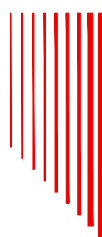


COMUNE DI CAMERANO

COMMITTENTE: Amministrazione Comunale

**Progetto per l'adeguamento sismico dell'Asilo Nido
Damiano Chiesa sito nel Comune di Camerano in Via D.Chiesa**

PROGETTAZIONE:

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PROGETTO ESECUTIVO

TAVOLA:

RT.04

SCALA: -

DATA: 10/02/2017

ELABORATI GRAFICI

OPERE CIVILI

ELABORATO:

Tabulato dei calcoli

I PROGETTISTI:

Ing. Matteo Cannelli

I COMMITTENTI:

Comune di Camerano

I COLLABORATORI:

AGG.	DATA	DESCRIZIONE	REDATTO	PROGETTATO	VERIFICATO	ACQUISITO	APPROVATO
3							
2							
1							
0	Febbraio 2017		M.F.	S.A.G.I.	S.A.G.I.	S.A.G.I.	S.A.G.I.

PERCORSO FILE: PERCORSO FILE 1

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NORMATIVA DI RIFERIMENTO

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M. del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni. (C.N.R. 10012/85)*

CALCOLO DELL'INDICE DI RISCHIO ALLO STATO LIMITE DI DANNO

Dati relativi ai nodi della struttura

Convenzioni adottate

La terna di riferimento generale è destrorsa.

I nodi vengono numerati, con riferimento a una sezione orizzontale, da sinistra a destra, dal basso verso l'alto e per quote crescenti.

L'impalcato di appartenenza di un nodo è definito, in generale, dalla prima delle tre cifre che ne definiscono il numero, possono tuttavia presentarsi casi in cui si hanno più di 100 nodi per solaio nel qual caso il solaio di appartenenza è specificato dall'ultimo valore stampato nella riga dei dati relativi al nodo.

La maschera dei vincoli è costituita dai valori 0 e 1. Il valore 1 indica che per il nodo in riferimento il grado di libertà correlativo è soppresso mentre il valore 0 indica che è libero.

Nel caso di edifici civili multipiano l'asse z generale coincide con l'asse verticale rivolto verso l'alto.

