000
418	3.45	3.45	0.	4	0.00	62.	0.000	0.	2	0.00	27.	0.000	0.	7	0.00	104.	0.000
419	3.45	3.45	0.	-1	0.04	-1.	0.000	12	-2	0.13	0.	0.000	1	2	0.00	35.	0.000
433	3.45	3.45	73	6	0.54	177.	0.000	61	6	0.33	156.	0.000	11	4	0.00	68.	0.000
434	3.45	3.45	44	-8	0.54	-1.	0.000	19	-9	0.40	-3.	0.000	24	7	0.00	133.	0.000
435	3.45	3.45	66	1	1.01	89.	0.000	35	1	0.53	51.	0.000	0.	3	0.00	45.	0.000
454	10.34	10.34	266	-7	2.56	76.	0.000	213	-4	2.04	68.	0.000	117	-4	1.13	29.	0.000
455	10.34	10.34	258	-41	2.66	-1.	0.000	167	-35	2.00	-5.	0.000	104	-13	1.09	0.	0.000
456	5.17	10.34	221	-8	2.66	94.	0.000	148	-7	1.72	49.	0.000	54	-5	0.61	0.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA						COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE					
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
20	16.08	16.08	1108	-460	18.85	-130.	0.000	938	-404	16.37	-117.	0.000	884	-385	15.56	-112.	0.000
21	16.08	16.08	1108	-460	18.85	-130.	0.000	938	-404	16.37	-117.	0.000	884	-385	15.56	-112.	0.000
22	16.08	16.08	1108	-460	18.85	-130.	0.000	938	-404	16.37	-117.	0.000	884	-385	15.56	-112.	0.000
23	16.08	16.08	1013	-488	19.16	-148.	0.000	857	-429	16.69	-132.	0.000	808	-410	15.89	-127.	0.000
121	16.08	16.08	296	-278	9.49	-102.	0.000	269	-242	8.31	-88.	0.000	261	-230	7.92	-83.	0.000
163	16.08	16.08	170	-400	12.34	-162.	0.000	139	-354	10.88	-144.	0.000	129	-339	10.39	-138.	0.000
164	16.08	16.08	157	-429	13.11	-175.	0.000	130	-380	11.58	-156.	0.000	122	-364	11.07	-149.	0.000
165	16.08	16.08	157	-429	13.11	-175.	0.000	130	-380	11.58	-156.	0.000	122	-364	11.07	-149.	0.000
166	16.08	16.08	157	-429	13.11	-175.	0.000	130	-380	11.58	-156.	0.000	122	-364	11.07	-149.	0.000
167	16.08	16.08	0.	-416	11.95	-179.	0.000	0.	-365	10.48	-157.	0.000	0.	-348	9.99	-150.	0.000
168	16.08	16.08	0.	-416	11.95	-179.	0.000	0.	-365	10.48	-157.	0.000	0.	-348	9.99	-150.	0.000
169	16.08	16.08	0.	-416	11.95	-179.	0.000	0.	-365	10.48	-157.	0.000	0.	-348	9.99	-150.	0.000
170	16.08	16.08	0.	-434	12.46	-187.	0.000	0.	-381	10.93	-164.	0.000	0.	-363	10.41	-156.	0.000
268	16.08	16.08	36	-202	5.99	-85.	0.000	100	-181	5.71	-72.	0.000	123	-173	5.60	-67.	0.000
310	16.08	16.08	0.	-474	13.60	-204.	0.000	0.	-412	11.82	-177.	0.000	0.	-393	11.28	-169.	0.000
311	16.08	16.08	0.	-550	15.80	-237.	0.000	0.	-475	13.64	-205.	0.000	0.	-454	13.03	-195.	0.000
312	16.08	16.08	0.	-550	15.80	-237.	0.000	0.	-475	13.64	-205.	0.000	0.	-454	13.03	-195.	0.000
313	16.08	16.08	0.	-550	15.80	-237.	0.000	0.	-475	13.64	-205.	0.000	0.	-454	13.03	-195.	0.000
316	16.08	16.08	0.	-851	24.43	-366.	0.000	0.	-720	20.69	-310.	0.000	0.	-708	20.32	-305.	0.000
317	16.08	16.08	0.	-851	24.43	-366.	0.000	0.	-720	20.69	-310.	0.000	0.	-708	20.32	-305.	0.000
318	16.08	16.08	0.	-851	24.43	-366.	0.000	0.	-720	20.69	-310.	0.000	0.	-708	20.32	-305.	0.000
338	16.08	16.08	0.	-869	24.97	-375.	0.000	0.	-761	21.85	-328.	0.000	0.	-704	20.20	-303.	0.000
339	16.08	16.08	0.	-869	24.97	-375.	0.000	0.	-761	21.85	-328.	0.000	0.	-704	20.20	-303.	0.000
340	16.08	16.08	0.	-869	24.97	-375.	0.000	0.	-761	21.85	-328.	0.000	0.	-704	20.20	-303.	0.000

357	16.08	16.08	416	-842	26.30	-337.	0.000	375	-744	23.28	-298.	0.000	348	-709	22.12	-284.	0.000
358	16.08	16.08	416	-842	26.30	-337.	0.000	375	-744	23.28	-298.	0.000	348	-709	22.12	-284.	0.000
359	16.08	16.08	416	-842	26.30	-337.	0.000	375	-744	23.28	-298.	0.000	348	-709	22.12	-284.	0.000
379	16.08	16.08	1359	-816	30.35	-268.	0.000	1198	-715	26.63	-235.	0.000	1113	-687	25.41	-228.	0.000
380	16.08	16.08	1359	-816	30.35	-268.	0.000	1198	-715	26.63	-235.	0.000	1113	-687	25.41	-228.	0.000
381	16.08	16.08	1359	-816	30.35	-268.	0.000	1198	-715	26.63	-235.	0.000	1113	-687	25.41	-228.	0.000
394	16.08	16.08	0.	-517	14.84	-223.	0.000	0.	-456	13.10	-197.	0.000	0.	-456	13.10	-197.	0.000
395	16.08	16.08	0.	-517	14.84	-223.	0.000	0.	-456	13.10	-197.	0.000	0.	-456	13.10	-197.	0.000
396	16.08	16.08	0.	-517	14.84	-223.	0.000	0.	-456	13.10	-197.	0.000	0.	-456	13.10	-197.	0.000
417	16.08	16.08	0.	-528	15.16	-227.	0.000	0.	-465	13.36	-200.	0.000	0.	-453	12.99	-195.	0.000
418	16.08	16.08	0.	-528	15.16	-227.	0.000	0.	-465	13.36	-200.	0.000	0.	-453	12.99	-195.	0.000
419	16.08	16.08	0.	-528	15.16	-227.	0.000	0.	-465	13.36	-200.	0.000	0.	-453	12.99	-195.	0.000
433	16.08	16.08	445	-527	17.40	-200.	0.000	397	-463	15.33	-175.	0.000	357	-448	14.67	-171.	0.000
434	16.08	16.08	445	-527	17.40	-200.	0.000	397	-463	15.33	-175.	0.000	357	-448	14.67	-171.	0.000
435	16.08	16.08	445	-527	17.40	-200.	0.000	397	-463	15.33	-175.	0.000	357	-448	14.67	-171.	0.000
454	16.08	16.08	1095	-538	21.03	-165.	0.000	994	-472	18.63	-143.	0.000	887	-436	17.03	-133.	0.000
455	16.08	16.08	1095	-538	21.03	-165.	0.000	994	-472	18.63	-143.	0.000	887	-436	17.03	-133.	0.000
456	16.08	16.08	1095	-538	21.03	-165.	0.000	994	-472	18.63	-143.	0.000	887	-436	17.03	-133.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
20	Af	Afc	373	-23	3.61	54.	0.000	332	-19	3.23	53.	0.000	320	-18	3.11	53.	0.000
21	10.13	10.13	1396	-37	13.63	394.	0.000	1222	-32	11.93	346.	0.000	1167	-30	11.39	331.	0.000
22	10.13	10.13	1088	-12	10.43	380.	0.000	935	-11	8.97	324.	0.000	886	-11	8.50	306.	0.000
23	10.13	10.13	193	-13	1.86	26.	0.000	201	-9	1.97	41.	0.000	205	-8	2.01	47.	0.000
121	10.13	10.13	832	-9	7.98	291.	0.000	729	-8	6.98	256.	0.000	697	-7	6.67	246.	0.000
163	10.13	10.13	424	-17	4.15	94.	0.000	412	-15	4.04	101.	0.000	409	-14	4.01	103.	0.000
164	10.13	10.13	272	-19	2.61	33.	0.000	269	-17	2.60	39.	0.000	267	-16	2.59	41.	0.000
165	10.13	10.13	911	-11	8.74	316.	0.000	797	-8	7.63	283.	0.000	760	-7	7.26	273.	0.000
166	10.13	10.13	632	-56	8.33	12.	0.000	525	-51	6.16	6.	0.000	490	-49	5.59	4.	0.000
167	10.13	10.13	170	-8	1.67	34.	0.000	157	-8	1.53	28.	0.000	150	-8	1.47	26.	0.000
168	10.13	10.13	558	13	4.80	285.	0.000	477	9	4.16	236.	0.000	448	8	3.93	220.	0.000
169	10.13	10.13	522	-23	5.11	110.	0.000	423	-21	4.13	78.	0.000	390	-21	3.80	68.	0.000
170	10.13	10.13	115	21	0.00	152.	0.000	101	17	0.00	124.	0.000	91	16	0.00	119.	0.000
268	10.13	10.13	308	-1	2.91	119.	0.000	215	-2	2.05	78.	0.000	185	-2	1.77	66.	0.000
310	10.13	10.13	52	19	0.00	114.	0.000	0.	9	0.00	47.	0.000	0.	19	0.00	92.	0.000
311	10.13	10.13	50	41	0.00	221.	0.000	0.	22	0.00	106.	0.000	0.	30	0.00	150.	0.000
312	10.13	10.13	276	58	0.00	401.	0.000	189	48	0.00	317.	0.000	172	45	0.00	292.	0.000
313	10.13	10.13	274	11	2.12	163.	0.000	178	10	1.21	119.	0.000	181	6	1.46	103.	0.000
316	10.13	10.13	149	33	0.00	224.	0.000	0.	41	0.00	203.	0.000	0.	27	0.00	133.	0.000
317	10.13	10.13	150	72	0.00	418.	0.000	93	60	0.00	333.	0.000	153	43	0.00	273.	0.000
318	10.13	10.13	7	22	0.00	113.	0.000	0.	19	0.00	92.	0.000	40	10	0.00	67.	0.000
338	3.45	3.45	278	4	4.28	382.	0.000	115	22	0.00	459.	0.000	195	-5	3.05	156.	0.000
339	3.45	3.45	240	5	3.63	352.	0.000	208	4	3.17	295.	0.000	246	-1	3.90	264.	0.000
340	3.45	3.45	37	11	0.00	203.	0.000	5	7	0.00	105.	0.000	102	2	1.54	150.	0.000
357	3.45	3.45	40	-1	0.61	28.	0.000	65	-1	1.03	62.	0.000	125	7	1.51	253.	0.000
358	3.45	3.45	36	8	0.00	156.	0.000	75	7	0.36	193.	0.000	137	8	1.60	282.	0.000
359	3.45	3.45	0.	-1	0.02	0.	0.000	0.	-1	0.04	-1.	0.000	19	3	0.00	71.	0.000
379	10.34	10.34	0.	-10	0.30	-4.	0.000	0.	-9	0.27	-4.	0.000	0.	-33	1.01	-15.	0.000
380	10.34	10.34	0.	-17	0.51	-8.	0.000	0.	-16	0.49	-7.	0.000	5	-16	0.44	-7.	0.000
381	10.34	10.34	0.	-11	0.34	-5.	0.000	0.	-10	0.31	-5.	0.000	0.	-2	0.07	-1.	0.000
394	10.34	10.34	186	-31	0.10	-26.	0.000	143	-21	1.54	0.	0.000	60	-32	0.64	-19.	0.000
395	10.34	10.34	134	-8	1.29	19.	0.000	149	-7	1.45	31.	0.000	114	-15	1.20	0.	0.000
396	10.34	10.34	45	-14	0.17	-9.	0.000	22	-10	0.18	-6.	0.000	33	-8	0.06	-6.	0.000
417	3.45	3.45	41	-9	0.04	-8.	0.000	21	-4	0.01	-3.	0.000	39	5	0.00	124.	0.000
418	3.45	3.45	101	4	1.39	179.	0.000	97	2	1.48	139.	0.000	54	7	0.00	170.	0.000
419	3.45	3.45	46	-1	0.70	33.	0.000	11	-2	0.12	0.	0.000	12	2	0.00	50.	0.000
433	3.45	3.45	0.	6	0.00	90.	0.000	0.	6	0.00	83.	0.000	0.	4	0.00	55.	0.000
434	3.45	3.45	0.	-8	0.27	-4.	0.000	0.	-9	0.28	-4.	0.000	0.	7	0.00	104.	0.000
435	3.45	3.45	0.	1	0.00	14.	0.000	0.	1	0.00	11.	0.000	0.	3	0.00	45.	0.000
454	10.34	10.34	0.	-7	0.20	-3.	0.000	0.	-4	0.11	-2.	0.000	0.	-4	0.12	-2.	0.000
455	10.34	10.34	0.	-41	1.23	-18.	0.000	0.	-35	1.07	-16.	0.000	0.	-13	0.40	-6.	0.000
456	10.34	5.17	0.	-8	0.26	-4.	0.000	0.	-7	0.23	-3.	0.000	0.	-5	0.17	-3.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
20	Af	Afc	0.	-460	13.21	-198.	0.000	0.	-404	11.60	-174.	0.000	0.	-385	11.06	-166.	0.000
21	16.08	16.08	0.	-460	13.21	-198.	0.000	0.	-404	11.60	-174.	0.000	0.	-385	11.06	-166.	0.000
22	16.08	16.08	0.	-460	13.21	-198.	0.000	0.	-404	11.60	-174.	0.000	0.	-385	11.06	-166.	0.000
23	16.08	16.08	0.	-488	14.00	-210.	0.000	0.	-429	12.32	-185.	0.000	0.	-410	11.77	-177.	0.000
121	16.08	16.08	0.	-278	7.98	-120.	0.000	0.	-242	6.94	-104.	0.000	0.	-230	6.59	-99.	0.000
163	16.08	16.08	0.	-400	11.48	-172.	0.000	0.	-354	10.18	-153.	0.000	0.	-339	9.74	-146.	0.000
164	16.08	16.08	21	-429	12.20	-186.	0.000	46	-380	10.68	-167.	0.000	53	-364	10.18	-160.	0.000
165	16.08	16.08	21	-429	12.20	-186.	0.000	46	-380	10.68	-167.	0.000	53	-364	10.18	-160.	0.000
166	16.08	16.08	21	-429	12.20	-186.	0.000	46	-380	10.68	-167.	0.000	53	-364	10.18	-160.	0.000
167	16.08	16.08	395	-416	9.93	-203.	0.000	341	-365	8.75	-178.	0.000	322	-348	8.35	-170.	0.000
168	16.08	16.08	395	-416	9.93	-203.	0.000	341	-365	8.75	-178.	0.000	322	-348	8.35	-170.	0.000
169	16.08	16.08	395	-416	9.93	-203.	0.000	341	-365	8.75	-178.	0.000	322	-348	8.35	-170.	0.000
170	16.08	16.08	345	-434	10.70	-208.	0.000	277	-381	9.52	-181.	0.000	255	-363	9.11	-172.	0.000
268	16.08	16.08	806	-202	1.71	-136.	0.000	681	-181	1.72	-120.	0.000	641	-173	1.71	-114.	0.000
310	16.08	16.08	293	-474	12.11	-222.	0.000	120	-412	11.21	-185.	0.000	79	-393	10.88	-174.	0.000
311	16.08																

316	16.08	16.08	1376	-851	17.42	-451.	0.000	1120	-720	14.98	-379.	0.000	1072	-708	14.85	-370.	0.000
317	16.08	16.08	1376	-851	17.42	-451.	0.000	1120	-720	14.98	-379.	0.000	1072	-708	14.85	-370.	0.000
318	16.08	16.08	1376	-851	17.42	-451.	0.000	1120	-720	14.98	-379.	0.000	1072	-708	14.85	-370.	0.000
338	16.08	16.08	590	-869	21.96	-411.	0.000	506	-761	19.28	-359.	0.000	466	-704	17.83	-332.	0.000
339	16.08	16.08	590	-869	21.96	-411.	0.000	506	-761	19.28	-359.	0.000	466	-704	17.83	-332.	0.000
340	16.08	16.08	590	-869	21.96	-411.	0.000	506	-761	19.28	-359.	0.000	466	-704	17.83	-332.	0.000
357	16.08	16.08	0.	-842	24.18	-363.	0.000	0.	-744	21.37	-321.	0.000	0.	-709	20.35	-305.	0.000
358	16.08	16.08	0.	-842	24.18	-363.	0.000	0.	-744	21.37	-321.	0.000	0.	-709	20.35	-305.	0.000
359	16.08	16.08	0.	-842	24.18	-363.	0.000	0.	-744	21.37	-321.	0.000	0.	-709	20.35	-305.	0.000
379	16.08	16.08	0.	-816	23.43	-351.	0.000	0.	-715	20.53	-308.	0.000	0.	-687	19.74	-296.	0.000
380	16.08	16.08	0.	-816	23.43	-351.	0.000	0.	-715	20.53	-308.	0.000	0.	-687	19.74	-296.	0.000
381	16.08	16.08	0.	-816	23.43	-351.	0.000	0.	-715	20.53	-308.	0.000	0.	-687	19.74	-296.	0.000
394	16.08	16.08	850	-517	10.51	-275.	0.000	786	-456	9.10	-245.	0.000	758	-456	9.24	-243.	0.000
395	16.08	16.08	850	-517	10.51	-275.	0.000	786	-456	9.10	-245.	0.000	758	-456	9.24	-243.	0.000
396	16.08	16.08	850	-517	10.51	-275.	0.000	786	-456	9.10	-245.	0.000	758	-456	9.24	-243.	0.000
417	16.08	16.08	215	-528	14.07	-241.	0.000	203	-465	12.32	-213.	0.000	193	-453	12.01	-207.	0.000
418	16.08	16.08	215	-528	14.07	-241.	0.000	203	-465	12.32	-213.	0.000	193	-453	12.01	-207.	0.000
419	16.08	16.08	215	-528	14.07	-241.	0.000	203	-465	12.32	-213.	0.000	193	-453	12.01	-207.	0.000
433	16.08	16.08	0.	-527	15.13	-227.	0.000	0.	-463	13.31	-200.	0.000	0.	-448	12.85	-193.	0.000
434	16.08	16.08	0.	-527	15.13	-227.	0.000	0.	-463	13.31	-200.	0.000	0.	-448	12.85	-193.	0.000
435	16.08	16.08	0.	-527	15.13	-227.	0.000	0.	-463	13.31	-200.	0.000	0.	-448	12.85	-193.	0.000
454	16.08	16.08	0.	-538	15.46	-232.	0.000	0.	-472	13.57	-203.	0.000	0.	-436	12.51	-188.	0.000
455	16.08	16.08	0.	-538	15.46	-232.	0.000	0.	-472	13.57	-203.	0.000	0.	-436	12.51	-188.	0.000
456	16.08	16.08	0.	-538	15.46	-232.	0.000	0.	-472	13.57	-203.	0.000	0.	-436	12.51	-188.	0.000

MACROGUSCIO platea

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

		INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
1	30	4.81	4.81	0.	0.	0.00	0.00	4.61	4.61	673.	0.	0.10	0.28
2	30	4.81	4.81	1048.	0.	0.15	0.42	4.61	4.61	1298.	0.	0.19	0.55
3	30	4.81	4.81	407.	0.	0.06	0.16	4.61	4.61	721.	0.	0.10	0.30
4	30	4.81	4.81	360.	0.	0.05	0.15	4.61	4.61	1049.	0.	0.15	0.44
5	30	4.81	4.81	809.	0.	0.11	0.33	4.61	4.61	520.	0.	0.07	0.22
6	30	4.81	4.81	725.	0.	0.10	0.29	4.61	4.61	710.	0.	0.10	0.30
7	30	4.81	4.81	555.	0.	0.08	0.22	4.61	4.61	657.	0.	0.09	0.28
8	30	4.81	4.81	357.	0.	0.05	0.14	4.61	4.61	751.	0.	0.11	0.32
9	30	4.81	4.81	0.	0.	0.00	0.00	4.61	4.61	633.	0.	0.09	0.27
10	30	4.81	4.81	430.	0.	0.06	0.17	4.61	4.61	475.	0.	0.07	0.20
11	30	4.81	4.81	798.	0.	0.11	0.32	4.61	4.61	559.	0.	0.08	0.23
12	30	4.81	4.81	259.	0.	0.04	0.10	4.61	4.61	352.	0.	0.05	0.15
13	30	4.81	4.81	284.	0.	0.04	0.11	4.61	4.61	572.	0.	0.08	0.24
14	30	4.81	4.81	162.	0.	0.02	0.07	4.61	4.61	620.	0.	0.09	0.26
15	30	4.81	4.81	383.	0.	0.05	0.15	4.61	4.61	642.	0.	0.09	0.27
16	30	4.81	4.81	294.	0.	0.04	0.12	4.61	4.61	776.	0.	0.11	0.33
17	30	4.81	4.81	536.	0.	0.07	0.22	4.61	4.61	741.	0.	0.11	0.31
18	30	4.81	4.81	438.	0.	0.06	0.18	4.61	4.61	1111.	0.	0.16	0.47
19	30	4.81	4.81	0.	0.	0.00	0.00	4.61	4.61	447.	0.	0.06	0.19

		SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
1	30	4.81	4.81	517.	0.	0.07	0.21	4.61	4.61	745.	0.	0.11	0.31
2	30	4.81	4.81	1269.	0.	0.18	0.51	4.61	4.61	1303.	0.	0.19	0.55
3	30	4.81	4.81	978.	0.	0.14	0.39	4.61	4.61	1012.	0.	0.14	0.43
4	30	4.81	4.81	753.	0.	0.11	0.30	4.61	4.61	1107.	0.	0.16	0.47
5	30	4.81	4.81	1269.	0.	0.18	0.51	4.61	4.61	724.	0.	0.10	0.30
6	30	4.81	4.81	1192.	0.	0.17	0.48	4.61	4.61	691.	0.	0.10	0.29