Nodi

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
1	4.40	7.18	0.00	1	1	1	1	1	1	0
2	8.52	7.18	0.00	1	1	1	1	1	1	0
3	16.93	7.18	0.00	1	1	1	1	1	1	0
4	21.05	7.18	0.00	1	1	1	1	1	1	0
5	25.17	7.18	0.00	1	1	1	1	1	1	0
6	12.72	14.43	0.00	1	1	1	1	1	1	0
7	16.84	14.43	0.00	0	0	1	0	0	0	0
8	29.38	14.43	0.00	1	1	1	1	1	1	0
9	8.61	14.43	0.00	1	1	1	1	1	1	0
10	25.25	14.43	0.00	1	1	1	1	1	1	0
101	4.40	7.18	3.00	0	0	0	0	0	0	1
102	8.52	7.18	3.00	0	0	0	0	0	0	1
103	16.93	7.18	3.00	0	0	0	0	0	0	1
104	21.05	7.18	3.00	0	0	0	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
105	25.17	7.18	3.00	0	0	0	0	0	0	1
106	12.72	14.43	3.00	0	0	0	0	0	0	1
107	16.84	14.43	3.00	0	0	0	0	0	0	1
108	29.38	14.43	3.00	0	0	0	0	0	0	1
109	8.61	14.43	3.00	0	0	0	0	0	0	1
110	25.25	14.43	3.00	0	0	0	0	0	0	1
111	0.48	0.11	3.00	0	0	1	0	0	0	1
112	3.43	0.11	3.00	0	0	1	0	0	0	1
113	22.02	0.11	3.00	0	0	1	0	0	0	1
114	24.97	0.11	3.00	0	0	1	0	0	0	1
115	8.69	0.51	3.00	0	0	1	0	0	0	1
116	8.69	2.88	3.00	0	0	1	0	0	0	1
117	29.28	7.18	3.00	0	0	1	0	0	0	1
118	33.18	7.18	3.00	0	0	1	0	0	0	1
119	16.76	0.11	3.00	0	0	1	0	0	0	1
120	17.13	0.11	3.00	0	0	1	0	0	0	1
121	0.11	0.11	3.00	0	0	1	0	0	0	1
122	0.85	0.11	3.00	0	0	1	0	0	0	1
123	1.22	0.11	3.00	0	0	1	0	0	0	1
124	1.59	0.11	3.00	0	0	1	0	0	0	1
125	1.95	0.11	3.00	0	0	1	0	0	0	1
126	2.32	0.11	3.00	0	0	1	0	0	0	1
127	2.69	0.11	3.00	0	0	1	0	0	0	1
128	3.06	0.11	3.00	0	0	1	0	0	0	1
129	3.80	0.11	3.00	0	0	1	0	0	0	1
130	3.90	0.11	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
131	4.17	0.11	3.00	0	0	1	0	0	0	1
132	4.45	0.11	3.00	0	0	1	0	0	0	1
133	5.60	0.11	3.00	0	0	1	0	0	0	1
134	6.80	0.11	3.00	0	0	1	0	0	0	1
135	7.95	0.11	3.00	0	0	1	0	0	0	1
136	8.32	0.11	3.00	0	0	1	0	0	0	1
137	8.69	0.11	3.00	0	0	1	0	0	0	1
138	17.50	0.11	3.00	0	0	1	0	0	0	1
139	18.65	0.11	3.00	0	0	1	0	0	0	1
140	19.85	0.11	3.00	0	0	1	0	0	0	1
141	21.00	0.11	3.00	0	0	1	0	0	0	1
142	21.28	0.11	3.00	0	0	1	0	0	0	1
143	21.55	0.11	3.00	0	0	1	0	0	0	1
144	21.65	0.11	3.00	0	0	1	0	0	0	1
145	22.39	0.11	3.00	0	0	1	0	0	0	1
146	22.76	0.11	3.00	0	0	1	0	0	0	1
147	23.13	0.11	3.00	0	0	1	0	0	0	1
148	23.50	0.11	3.00	0	0	1	0	0	0	1
149	23.86	0.11	3.00	0	0	1	0	0	0	1
150	24.23	0.11	3.00	0	0	1	0	0	0	1
151	24.60	0.11	3.00	0	0	1	0	0	0	1
152	25.34	0.11	3.00	0	0	1	0	0	0	1
153	4.83	0.11	3.00	0	0	1	0	0	0	1
154	5.22	0.11	3.00	0	0	1	0	0	0	1
155	6.00	0.11	3.00	0	0	1	0	0	0	1
156	6.40	0.11	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
157	7.18	0.11	3.00	0	0	1	0	0	0	1
158	7.57	0.11	3.00	0	0	1	0	0	0	1
159	17.88	0.11	3.00	0	0	1	0	0	0	1
160	18.27	0.11	3.00	0	0	1	0	0	0	1
161	19.05	0.11	3.00	0	0	1	0	0	0	1
162	19.45	0.11	3.00	0	0	1	0	0	0	1
163	20.23	0.11	3.00	0	0	1	0	0	0	1
164	20.62	0.11	3.00	0	0	1	0	0	0	1
165	0.11	0.22	3.00	0	0	1	0	0	0	1
166	8.69	0.22	3.00	0	0	1	0	0	0	1
167	25.34	0.22	3.00	0	0	1	0	0	0	1