7	30	4.81	4.81	518.	0.	0.07	0.21	4.61	4.61	1014.	0.	0.14	0.43
8	30	4.81	4.81	303.	0.	0.04	0.12	4.61	4.61	448.	0.	0.06	0.19
9	30	4.81	4.81	583.	0.	0.08	0.24	4.61	4.61	537.	0.	0.08	0.23
10	30	4.81	4.81	791.	0.	0.11	0.32	4.61	4.61	0.	0.	0.00	0.00
11	30	4.81	4.81	721.	0.	0.10	0.29	4.61	4.61	160.	0.	0.02	0.07
12	30	4.81	4.81	0.	0.	0.00	0.00	4.61	4.61	0.	0.	0.00	0.00
13	30	4.81	4.81	620.	0.	0.09	0.25	4.61	4.61	698.	0.	0.10	0.29
14	30	4.81	4.81	369.	0.	0.05	0.15	4.61	4.61	447.	0.	0.06	0.19
15	30	4.81	4.81	729.	0.	0.10	0.29	4.61	4.61	663.	0.	0.09	0.28
16	30	4.81	4.81	739.	0.	0.10	0.30	4.61	4.61	551.	0.	0.08	0.23
17	30	4.81	4.81	985.	0.	0.14	0.40	4.61	4.61	1284.	0.	0.18	0.54
18	30	4.81	4.81	909.	0.	0.13	0.37	4.61	4.61	1563.	0.	0.22	0.66
19	30	4.81	4.81	662.	0.	0.09	0.27	4.61	4.61	1864.	0.	0.27	0.78

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	$\tau_x$	$\tau_y$	$\tau_t$	GUSCI	$\tau_x$	$\tau_y$	$\tau_t$	GUSCI	$\tau_x$	$\tau_y$	$\tau_t$
1	0.1	0.1	0.2	2	0.1	0.3	0.3	3	0.3	0.6	0.7
4	0.5	0.2	0.6	5	0.6	0.4	0.7	6	0.6	0.3	0.7
7	0.2	0.4	0.4	8	0.5	0.1	0.6	9	0.0	0.2	0.2
10	0.1	0.1	0.2	11	0.1	0.5	0.5	12	0.0	0.6	0.6
13	0.1	0.9	0.9	14	0.2	1.3	1.3	15	0.1	0.7	0.7
16	0.6	1.7	1.8	17	0.4	2.7	2.7	18	1.4	5.9	6.0
19	0.5	2.5	2.6								

MACROGUSCIO platea

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	- forze	: [daN]
momenti	: [daNcm/cm]	- tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	- angoli	: [gradi]
armature	: [cm2]		

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
1	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
2	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
3	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
4	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
5	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
6	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
7	4.81	4.81	0.	0.	0.00	0.	0.000	26	0.	0.35	22.	0.000	37	0.	0.50	31.	0.000
8	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
9	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
10	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
11	4.81	4.81	204	0.	2.74	169.	0.000	196	0.	2.64	163.	0.000	194	0.	2.61	161.	0.000
12	4.81	4.81	128	0.	1.72	106.	0.000	117	0.	1.57	97.	0.000	117	0.	1.58	97.	0.000
13	4.81	4.81	16	0.	0.21	13.	0.000	50	0.	0.67	41.	0.000	59	0.	0.79	49.	0.000
14	4.81	4.81	6	0.	0.09	5.	0.000	33	0.	0.45	28.	0.000	40	0.	0.54	33.	0.000
15	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
16	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
17	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
18	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
19	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
1	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
2	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
3	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
4	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
5	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000

6	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
7	4.61	4.61	104	0.	1.43	90.	0.000	109	0.	1.50	94.	0.000	109	0.	1.50	94.	0.000
8	4.61	4.61	0.	0.	0.00	0.	0.000	47	0.	0.64	40.	0.000	53	0.	0.72	46.	0.000
9	4.61	4.61	47	0.	0.65	41.	0.000	23	0.	0.32	20.	0.000	16	0.	0.22	14.	0.000
10	4.61	4.61	55	0.	0.76	48.	0.000	46	0.	0.64	40.	0.000	43	0.	0.59	37.	0.000
11	4.61	4.61	283	0.	3.89	244.	0.000	249	0.	3.42	215.	0.000	239	0.	3.29	207.	0.000
12	4.61	4.61	249	0.	3.42	215.	0.000	228	0.	3.14	197.	0.000	222	0.	3.05	192.	0.000
13	4.61	4.61	215	0.	2.96	186.	0.000	170	0.	2.34	147.	0.000	157	0.	2.16	136.	0.000
14	4.61	4.61	201	0.	2.76	173.	0.000	175	0.	2.40	151.	0.000	166	0.	2.28	144.	0.000
15	4.61	4.61	74	0.	1.01	64.	0.000	36	0.	0.50	31.	0.000	27	0.	0.37	23.	0.000
16	4.61	4.61	97	0.	1.34	84.	0.000	69	0.	0.95	60.	0.000	63	0.	0.86	54.	0.000
17	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
18	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
19	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
1	4.81	4.81	190	0.	2.57	158.	0.000	163	0.	2.19	135.	0.000	154	0.	2.07	128.	0.000
2	4.81	4.81	257	0.	3.46	213.	0.000	181	0.	2.43	150.	0.000	163	0.	2.19	135.	0.000
3	4.81	4.81	311	0.	4.18	257.	0.000	235	0.	3.17	195.	0.000	212	0.	2.86	176.	0.000
4	4.81	4.81	275	0.	3.70	228.	0.000	180	0.	2.43	149.	0.000	183	0.	2.47	152.	0.000
5	4.81	4.81	414	0.	5.57	343.	0.000	295	0.	3.97	244.	0.000	259	0.	3.49	215.	0.000
6	4.81	4.81	396	0.	5.33	328.	0.000	329	0.	4.43	273.	0.000	308	0.	4.15	256.	0.000
7	4.81	4.81	122	0.	1.64	101.	0.000	79	0.	1.06	65.	0.000	68	0.	0.92	57.	0.000
8	4.81	4.81	95	0.	1.28	79.	0.000	26	0.	0.35	22.	0.000	29	0.	0.38	24.	0.000
9	4.81	4.81	247	0.	3.33	205.	0.000	206	0.	2.77	171.	0.000	193	0.	2.60	160.	0.000
10	4.81	4.81	272	0.	3.67	226.	0.000	228	0.	3.07	189.	0.000	216	0.	2.90	179.	0.000
11	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
12	4.81	4.81	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
13	4.81	4.81	102	0.	1.37	84.	0.000	59	0.	0.80	49.	0.000	47	0.	0.64	39.	0.000
14	4.81	4.81	70	0.	0.95	58.	0.000	36	0.	0.48	30.	0.000	25	0.	0.34	21.	0.000
15	4.81	4.81	234	0.	3.15	194.	0.000	163	0.	2.19	135.	0.000	143	0.	1.93	118.	0.000
16	4.81	4.81	257	0.	3.46	213.	0.000	182	0.	2.45	151.	0.000	161	0.	2.16	133.	0.000
17	4.81	4.81	224	0.	3.01	185.	0.000	142	0.	1.91	117.	0.000	119	0.	1.61	99.	0.000
18	4.81	4.81	248	0.	3.34	205.	0.000	156	0.	2.10	129.	0.000	131	0.	1.76	108.	0.000
19	4.81	4.81	129	0.	1.74	107.	0.000	61	0.	0.83	51.	0.000	44	0.	0.59	36.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
1	4.61	4.61	205	0.	2.81	177.	0.000	130	0.	1.79	113.	0.000	116	0.	1.59	100.	0.000
2	4.61	4.61	181	0.	2.49	156.	0.000	77	0.	1.05	66.	0.000	66	0.	0.91	57.	0.000
3	4.61	4.61	228	0.	3.14	197.	0.000	162	0.	2.23	140.	0.000	146	0.	2.00	126.	0.000
4	4.61	4.61	168	0.	2.31	145.	0.000	30	0.	0.41	26.	0.000	35	0.	0.48	30.	0.000
5	4.61	4.61	187	0.	2.57	161.	0.000	133	0.	1.82	115.	0.000	119	0.	1.63	103.	0.000
6	4.61	4.61	116	0.	1.60	100.	0.000	75	0.	1.03	65.	0.000	76	0.	1.05	66.	0.000
7	4.61	4.61	182	0.	2.50	157.	0.000	97	0.	1.33	84.	0.000	76	0.	1.05	66.	0.000
8	4.61	4.61	95	0.	1.30	82.	0.000	48	0.	0.66	42.	0.000	59	0.	0.81	51.	0.000
9	4.61	4.61	58	0.	0.79	50.	0.000	46	0.	0.63	40.	0.000	45	0.	0.62	39.	0.000
10	4.61	4.61	5	0.	0.06	4.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
11	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
12	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
13	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
14	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
15	4.61	4.61	48	0.	0.66	41.	0.000	16	0.	0.22	14.	0.000	10	0.	0.14	9.	0.000
16	4.61	4.61	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000	0.	0.	0.00	0.	0.000
17	4.61	4.61	377	0.	5.19	326.	0.000	289	0.	3.98	250.	0.000	271	0.	3.73	234.	0.000
18	4.61	4.61	423	0.	5.82	366.	0.000	295	0.	4.06	255.	0.000	264	0.	3.63	228.	0.000
19	4.61	4.61	926	0.	12.73	800.	0.000	754	0.	10.36	651.	0.000	708	0.	9.74	612.	0.000

MACROGUSCIO scala\_a1

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille

rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

INFERIORE ORIZZONTALE								INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
332	15	2.56	2.56	0.	-13.	0.01	0.25	7.95	7.95	1471.	50.	0.55	1.04

  

SUPERIORE ORIZZONTALE								SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
332	15	2.56	2.56	0.	-13.	0.08	0.43	7.95	7.95	0.	43.	0.07	0.57

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
332	0.1	0.5	0.4								

MACROGUSCIO scala\_a1

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkr = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

COMBINAZIONE RARA								COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
332	2.56	2.56	0.	-2	0.10	-1.	0.000	0.	-1	0.08	-1.	0.000	0.	-9	0.57	-9.	0.000

ARMATURA INFERIORE VERTICALE

COMBINAZIONE RARA								COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
332	7.95	7.95	223	-26	9.01	116.	0.000	204	-26	8.18	92.	0.000	108	-26	4.43	1.	0.000

ARMATURA SUPERIORE ORIZZONTALE

COMBINAZIONE RARA								COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
332	2.56	2.56	32	-2	2.06	79.	0.000	27	-1	1.74	68.	0.000	6	-9	0.41	-10.	0.000

ARMATURA SUPERIORE VERTICALE

COMBINAZIONE RARA								COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
332	7.95	7.95	0.	-26	1.48	-22.	0.000	0.	-26	1.50	-23.	0.000	0.	-26	1.50	-22.	0.000

MACROGUSCIO scala\_a2

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
349	15	2.79	2.79	951.	13.	0.65	1.64	7.81	7.81	2961.	-18.	1.29	1.76
350	15	5.59	5.59	1032.	54.	0.96	1.82	7.81	7.81	362.	29.	0.08	0.33
351	15	2.79	2.79	720.	37.	0.60	1.76	7.81	7.81	3006.	22.	1.81	3.96

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
349	15	2.79	2.79	678.	13.	0.46	1.31	7.81	7.81	998.	-50.	0.93	1.26
350	15	8.79	5.59	1285.	54.	1.16	1.57	7.81	7.81	79.	46.	0.03	0.25
351	15	2.79	2.79	136.	37.	0.00	0.66	7.81	7.81	115.	42.	0.92	1.41

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
349	0.9	1.9	1.6	350	2.4	0.3	1.5	351	1.0	2.5	1.9

MACROGUSCIO scala\_a2

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	sc	sf	wkR	Mom	Nor	sc	sf	wkF	Mom	Nor	sc	sf	wkP
349	2.79	2.79	125	16	7.89	713.	0.000	102	13	6.40	589.	0.000	38	12	1.11	362.	0.000
350	5.59	6.39	0.	25	0.00	225.	0.000	0.	21	0.00	190.	0.000	0.	2	0.00	18.	0.000
351	2.79	2.79	247	19	16.21	1162.	0.000	214	11	14.15	914.	0.000	129	9	8.49	590.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	sc	sf	wkR	Mom	Nor	sc	sf	wkF	Mom	Nor	sc	sf	wkP
349	7.81	7.81	407	12	16.59	579.	0.011	373	14	15.15	551.	0.003	248	14	9.93	399.	0.000
350	7.81	7.81	348	-11	14.47	356.	0.000	318	-8	13.22	341.	0.000	104	-4	4.34	100.	0.000
351	7.81	7.81	435	-3	18.04	514.	0.010	404	-6	16.78	457.	0.002	280	-7	11.64	297.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	sc	sf	wkR	Mom	Nor	sc	sf	wkF	Mom	Nor	sc	sf	wkP

349	2.79	2.79	0.	16	0.00	281.	0.000	0.	13	0.00	236.	0.000	0.	12	0.00	215.	0.000
350	6.39	5.59	482	25	21.39	921.	0.043	391	21	17.32	754.	0.014	121	2	5.50	196.	0.000
351	2.79	2.79	0.	19	0.00	334.	0.000	0.	11	0.00	205.	0.000	0.	9	0.00	159.	0.000

ARMATURA SUPERIORE VERTICALE

		COMBINAZIONE RARA						COMBINAZIONE FREQUENTE				COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
349	7.81 7.81	0.	12	0.00	77.	0.000	0.	14	0.00	89.	0.000	0.	14	0.00	90.	0.000
350	7.81 7.81	0.	-11	0.63	-9.	0.000	0.	-8	0.43	-6.	0.000	0.	-4	0.25	-4.	0.000
351	7.81 7.81	0.	-3	0.18	-3.	0.000	0.	-6	0.34	-5.	0.000	0.	-7	0.41	-6.	0.000

MACROGUSCIO scala\_a3

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

		INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
372	15	2.58	2.58	127.	141.	0.00	1.56	7.95	7.95	1425.	-45.	0.64	0.78

		SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
372	15	2.58	2.58	160.	141.	0.00	1.63	7.95	7.95	38.	150.	0.48	0.79

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	$\tau_x$	$\tau_y$	$\tau_t$	GUSCI	$\tau_x$	$\tau_y$	$\tau_t$	GUSCI	$\tau_x$	$\tau_y$	$\tau_t$
372	0.2	0.4	0.4								

MACROGUSCIO scala\_a3

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
372	2.58	2.58	0.	-7	0.46	-7.	0.000	0.	-7	0.45	-7.	0.000	17	3	1.07	125.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
372	7.95	7.95	225	11	8.95	347.	0.000	150	18	5.47	303.	0.000	79	22	1.69	244.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
372	2.58	2.58	19	-7	0.01	-11.	0.000	18	-7	0.02	-11.	0.000	0.	3	0.00	58.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
372	7.95	7.95	0.	11	0.00	72.	0.000	0.	18	0.00	115.	0.000	0.	22	0.00	137.	0.000

MACROGUSCIO scala\_a4

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE					INFERIORE VERTICALE						
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
410	15	2.56	2.56	161.	82.	0.00	1.65	7.95	7.95	1489.	69.	0.53	1.10

GUSCI	spess	SUPERIORE ORIZZONTALE					SUPERIORE VERTICALE						
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
410	15	2.56	2.56	0.	82.	0.00	1.61	7.95	7.95	202.	77.	0.00	0.66

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
410	0.1	0.4	0.4								

MACROGUSCIO scala\_a4

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)

21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
410	2.56	2.56	0.	-7	0.46	-7.	0.000	0.	-5	0.33	-5.	0.000	3	-1	0.16	2.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
410	7.95	7.95	195	-18	7.97	127.	0.000	180	-20	7.27	96.	0.000	96	-19	3.75	16.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
410	2.56	2.56	29	-7	1.31	0.	0.000	25	-5	1.15	6.	0.000	0.	-1	0.04	-1.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
410	7.95	7.95	0.	-18	1.02	-15.	0.000	0.	-20	1.16	-17.	0.000	0.	-19	1.12	-17.	0.000

MACROGUSCIO scala\_a5

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE				INFERIORE VERTICALE							
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
425	15	2.79	2.79	1119.	19.	1.35	5.26	7.81	7.81	3130.	-16.	1.37	1.90
426	15	5.59	5.59	948.	33.	0.86	1.78	7.81	7.81	711.	30.	0.24	0.53
427	15	2.79	2.79	96.	27.	0.67	1.51	7.81	7.81	3019.	48.	2.88	8.40

GUSCI	spess	SUPERIORE ORIZZONTALE				SUPERIORE VERTICALE							
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
425	15	2.79	2.79	765.	19.	0.49	1.40	7.81	7.81	1158.	-37.	1.00	1.36
426	15	8.79	5.59	1184.	33.	1.09	1.60	7.81	7.81	255.	37.	0.09	0.33
427	15	2.79	2.79	98.	27.	0.03	0.53	7.81	7.81	71.	22.	0.88	1.46

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	τx	τy	τt	GUSCI	τx	τy	τt	GUSCI	τx	τy	τt
425	1.0	2.3	1.9	426	2.2	0.2	1.4	427	1.0	2.5	1.9

MACROGUSCIO scala\_a5

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:  
 lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 15 Rara (RARA)  
 16 Rara VentoX (RARA)  
 17 Rara VentoY (RARA)  
 18 Frequente (FREQUENTE)  
 19 Frequente VentoX (FREQUENTE)  
 20 Frequente VentoY (FREQUENTE)  
 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkr = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
425	2.79	2.79	72	11	4.41	451.	0.000	8	12	0.00	247.	0.000	10	9	0.00	197.	0.000
426	5.59	6.39	0.	22	0.00	196.	0.000	0.	18	0.00	162.	0.000	0.	1	0.00	7.	0.000
427	2.79	2.79	175	7	11.58	703.	0.000	148	6	9.80	592.	0.000	77	3	5.06	307.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
425	7.81	7.81	339	18	13.62	535.	0.000	326	18	13.04	519.	0.000	190	16	7.36	344.	0.000
426	7.81	7.81	309	-7	12.85	336.	0.000	287	-5	11.92	322.	0.000	96	-1	3.98	114.	0.000
427	7.81	7.81	398	-13	16.54	404.	0.000	373	-14	15.51	367.	0.000	222	-12	9.21	192.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
425	2.79	2.79	0.	11	0.00	197.	0.000	34	12	0.38	347.	0.000	12	9	0.00	204.	0.000
426	6.39	5.59	534	22	23.89	971.	0.052	444	18	19.88	807.	0.027	199	1	9.06	301.	0.000
427	2.79	2.79	0.	7	0.00	128.	0.000	0.	6	0.00	105.	0.000	0.	3	0.00	55.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
425	7.81	7.81	0.	18	0.00	113.	0.000	0.	18	0.00	114.	0.000	0.	16	0.00	105.	0.000
426	7.81	7.81	0.	-7	0.38	-6.	0.000	0.	-5	0.26	-4.	0.000	0.	-1	0.04	-1.	0.000
427	7.81	7.81	0.	-13	0.74	-11.	0.000	0.	-14	0.80	-12.	0.000	0.	-12	0.72	-11.	0.000

MACROGUSCIO scala\_a6

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:  
 lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 1 SLU  
 2 SLU VENTOX  
 3 SLU VENTOY  
 6 SLU con SISMAX PRINC  
 7 SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2



coefficiente sicurezza c1s : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

INFERIORE ORIZZONTALE								INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
447	15	2.58	2.58	141.	80.	0.00	0.99	7.95	7.95	1120.	93.	0.30	0.96

  

SUPERIORE ORIZZONTALE								SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
447	15	2.58	2.58	149.	80.	0.00	1.01	7.95	7.95	437.	112.	0.50	1.19

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
447	0.2	0.4	0.4								

MACROGUSCIO scala\_a6

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
447	2.58	2.58	23	-8	1.08	-2.	0.000	22	-6	1.01	0.	0.000	0.	5	0.00	96.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
447	7.95	7.95	0.	19	0.00	121.	0.000	0.	24	0.00	153.	0.000	0.	27	0.00	172.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
447	2.58	2.58	0.	-8	0.50	-8.	0.000	0.	-6	0.38	-6.	0.000	19	5	0.92	175.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
447	7.95	7.95	212	19	8.11	384.	0.000	153	24	5.19	348.	0.000	73	27	0.00	275.	0.000

MACROGUSCIO scala\_b1

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU

- 2 SLU VENTOX
- 3 SLU VENTOY
- 6 SLU con SISMAX PRINC
- 7 SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
315	15	2.61	2.61	98.	56.	0.00	0.68	8.42	8.42	70.	114.	0.00	0.36
324	15	2.61	2.61	107.	50.	0.00	0.64	8.42	8.42	39.	152.	0.00	0.45
334	15	2.61	2.61	153.	137.	0.00	1.56	8.42	8.42	0.	122.	0.00	0.34

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
315	15	2.61	2.61	55.	56.	0.00	0.61	8.42	8.42	70.	114.	0.00	0.36
324	15	2.61	2.61	0.	50.	0.00	0.46	8.42	8.42	4.	152.	0.00	0.43
334	15	2.61	2.61	0.	137.	0.00	1.25	8.42	8.42	135.	122.	0.00	0.42

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
315	0.4	0.2	0.4	324	0.2	0.2	0.2	334	0.1	0.2	0.3

MACROGUSCIO scala\_b10

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

- | Nome | Descrizione          |
|------|----------------------|
| 1    | SLU                  |
| 2    | SLU VENTOX           |
| 3    | SLU VENTOY           |
| 6    | SLU con SISMAX PRINC |
| 7    | SLU con SISMAX PRINC |

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
451	15	2.71	2.71	44.	84.	0.00	0.82	8.37	8.37	87.	145.	0.00	0.46
458	15	2.71	2.71	0.	65.	0.00	0.57	8.37	8.37	204.	78.	0.00	0.34
462	15	2.71	2.71	0.	39.	0.00	0.34	8.37	8.37	38.	21.	0.00	0.08

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
451	15	2.71	2.71	226.	84.	0.00	1.13	8.37	8.37	217.	145.	0.00	0.54
458	15	2.71	2.71	231.	65.	0.00	0.96	8.37	8.37	245.	78.	0.00	0.36
462	15	2.71	2.71	151.	39.	0.00	0.60	8.37	8.37	92.	21.	0.00	0.11

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
451	0.1	0.1	0.2	458	0.2	0.4	0.4	462	0.3	0.5	0.6

MACROGUSCIO scala\_b10

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:  
 lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 15 Rara (RARA)  
 16 Rara VentoX (RARA)  
 17 Rara VentoY (RARA)  
 18 Frequente (FREQUENTE)  
 19 Frequente VentoX (FREQUENTE)  
 20 Frequente VentoY (FREQUENTE)  
 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
451	2.71	2.71	0.	17	0.00	318.	0.000	0.	15	0.00	270.	0.000	0.	14	0.00	258.	0.000
458	2.71	2.71	0.	18	0.00	340.	0.000	0.	16	0.00	289.	0.000	0.	15	0.00	275.	0.000
462	2.71	2.71	0.	14	0.00	264.	0.000	0.	12	0.00	223.	0.000	0.	11	0.00	210.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
451	8.37	8.37	14	22	0.00	150.	0.000	8	16	0.00	108.	0.000	7	15	0.00	97.	0.000
458	8.37	8.37	0.	26	0.00	156.	0.000	0.	20	0.00	119.	0.000	0.	18	0.00	110.	0.000
462	8.37	8.37	26	14	0.00	119.	0.000	22	11	0.00	97.	0.000	20	10	0.00	89.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
451	2.71	2.71	97	17	5.72	675.	0.000	82	15	4.82	571.	0.000	77	14	4.52	543.	0.000
458	2.71	2.71	106	18	6.27	728.	0.000	94	16	5.70	633.	0.000	90	15	5.46	605.	0.000
462	2.71	2.71	69	14	3.80	523.	0.000	59	12	3.29	444.	0.000	56	11	3.13	420.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
451	8.37	8.37	68	22	0.84	221.	0.000	53	16	0.82	166.	0.000	50	15	0.88	152.	0.000
458	8.37	8.37	90	26	1.64	273.	0.000	69	20	1.28	209.	0.000	64	18	1.23	193.	0.000
462	8.37	8.37	66	14	1.85	168.	0.000	41	11	0.82	121.	0.000	35	10	0.57	107.	0.000

MACROGUSCIO scala\_b1

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:  
 lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 15 Rara (RARA)  
 16 Rara VentoX (RARA)  
 17 Rara VentoY (RARA)  
 18 Frequente (FREQUENTE)  
 19 Frequente VentoX (FREQUENTE)  
 20 Frequente VentoY (FREQUENTE)  
 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " " " = 0.2 mm

wkP = '' '' '' '' quasi permanente (mm) - '' '' = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
315	2.61	2.61	7	13	0.00	280.	0.000	4	13	0.00	276.	0.000	3	13	0.00	266.	0.000
324	2.61	2.61	0.	14	0.00	262.	0.000	0.	14	0.00	263.	0.000	0.	13	0.00	255.	0.000
334	2.61	2.61	103	62	0.00	1629.	0.000	80	45	0.00	1208.	0.000	72	40	0.00	1072.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
315	8.42	8.42	0.	2	0.00	12.	0.000	0.	8	0.00	48.	0.000	0.	9	0.00	51.	0.000
324	8.42	8.42	0.	13	0.00	80.	0.000	0.	19	0.00	114.	0.000	0.	19	0.00	114.	0.000
334	8.42	8.42	10	32	0.00	205.	0.000	4	19	0.00	115.	0.000	5	13	0.00	86.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
315	2.61	2.61	14	13	0.00	311.	0.000	7	13	0.00	289.	0.000	5	13	0.00	272.	0.000
324	2.61	2.61	43	14	1.30	441.	0.000	30	14	0.00	392.	0.000	27	13	0.00	370.	0.000
334	2.61	2.61	0.	62	0.00	1191.	0.000	0.	45	0.00	867.	0.000	0.	40	0.00	767.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
315	8.42	8.42	184	2	7.30	222.	0.000	134	8	5.15	204.	0.000	118	9	4.47	188.	0.000
324	8.42	8.42	73	13	2.23	169.	0.000	59	19	0.73	191.	0.000	54	19	0.20	185.	0.000
334	8.42	8.42	19	32	0.00	217.	0.000	13	19	0.00	127.	0.000	9	13	0.00	91.	0.000

MACROGUSCIO scala\_b2

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
341	15	8.37	20.69	832.	522.	1.53	7.22	8.42	8.42	364.	48.	0.03	0.34
342	15	8.37	8.37	633.	73.	0.10	0.57	8.42	8.42	0.	19.	0.00	0.05
343	15	8.37	8.37	150.	37.	0.00	0.19	8.42	8.42	195.	75.	0.00	0.32

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
341	15	20.69	8.37	1312.	522.	0.00	0.92	8.42	8.42	0.	48.	0.00	0.14
342	15	8.37	8.37	0.	73.	0.00	0.21	8.42	8.42	612.	19.	0.21	0.40
343	15	8.37	8.37	215.	37.	0.00	0.23	8.42	8.42	55.	75.	0.00	0.24

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
341	14.7	6.5	16.1	342	0.4	0.1	0.4	343	0.1	0.1	0.2

MACROGUSCIO scala\_b2

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 15 Rara (RARA)  
 16 Rara VentoX (RARA)  
 17 Rara VentoY (RARA)  
 18 Frequente (FREQUENTE)  
 19 Frequente VentoX (FREQUENTE)  
 20 Frequente VentoY (FREQUENTE)  
 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Nor	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
341	8.37	20.69	152	-44	5.16	-4.	0.000	197	-34	6.37	46.	0.000	185	-29	6.06	55.	0.000
342	8.37	8.37	0.	4	0.00	27.	0.000	0.	6	0.00	34.	0.000	0.	6	0.00	38.	0.000
343	8.37	8.37	0.	37	0.00	222.	0.000	0.	31	0.00	184.	0.000	0.	28	0.00	169.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Nor	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
341	8.42	8.42	18	6	0.20	60.	0.000	0.	7	0.00	41.	0.000	0.	5	0.00	31.	0.000
342	8.42	8.42	0.	-5	0.29	-4.	0.000	0.	-4	0.20	-3.	0.000	0.	-4	0.20	-3.	0.000
343	8.42	8.42	58	6	2.10	106.	0.000	28	8	0.54	83.	0.000	24	6	0.57	65.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Nor	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
341	20.69	8.37	267	-44	9.43	40.	0.000	255	-34	8.78	52.	0.000	242	-29	8.19	55.	0.000
342	8.37	8.37	118	4	4.64	164.	0.000	88	6	3.35	137.	0.000	78	6	2.93	130.	0.000
343	8.37	8.37	150	37	3.63	412.	0.000	112	31	2.30	328.	0.000	98	28	1.84	296.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Nor	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
341	8.42	8.42	1	6	0.00	37.	0.000	3	7	0.00	46.	0.000	6	5	0.00	39.	0.000
342	8.42	8.42	77	-5	3.11	59.	0.000	59	-4	2.39	47.	0.000	48	-4	1.94	35.	0.000
343	8.42	8.42	36	6	1.13	81.	0.000	39	8	1.11	95.	0.000	35	6	1.12	78.	0.000

MACROGUSCIO scala\_b3

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 1 SLU  
 2 SLU VENTOX  
 3 SLU VENTYOY  
 6 SLU con SISMAX PRINC  
 7 SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5

coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

		INFERIORE ORIZZONTALE							INFERIORE VERTICALE						
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF		
346	15	5.26	5.26	437.	277.	0.00	1.69	8.37	8.37	380.	237.	0.00	0.90		
354	15	5.26	5.26	333.	146.	0.00	1.38	8.37	8.37	0.	414.	0.00	1.18		
363	15	5.26	5.26	0.	299.	0.00	1.36	8.37	8.37	8.	277.	0.00	0.79		

  

		SUPERIORE ORIZZONTALE							SUPERIORE VERTICALE						
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF		
346	15	5.26	5.26	367.	277.	0.00	1.62	8.37	8.37	537.	237.	0.00	0.99		
354	15	5.26	5.26	318.	146.	0.00	1.26	8.37	8.37	498.	414.	0.00	1.64		
363	15	5.26	5.26	284.	299.	0.00	1.64	8.37	8.37	102.	277.	0.00	0.85		

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
346	0.1	0.2	0.2	354	0.2	0.1	0.2	363	0.2	0.1	0.3

MACROGUSCIO scala\_b3

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 15 Rara (RARA)  
 16 Rara VentoX (RARA)  
 17 Rara VentoY (RARA)  
 18 Frequente (FREQUENTE)  
 19 Frequente VentoX (FREQUENTE)  
 20 Frequente VentoY (FREQUENTE)  
 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
346	5.26	5.26	13	10	0.00	120.	0.000	1	8	0.00	83.	0.000	0.	5	0.00	46.	0.000
354	5.26	5.26	0.	-1	0.06	-1.	0.000	0.	1	0.00	12.	0.000	0.	-1	0.09	-1.	0.000
363	5.26	5.26	0.	17	0.00	157.	0.000	0.	-4	0.24	-4.	0.000	0.	-3	0.17	-3.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
346	8.37	8.37	52	27	0.00	228.	0.000	38	13	0.30	130.	0.000	33	8	0.79	90.	0.000
354	8.37	8.37	46	-2	1.85	39.	0.000	35	-8	1.35	4.	0.000	19	-14	1.25	-8.	0.000
363	8.37	8.37	16	0.	0.64	18.	0.000	14	-15	1.14	-10.	0.000	13	-12	1.01	-8.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
346	5.26	5.26	90	10	4.18	260.	0.000	69	8	3.13	209.	0.000	63	5	3.00	160.	0.000
354	5.26	5.26	90	-1	4.43	149.	0.000	72	1	3.55	140.	0.000	64	-1	3.14	99.	0.000
363	5.26	5.26	137	17	6.24	413.	0.000	100	-4	4.91	140.	0.000	93	-3	4.60	138.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA		COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE									
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
346	8.37	8.37	64	27	0.00	245.	0.000	40	13	0.45	132.	0.000	32	8	0.75	89.	0.000
354	8.37	8.37	0.	-2	0.13	-2.	0.000	0.	-8	0.44	-7.	0.000	4	-14	0.71	-13.	0.000
363	8.37	8.37	29	0.	1.18	34.	0.000	16	-15	0.47	-16.	0.000	13	-12	0.41	-13.	0.000

MACROGUSCIO scala\_b4

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:  
 lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTYOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

INFERIORE ORIZZONTALE								INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
373	15	8.37	8.37	891.	-52.	0.41	0.44	8.37	8.37	778.	69.	0.17	0.64

  

SUPERIORE ORIZZONTALE								SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
373	15	8.37	8.37	826.	-52.	0.38	0.51	8.37	8.37	0.	58.	0.29	0.70

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
373	1.4	1.1	1.2								

MACROGUSCIO scala\_b4

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:  
 lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

COMBINAZIONE RARA								COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
373	8.37	8.37	39	-9	1.64	1.	0.000	36	-9	1.45	0.	0.000	0.	-13	0.72	-11.	0.000

ARMATURA INFERIORE VERTICALE

COMBINAZIONE RARA								COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
373	8.37	8.37	24	8	0.17	82.	0.000	17	9	0.00	77.	0.000	39	5	1.39	76.	0.000

ARMATURA SUPERIORE ORIZZONTALE

COMBINAZIONE RARA								COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
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GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
373	8.37	8.37	24	-9	0.03	-12.	0.000	40	-9	1.54	5.	0.000	19	-13	0.29	-15.	0.000

ARMATURA SUPERIORE VERTICALE

COMBINAZIONE RARA								COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
373	8.37	8.37	82	8	3.00	147.	0.000	66	9	2.28	133.	0.000	93	5	3.59	137.	0.000

MACROGUSCIO scala\_b5

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

INFERIORE ORIZZONTALE								INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
376	15	2.73	2.73	21.	186.	0.00	1.66	8.30	8.30	89.	80.	0.00	0.28
383	15	2.73	2.73	217.	91.	0.00	1.17	8.30	8.30	0.	69.	0.00	0.20
387	15	2.73	2.73	0.	27.	0.00	0.24	8.30	8.30	0.	39.	0.00	0.11

SUPERIORE ORIZZONTALE								SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
376	15	2.73	2.73	130.	186.	0.00	3.13	8.30	8.30	228.	80.	0.00	0.36
383	15	2.73	2.73	10.	91.	0.00	0.81	8.30	8.30	281.	69.	0.00	0.36
387	15	2.73	2.73	99.	27.	0.00	0.40	8.30	8.30	148.	39.	0.00	0.20

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	$\tau_x$	$\tau_y$	$\tau_t$	GUSCI	$\tau_x$	$\tau_y$	$\tau_t$	GUSCI	$\tau_x$	$\tau_y$	$\tau_t$
376	0.2	0.1	0.2	383	0.4	0.2	0.4	387	0.4	0.2	0.5

MACROGUSCIO scala\_b5

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = apertura caratteristica per combinazione frequente (mm) - apertura max = 0.2 mm



wkP = '' '' '' '' quasi permanente (mm) - '' '' = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
376	2.73	2.73	9	10	0.00	214.	0.000	7	4	0.00	98.	0.000	7	2	0.25	64.	0.000
383	2.73	2.73	0.	15	0.00	266.	0.000	0.	11	0.00	194.	0.000	0.	9	0.00	166.	0.000
387	2.73	2.73	3	0.	0.20	20.	0.000	7	0.	0.42	17.	0.000	7	-1	0.41	11.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
376	8.30	8.30	0.	14	0.00	86.	0.000	0.	14	0.00	87.	0.000	0.	14	0.00	84.	0.000
383	8.30	8.30	0.	16	0.00	96.	0.000	0.	16	0.00	93.	0.000	0.	15	0.00	90.	0.000
387	8.30	8.30	0.	11	0.00	66.	0.000	0.	10	0.00	61.	0.000	0.	10	0.00	58.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
376	2.73	2.73	58	10	3.50	391.	0.000	42	4	2.78	217.	0.000	39	2	2.60	168.	0.000
383	2.73	2.73	54	15	2.34	476.	0.000	35	11	1.23	332.	0.000	30	9	1.04	284.	0.000
387	2.73	2.73	71	0.	4.69	242.	0.000	40	0.	2.66	127.	0.000	33	-1	2.16	96.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
376	8.30	8.30	127	14	4.62	239.	0.000	103	14	3.56	212.	0.000	99	14	3.42	205.	0.000
383	8.30	8.30	148	16	5.40	273.	0.000	126	16	4.46	245.	0.000	123	15	4.38	238.	0.000
387	8.30	8.30	67	11	2.19	148.	0.000	56	10	1.75	131.	0.000	54	10	1.70	125.	0.000

MACROGUSCIO scala\_b6

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAY PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE					INFERIORE VERTICALE						
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
393	15	2.61	2.61	156.	199.	0.76	42.43	8.42	8.42	261.	182.	0.00	0.66
403	15	2.61	2.61	202.	150.	0.00	1.77	8.42	8.42	209.	362.	0.00	1.15
412	15	5.64	5.52	173.	278.	0.00	1.33	8.42	8.42	1.	204.	0.00	0.58

GUSCI	spess	SUPERIORE ORIZZONTALE					SUPERIORE VERTICALE						
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
393	15	2.61	2.61	0.	199.	0.00	1.81	8.42	8.42	0.	182.	0.00	0.51
403	15	2.61	2.61	0.	150.	0.00	1.37	8.42	8.42	0.	362.	0.00	1.02
412	15	5.52	5.64	0.	278.	0.00	1.20	8.42	8.42	46.	204.	0.00	0.60

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	τx	τy	τt	GUSCI	τx	τy	τt	GUSCI	τx	τy	τt
393	0.1	0.0	0.1	403	0.0	0.1	0.1	412	0.1	0.1	0.2

MACROGUSCIO scala\_b6

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 15 Rara (RARA)  
 16 Rara VentoX (RARA)  
 17 Rara VentoY (RARA)  
 18 Frequente (FREQUENTE)  
 19 Frequente VentoX (FREQUENTE)  
 20 Frequente VentoY (FREQUENTE)  
 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wKF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wKP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wKF	Mom	Nor	σc	σf	wKP
393	2.61	2.61	49	84	0.00	1808.	0.000	47	66	0.00	1453.	0.000	45	60	0.00	1331.	0.000
403	2.61	2.61	95	64	0.00	1626.	0.000	72	50	0.00	1258.	0.000	66	45	0.00	1143.	0.000
412	5.64	5.52	103	114	0.00	1214.	0.000	80	88	0.00	936.	0.000	74	79	0.00	848.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wKF	Mom	Nor	σc	σf	wKP
393	8.42	8.42	83	62	0.00	477.	0.000	63	40	0.00	323.	0.000	57	34	0.00	276.	0.000
403	8.42	8.42	52	143	0.00	916.	0.000	38	107	0.00	683.	0.000	34	95	0.00	610.	0.000
412	8.42	8.42	0.	54	0.00	322.	0.000	0.	34	0.00	204.	0.000	0.	28	0.00	167.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wKF	Mom	Nor	σc	σf	wKP
393	2.61	2.61	0.	84	0.00	1599.	0.000	0.	66	0.00	1254.	0.000	0.	60	0.00	1141.	0.000
403	2.61	2.61	0.	64	0.00	1223.	0.000	0.	50	0.00	950.	0.000	0.	45	0.00	862.	0.000
412	5.52	5.64	0.	114	0.00	1033.	0.000	0.	88	0.00	795.	0.000	0.	79	0.00	718.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wKF	Mom	Nor	σc	σf	wKP
393	8.42	8.42	0.	62	0.00	368.	0.000	0.	40	0.00	240.	0.000	0.	34	0.00	200.	0.000
403	8.42	8.42	0.	143	0.00	847.	0.000	0.	107	0.00	634.	0.000	0.	95	0.00	565.	0.000
412	8.42	8.42	41	54	0.00	375.	0.000	29	34	0.00	242.	0.000	25	28	0.00	201.	0.000

MACROGUSCIO scala\_b7

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 1 SLU  
 2 SLU VENTOX  
 3 SLU VENTYOY  
 6 SLU con SISMAX PRINC  
 7 SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5

coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

INFERIORE ORIZZONTALE								INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
420	15	8.37	8.37	273.	73.	0.00	0.43	8.42	8.42	832.	8.	0.33	0.50

  

SUPERIORE ORIZZONTALE								SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
420	15	8.37	8.37	0.	73.	0.24	0.60	8.42	8.42	0.	-2.	0.26	0.39

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
420	0.4	0.6	0.5								

MACROGUSCIO scala\_b7

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 15 Rara (RARA)  
 16 Rara VentoX (RARA)  
 17 Rara VentoY (RARA)  
 18 Frequente (FREQUENTE)  
 19 Frequente VentoX (FREQUENTE)  
 20 Frequente VentoY (FREQUENTE)  
 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
420	8.37	8.37	119	37	1.74	377.	0.000	109	32	1.95	334.	0.000	85	26	1.27	268.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
420	8.42	8.42	162	-8	6.51	137.	0.000	106	-4	4.26	96.	0.000	111	-5	4.49	96.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
420	8.37	8.37	0.	37	0.00	222.	0.000	0.	32	0.00	192.	0.000	9	26	0.00	169.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
420	8.42	8.42	24	-8	0.09	-12.	0.000	0.	-4	0.24	-4.	0.000	15	-5	0.03	-8.	0.000

MACROGUSCIO scala\_b8

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
 1 SLU  
 2 SLU VENTOX

3 SLU VENTOY  
6 SLU con SISMAX PRINC  
7 SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
coefficiente sicurezza acciaio : 1.15  
deformazione ultima acciaio : 67.5 per mille  
deformazione ultima cls : 3.5 per mille  
rapporto rottura/snervamento (k): 1.15  
resistenza cilindrica cls (fck): 207.5 daN/cm2  
coefficiente sicurezza cls : 1.5  
coefficiente riduttivo (alfa): 0.85  
copriferro inferiore (asse armatura): 3 cm  
copriferro superiore (asse armatura): 3 cm  
moltiplicatore sollecitazioni : 1

INFERIORE ORIZZONTALE								INFERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
423	15	2.63	2.63	129.	18.	0.00	0.39	8.37	8.37	79.	102.	0.00	0.33
430	15	2.63	2.63	133.	30.	0.00	0.50	8.37	8.37	126.	113.	0.00	0.39
439	15	2.63	2.63	155.	69.	0.00	0.90	8.37	8.37	71.	122.	0.00	0.39

SUPERIORE ORIZZONTALE								SUPERIORE VERTICALE					
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
423	15	2.63	2.63	37.	18.	0.00	0.23	8.37	8.37	78.	102.	0.00	0.33
430	15	2.63	2.63	0.	30.	0.00	0.29	8.37	8.37	95.	34.	0.00	0.32
439	15	2.63	2.63	139.	69.	0.00	0.87	8.37	8.37	89.	122.	0.00	0.40

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
423	0.1	0.2	0.2	430	0.1	0.1	0.1	439	0.2	0.1	0.2

MACROGUSCIO scala\_b8

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
momenti : [daNcm/cm] - tensioni : [daN/cm2]  
pesi specifici: [daN/cm3] - angoli : [gradi]  
armature : [cm2]

CASI DI CARICO:

Nome Descrizione  
15 Rara (RARA)  
16 Rara VentoX (RARA)  
17 Rara VentoY (RARA)  
18 Frequente (FREQUENTE)  
19 Frequente VentoX (FREQUENTE)  
20 Frequente VentoY (FREQUENTE)  
21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
wkr = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
wkf = " " " " frequente (mm) - " " = 0.2 mm  
wkp = " " " " quasi permanente (mm) - " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkf	Mom	Nor	σc	σf	wkp
423	2.63	2.63	105	17	6.56	708.	0.000	82	14	5.02	565.	0.000	83	11	5.34	520.	0.000
430	2.63	2.63	77	22	3.15	731.	0.000	77	21	3.49	702.	0.000	67	14	3.64	534.	0.000
439	2.63	2.63	109	41	0.00	1234.	0.000	92	34	0.65	1029.	0.000	86	32	0.55	964.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkf	Mom	Nor	σc	σf	wkp
423	8.37	8.37	17	29	0.00	198.	0.000	5	24	0.00	151.	0.000	2	22	0.00	137.	0.000
430	8.37	8.37	0.	36	0.00	213.	0.000	0.	28	0.00	169.	0.000	10	18	0.00	121.	0.000
439	8.37	8.37	34	27	0.00	206.	0.000	20	21	0.00	152.	0.000	17	19	0.00	135.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af	Afc	COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
			Mom	Nor	σc	σf	wkr	Mom	Nor	σc	σf	wkf	Mom	Nor	σc	σf	wkp
423	2.63	2.63	0.	17	0.00	314.	0.000	0.	14	0.00	258.	0.000	0.	11	0.00	213.	0.000
430	2.63	2.63	0.	22	0.00	417.	0.000	0.	21	0.00	392.	0.000	0.	14	0.00	274.	0.000
439	2.63	2.63	0.	41	0.00	771.	0.000	0.	34	0.00	639.	0.000	0.	32	0.00	599.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
423	8.37	8.37	18	29	0.00	198.	0.000	9	24	0.00	157.	0.000	8	22	0.00	144.	0.000
430	8.37	8.37	19	36	0.00	239.	0.000	18	28	0.00	193.	0.000	0.	18	0.00	108.	0.000
439	8.37	8.37	22	27	0.00	191.	0.000	15	21	0.00	145.	0.000	14	19	0.00	131.	0.000

MACROGUSCIO scala\_b9

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTYO
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
448	15	8.37	8.37	925.	-41.	0.41	0.50	8.37	8.37	885.	51.	0.26	0.65

  

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
448	15	8.37	8.37	785.	-41.	0.35	0.61	8.37	8.37	0.	51.	0.36	0.58

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
448	1.5	1.4	1.3								

MACROGUSCIO scala\_b9

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici : [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

	COMBINAZIONE RARA				COMBINAZIONE FREQUENTE				COMBINAZIONE QUASI PERMANENTE			
	Af	Afc	Mom	Nor	Af	Afc	Mom	Nor	Af	Afc	Mom	Nor

GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
448	8.37	8.37	51	-6	2.05	27.	0.000	33	-4	1.32	17.	0.000	0.	-5	0.31	-5.	0.000

ARMATURA INFERIORE VERTICALE

			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
448	8.37	8.37	0.	28	0.00	166.	0.000	0.	23	0.00	139.	0.000	20	21	0.00	153.	0.000

ARMATURA SUPERIORE ORIZZONTALE

			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
448	8.37	8.37	0.	-6	0.33	-5.	0.000	0.	-4	0.21	-3.	0.000	10	-5	0.07	-7.	0.000

ARMATURA SUPERIORE VERTICALE

			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wkR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
448	8.37	8.37	38	28	0.00	216.	0.000	39	23	0.00	191.	0.000	34	21	0.00	172.	0.000

MACROGUSCIO soletta

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	-	forze	: [daN]
momenti	: [daNcm/cm]	-	tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	-	angoli	: [gradi]
armature	: [cm2]			

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	207.5	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	3	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

								INFERIORE ORIZZONTALE								INFERIORE VERTICALE											
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF	GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF						
493	25	8.32	8.32	83.	60.	0.00	0.20	8.06	8.06	75.	49.	0.00	0.17	493	25	8.32	8.32	83.	60.	0.00	0.20	8.06	8.06	75.	49.	0.00	0.17
494	25	8.32	8.32	65.	46.	0.00	0.15	8.06	8.06	50.	44.	0.00	0.14	494	25	8.32	8.32	65.	46.	0.00	0.15	8.06	8.06	50.	44.	0.00	0.14
495	25	8.32	8.32	20.	37.	0.00	0.11	8.06	8.06	19.	22.	0.00	0.07	495	25	8.32	8.32	20.	37.	0.00	0.11	8.06	8.06	19.	22.	0.00	0.07
496	25	8.32	8.32	22.	33.	0.00	0.10	8.06	8.06	29.	22.	0.00	0.07	496	25	8.32	8.32	22.	33.	0.00	0.10	8.06	8.06	29.	22.	0.00	0.07
497	25	8.32	8.32	73.	52.	0.00	0.17	8.06	8.06	38.	24.	0.00	0.08	497	25	8.32	8.32	73.	52.	0.00	0.17	8.06	8.06	38.	24.	0.00	0.08
498	25	8.32	8.32	60.	53.	0.00	0.17	8.06	8.06	33.	25.	0.00	0.08	498	25	8.32	8.32	60.	53.	0.00	0.17	8.06	8.06	33.	25.	0.00	0.08

								SUPERIORE ORIZZONTALE								SUPERIORE VERTICALE											
GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF	GUSCI	spess	Af	Afc	Mom	Nor	epsC	epsF						
493	25	8.32	8.32	0.	60.	0.00	0.17	8.06	8.06	0.	49.	0.00	0.14	493	25	8.32	8.32	0.	60.	0.00	0.17	8.06	8.06	0.	49.	0.00	0.14
494	25	8.32	8.32	0.	46.	0.00	0.13	8.06	8.06	0.	44.	0.00	0.13	494	25	8.32	8.32	0.	46.	0.00	0.13	8.06	8.06	0.	44.	0.00	0.13
495	25	8.32	8.32	0.	37.	0.00	0.11	8.06	8.06	0.	22.	0.00	0.06	495	25	8.32	8.32	0.	37.	0.00	0.11	8.06	8.06	0.	22.	0.00	0.06
496	25	8.32	8.32	0.	33.	0.00	0.10	8.06	8.06	0.	22.	0.00	0.06	496	25	8.32	8.32	0.	33.	0.00	0.10	8.06	8.06	0.	22.	0.00	0.06
497	25	8.32	8.32	0.	52.	0.00	0.15	8.06	8.06	0.	24.	0.00	0.07	497	25	8.32	8.32	0.	52.	0.00	0.15	8.06	8.06	0.	24.	0.00	0.07
498	25	8.32	8.32	0.	53.	0.00	0.15	8.06	8.06	0.	25.	0.00	0.07	498	25	8.32	8.32	0.	53.	0.00	0.15	8.06	8.06	0.	25.	0.00	0.07

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
493	0.1	0.2	0.2	494	0.3	0.2	0.4	495	0.0	0.0	0.0
496	0.1	0.0	0.1	497	0.1	0.1	0.2	498	0.3	0.2	0.4

MACROGUSCIO soletta\_1

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	-	forze	: [daN]
momenti	: [daNcm/cm]	-	tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	-	angoli	: [gradi]

armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk): 4500 daN/cm2  
 coefficiente sicurezza acciaio : 1.15  
 deformazione ultima acciaio : 67.5 per mille  
 deformazione ultima cls : 3.5 per mille  
 rapporto rottura/snervamento (k): 1.15  
 resistenza cilindrica cls (fck): 207.5 daN/cm2  
 coefficiente sicurezza cls : 1.5  
 coefficiente riduttivo (alfa): 0.85  
 copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm  
 moltiplicatore sollecitazioni : 1

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
388	15	8.47	8.47	0.	0.	0.10	0.14	7.98	7.98	663.	-31.	0.30	0.36
389	15	8.47	8.47	41.	0.	0.02	0.02	7.98	7.98	0.	-2.	0.00	0.00
390	15	8.47	8.47	73.	2.	0.03	0.05	7.98	7.98	118.	105.	0.00	0.39
391	15	8.47	8.47	14.	1.	0.02	0.03	7.98	7.98	1234.	-2.	0.53	0.74

  

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
388	15	8.47	8.47	405.	0.	0.17	0.23	7.98	7.98	0.	8.	0.03	0.02
389	15	8.47	8.47	0.	0.	0.00	0.00	7.98	7.98	780.	-2.	0.34	0.46
390	15	8.47	8.47	3.	2.	0.00	0.01	7.98	7.98	295.	105.	0.00	0.49
391	15	8.47	8.47	0.	1.	0.00	0.00	7.98	7.98	14.	-2.	0.31	0.43

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tz	GUSCI	tx	ty	tz	GUSCI	tx	ty	tz
388	0.5	1.2	0.9	389	0.0	4.5	4.5	390	0.1	2.3	2.3
391	0.4	2.8	1.6								

MACROGUSCIO soletta\_1

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)
16	Rara VentoX (RARA)
17	Rara VentoY (RARA)
18	Frequente (FREQUENTE)
19	Frequente VentoX (FREQUENTE)
20	Frequente VentoY (FREQUENTE)
21	Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wkR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " " " quasi permanente (mm) - " " " " = 0.1 mm

ARMATURA INFERIORE ORIZZONTALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
388	8.47	8.47	144	0.	5.75	161.	0.000	117	0.	4.68	131.	0.000	71	0.	2.84	78.	0.000
389	8.47	8.47	18	0.	0.74	21.	0.000	15	0.	0.61	17.	0.000	34	0.	1.35	37.	0.000
390	8.47	8.47	54	1	2.13	66.	0.000	49	1	1.93	60.	0.000	48	1	1.92	59.	0.000
391	8.47	8.47	123	0.	4.91	141.	0.000	93	0.	3.71	107.	0.000	77	0.	3.05	88.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI	COMBINAZIONE RARA							COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
388	7.98	7.98	278	-8	11.46	283.	0.000	217	-7	8.94	218.	0.000	143	-11	5.85	106.	0.000
389	7.98	7.98	0.	-10	0.58	-9.	0.000	0.	-9	0.52	-8.	0.000	0.	-9	0.50	-8.	0.000

390	7.98	7.98	206	31	7.14	454.	0.000	155	28	4.98	374.	0.000	140	27	4.37	347.	0.000
391	7.98	7.98	308	1	12.61	379.	0.000	260	1	10.62	319.	0.000	0.	1	0.00	3.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
388	8.47	8.47	0.	0.	0.03	0.	0.000	0.	0.	0.02	0.	0.000	30	0.	1.21	32.	0.000
389	8.47	8.47	18	0.	0.72	20.	0.000	15	0.	0.60	17.	0.000	0.	0.	0.01	0.	0.000
390	8.47	8.47	0.	1	0.00	5.	0.000	0.	1	0.00	4.	0.000	0.	1	0.00	4.	0.000
391	8.47	8.47	0.	0.	0.00	1.	0.000	0.	0.	0.00	1.	0.000	0.	0.	0.00	1.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI	Af Afc		COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Mom	Nor	σc	σf	wkR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP		
388	7.98	7.98	0.	-8	0.46	-7.	0.000	0.	-7	0.39	-6.	0.000	0.	-11	0.61	-9.	0.000
389	7.98	7.98	270	-10	11.12	260.	0.000	216	-9	8.88	201.	0.000	194	-9	7.99	178.	0.000
390	7.98	7.98	0.	31	0.00	192.	0.000	0.	28	0.00	175.	0.000	0.	27	0.00	166.	0.000
391	7.98	7.98	0.	1	0.00	8.	0.000	0.	1	0.00	7.	0.000	60	1	2.45	76.	0.000

MACROGUSCIO soletta\_2

VERIFICA ARMATURE EFFETTIVE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	-	forze	: [daN]
momenti	: [daNcm/cm]	-	tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	-	angoli	: [gradi]
armature	: [cm2]			

CASI DI CARICO:

Nome	Descrizione
1	SLU
2	SLU VENTOX
3	SLU VENTOY
6	SLU con SISMAX PRINC
7	SLU con SISMAX PRINC

DATI:

tensione di snervamento acciaio (fyk):	4500	daN/cm2
coefficiente sicurezza acciaio	: 1.15	
deformazione ultima acciaio	: 67.5	per mille
deformazione ultima cls	: 3.5	per mille
rapporto rottura/snervamento (k):	1.15	
resistenza cilindrica cls (fck):	207.5	daN/cm2
coefficiente sicurezza cls	: 1.5	
coefficiente riduttivo (alfa):	0.85	
copriferro inferiore (asse armatura):	3	cm
copriferro superiore (asse armatura):	3	cm
moltiplicatore sollecitazioni	: 1	

GUSCI	spess	INFERIORE ORIZZONTALE						INFERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
463	15	8.47	8.47	0.	1.	0.09	0.13	7.98	7.98	738.	-31.	0.34	0.40
464	15	8.47	8.47	0.	1.	0.00	0.00	7.98	7.98	539.	-2.	0.23	0.32
465	15	8.47	8.47	239.	1.	0.10	0.14	7.98	7.98	757.	-1.	0.32	0.45
466	15	8.47	8.47	0.	2.	0.00	0.01	7.98	7.98	1336.	-2.	0.57	0.80

  

GUSCI	spess	SUPERIORE ORIZZONTALE						SUPERIORE VERTICALE					
		Af	Afc	Mom	Nor	epsC	epsF	Af	Afc	Mom	Nor	epsC	epsF
463	15	8.47	8.47	414.	1.	0.17	0.24	7.98	7.98	0.	-24.	0.02	-0.02
464	15	8.47	8.47	0.	1.	0.00	0.00	7.98	7.98	1466.	-2.	0.63	0.88
465	15	8.47	8.47	0.	1.	0.00	0.00	7.98	7.98	0.	-1.	0.00	0.00
466	15	8.47	8.47	29.	2.	0.04	0.06	7.98	7.98	60.	-2.	0.32	0.50

\*\*\*\*\* TAGLIO PERPENDICOLARE

GUSCI	tx	ty	tt	GUSCI	tx	ty	tt	GUSCI	tx	ty	tt
463	0.8	1.4	1.1	464	1.0	7.6	7.7	465	0.2	0.6	0.7
466	0.3	3.6	2.3								

MACROGUSCIO soletta\_2

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze	: [cm]	-	forze	: [daN]
momenti	: [daNcm/cm]	-	tensioni	: [daN/cm2]
pesi specifici	: [daN/cm3]	-	angoli	: [gradi]
armature	: [cm2]			

CASI DI CARICO:

Nome	Descrizione
15	Rara (RARA)



- 16 Rara VentoX (RARA)
- 17 Rara VentoY (RARA)
- 18 Frequente (FREQUENTE)
- 19 Frequente VentoX (FREQUENTE)
- 20 Frequente VentoY (FREQUENTE)
- 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " " " = 0.1 mm

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
463	8.47	8.47	186	0.	7.42	209.	0.000	155	0.	6.18	175.	0.000	95	-1	3.79	104.	0.000
464	8.47	8.47	6	0.	0.22	8.	0.000	5	0.	0.18	6.	0.000	61	0.	2.42	69.	0.000
465	8.47	8.47	159	1	6.31	183.	0.000	129	1	5.15	151.	0.000	158	0.	6.27	181.	0.000
466	8.47	8.47	145	0.	5.78	168.	0.000	114	0.	4.54	132.	0.000	114	0.	4.54	132.	0.000

ARMATURA INFERIORE VERTICALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
463	7.98	7.98	355	-10	14.62	365.	0.000	282	-8	11.62	287.	0.000	179	-13	7.35	134.	0.000
464	7.98	7.98	0.	-3	0.19	-3.	0.000	0.	-3	0.16	-2.	0.000	0.	-3	0.16	-2.	0.000
465	7.98	7.98	534	-1	21.87	635.	0.028	433	0.	17.73	517.	0.010	398	0.	16.30	476.	0.003
466	7.98	7.98	302	3	12.32	386.	0.000	260	3	10.62	332.	0.000	0.	2	0.00	15.	0.000

ARMATURA SUPERIORE ORIZZONTALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
463	8.47	8.47	0.	0.	0.02	0.	0.000	0.	0.	0.02	0.	0.000	64	-1	2.56	69.	0.000
464	8.47	8.47	43	0.	1.71	50.	0.000	38	0.	1.50	44.	0.000	0.	0.	0.00	0.	0.000
465	8.47	8.47	0.	1	0.00	3.	0.000	0.	1	0.00	4.	0.000	0.	0.	0.00	2.	0.000
466	8.47	8.47	33	0.	1.29	39.	0.000	25	0.	1.01	31.	0.000	0.	0.	0.00	2.	0.000

ARMATURA SUPERIORE VERTICALE

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
463	7.98	7.98	0.	-10	0.55	-8.	0.000	0.	-8	0.46	-7.	0.000	3	-13	0.69	-12.	0.000
464	7.98	7.98	638	-3	26.18	745.	0.043	514	-3	21.08	599.	0.024	468	-3	19.18	544.	0.016
465	7.98	7.98	0.	-1	0.06	-1.	0.000	0.	0.	0.03	0.	0.000	0.	0.	0.02	0.	0.000
466	7.98	7.98	0.	3	0.00	22.	0.000	0.	3	0.00	18.	0.000	204	2	8.31	261.	0.000

MACROGUSCIO soletta

VERIFICHE A FESSURAZIONE (EFFETTO MEMBRANA + PIASTRA)

unità di misura:

lunghezze : [cm] - forze : [daN]  
 momenti : [daNcm/cm] - tensioni : [daN/cm2]  
 pesi specifici: [daN/cm3] - angoli : [gradi]  
 armature : [cm2]

CASI DI CARICO:

- Nome Descrizione
- 15 Rara (RARA)
- 16 Rara VentoX (RARA)
- 17 Rara VentoY (RARA)
- 18 Frequente (FREQUENTE)
- 19 Frequente VentoX (FREQUENTE)
- 20 Frequente VentoY (FREQUENTE)
- 21 Quasi Perm (QUASI PERMANENTE)

DATI:

copriferro inferiore (asse armatura): 3 cm  
 copriferro superiore (asse armatura): 3 cm

Af = area effettiva disposta nello strato indicato (cm2 al metro)  
 wKR = apertura caratteristica per combinazione rara (mm) - apertura max = 0.3 mm  
 wkF = " " " " frequente (mm) - " " " " = 0.2 mm  
 wkP = " " " " quasi permanente (mm) - " " " " = 0.1 mm

GUSCI			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
	Af	Afc	Mom	Nor	σc	σf	wKR	Mom	Nor	σc	σf	wkF	Mom	Nor	σc	σf	wkP
493	8.32	8.32	28	29	0.00	189.	0.000	22	23	0.00	151.	0.000	21	22	0.00	144.	0.000
494	8.32	8.32	27	25	0.00	169.	0.000	21	21	0.00	137.	0.000	20	20	0.00	130.	0.000
495	8.32	8.32	9	24	0.00	148.	0.000	7	20	0.00	123.	0.000	6	19	0.00	119.	0.000

496	8.32	8.32	10	23	0.00	145.	0.000	8	19	0.00	121.	0.000	7	19	0.00	119.	0.000
497	8.32	8.32	38	36	0.00	240.	0.000	31	30	0.00	198.	0.000	29	28	0.00	188.	0.000
498	8.32	8.32	41	38	0.00	253.	0.000	33	31	0.00	208.	0.000	31	30	0.00	198.	0.000

ARMATURA INFERIORE VERTICALE

			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wKR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
493	8.06	8.06	32	21	0.00	152.	0.000	25	17	0.00	120.	0.000	24	16	0.00	114.	0.000
494	8.06	8.06	19	19	0.00	129.	0.000	15	15	0.00	103.	0.000	14	14	0.00	98.	0.000
495	8.06	8.06	16	9	0.00	67.	0.000	13	8	0.00	55.	0.000	12	7	0.00	53.	0.000
496	8.06	8.06	16	9	0.00	64.	0.000	14	7	0.00	55.	0.000	13	8	0.00	55.	0.000
497	8.06	8.06	15	17	0.00	116.	0.000	13	15	0.00	99.	0.000	12	14	0.00	95.	0.000
498	8.06	8.06	17	19	0.00	130.	0.000	15	16	0.00	112.	0.000	14	16	0.00	107.	0.000

ARMATURA SUPERIORE ORIZZONTALE

			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wKR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
493	8.32	8.32	0.	29	0.00	172.	0.000	0.	23	0.00	137.	0.000	0.	22	0.00	131.	0.000
494	8.32	8.32	0.	25	0.00	152.	0.000	0.	21	0.00	124.	0.000	0.	20	0.00	118.	0.000
495	8.32	8.32	0.	24	0.00	142.	0.000	0.	20	0.00	119.	0.000	0.	19	0.00	115.	0.000
496	8.32	8.32	0.	23	0.00	139.	0.000	0.	19	0.00	117.	0.000	0.	19	0.00	114.	0.000
497	8.32	8.32	0.	36	0.00	216.	0.000	0.	30	0.00	178.	0.000	0.	28	0.00	169.	0.000
498	8.32	8.32	0.	38	0.00	226.	0.000	0.	31	0.00	187.	0.000	0.	30	0.00	178.	0.000

ARMATURA SUPERIORE VERTICALE

			COMBINAZIONE RARA					COMBINAZIONE FREQUENTE					COMBINAZIONE QUASI PERMANENTE				
GUSCI	Af	Afc	Mom	Nor	$\sigma_c$	$\sigma_f$	wKR	Mom	Nor	$\sigma_c$	$\sigma_f$	wkF	Mom	Nor	$\sigma_c$	$\sigma_f$	wkP
493	8.06	8.06	0.	21	0.00	131.	0.000	0.	17	0.00	103.	0.000	0.	16	0.00	98.	0.000
494	8.06	8.06	0.	19	0.00	116.	0.000	0.	15	0.00	93.	0.000	0.	14	0.00	89.	0.000
495	8.06	8.06	0.	9	0.00	57.	0.000	0.	8	0.00	47.	0.000	0.	7	0.00	45.	0.000
496	8.06	8.06	0.	9	0.00	53.	0.000	0.	7	0.00	46.	0.000	0.	8	0.00	47.	0.000
497	8.06	8.06	0.	17	0.00	107.	0.000	0.	15	0.00	91.	0.000	0.	14	0.00	87.	0.000
498	8.06	8.06	0.	19	0.00	119.	0.000	0.	16	0.00	102.	0.000	0.	16	0.00	98.	0.000