168	16.76	0.22	3.00	0	0	1	0	0	0	1
169	0.11	0.52	3.00	0	0	1	0	0	0	1
170	16.76	0.52	3.00	0	0	1	0	0	0	1
171	25.34	0.59	3.00	0	0	1	0	0	0	1
172	8.69	0.81	3.00	0	0	1	0	0	0	1
173	0.11	0.82	3.00	0	0	1	0	0	0	1
174	16.76	0.82	3.00	0	0	1	0	0	0	1
175	25.34	0.96	3.00	0	0	1	0	0	0	1
176	8.69	1.11	3.00	0	0	1	0	0	0	1
177	0.11	1.20	3.00	0	0	1	0	0	0	1
178	16.76	1.20	3.00	0	0	1	0	0	0	1
179	25.34	1.33	3.00	0	0	1	0	0	0	1
180	8.69	1.40	3.00	0	0	1	0	0	0	1
181	0.11	1.59	3.00	0	0	1	0	0	0	1
182	16.76	1.59	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
183	8.69	1.70	3.00	0	0	1	0	0	0	1
184	25.34	1.70	3.00	0	0	1	0	0	0	1
185	0.11	1.97	3.00	0	0	1	0	0	0	1
186	16.76	1.97	3.00	0	0	1	0	0	0	1
187	8.69	1.99	3.00	0	0	1	0	0	0	1
188	25.34	2.06	3.00	0	0	1	0	0	0	1
189	8.69	2.29	3.00	0	0	1	0	0	0	1
190	0.11	2.37	3.00	0	0	1	0	0	0	1
191	16.76	2.37	3.00	0	0	1	0	0	0	1
192	25.34	2.43	3.00	0	0	1	0	0	0	1
193	8.69	2.58	3.00	0	0	1	0	0	0	1
194	0.11	2.77	3.00	0	0	1	0	0	0	1
195	16.76	2.77	3.00	0	0	1	0	0	0	1
196	25.34	2.80	3.00	0	0	1	0	0	0	1
197	0.11	3.17	3.00	0	0	1	0	0	0	1
198	8.69	3.17	3.00	0	0	1	0	0	0	1
199	16.76	3.17	3.00	0	0	1	0	0	0	1
200	25.34	3.17	3.00	0	0	1	0	0	0	1
201	0.11	3.55	3.00	0	0	1	0	0	0	1
202	8.69	3.55	3.00	0	0	1	0	0	0	1
203	16.76	3.55	3.00	0	0	1	0	0	0	1
204	25.34	3.55	3.00	0	0	1	0	0	0	1
205	0.11	3.94	3.00	0	0	1	0	0	0	1
206	8.69	3.94	3.00	0	0	1	0	0	0	1
207	16.76	3.94	3.00	0	0	1	0	0	0	1
208	25.34	3.94	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
209	0.11	4.32	3.00	0	0	1	0	0	0	1
210	8.69	4.32	3.00	0	0	1	0	0	0	1
211	16.76	4.32	3.00	0	0	1	0	0	0	1
212	25.34	4.32	3.00	0	0	1	0	0	0	1
213	0.11	4.72	3.00	0	0	1	0	0	0	1
214	8.69	4.72	3.00	0	0	1	0	0	0	1
215	16.76	4.72	3.00	0	0	1	0	0	0	1
216	25.34	4.72	3.00	0	0	1	0	0	0	1
217	0.11	5.12	3.00	0	0	1	0	0	0	1
218	8.69	5.12	3.00	0	0	1	0	0	0	1
219	16.76	5.12	3.00	0	0	1	0	0	0	1
220	25.34	5.12	3.00	0	0	1	0	0	0	1
221	0.11	5.52	3.00	0	0	1	0	0	0	1
222	8.69	5.52	3.00	0	0	1	0	0	0	1
223	16.76	5.52	3.00	0	0	1	0	0	0	1
224	25.34	5.52	3.00	0	0	1	0	0	0	1
225	0.11	5.90	3.00	0	0	1	0	0	0	1
226	8.69	5.90	3.00	0	0	1	0	0	0	1
227	16.76	5.90	3.00	0	0	1	0	0	0	1
228	25.34	5.90	3.00	0	0	1	0	0	0	1
229	0.11	6.29	3.00	0	0	1	0	0	0	1
230	8.69	6.29	3.00	0	0	1	0	0	0	1
231	16.76	6.29	3.00	0	0	1	0	0	0	1
232	25.34	6.29	3.00	0	0	1	0	0	0	1
233	0.11	6.67	3.00	0	0	1	0	0	0	1
234	8.69	6.67	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
235	16.76	6.67	3.00	0	0	1	0	0	0	1
236	25.34	6.67	3.00	0	0	1	0	0	0	1
237	8.69	6.87	3.00	0	0	1	0	0	0	1
238	25.34	6.87	3.00	0	0	1	0	0	0	1
239	16.76	6.93	3.00	0	0	1	0	0	0	1
240	0.11	6.94	3.00	0	0	1	0	0	0	1
241	8.69	7.07	3.00	0	0	1	0	0	0	1
242	25.34	7.08	3.00	0	0	1	0	0	0	1
243	0.11	7.18	3.00	0	0	1	0	0	0	1
244	8.69	7.18	3.00	0	0	1	0	0	0	1
245	9.12	7.18	3.00	0	0	1	0	0	0	1
246	9.55	7.18	3.00	0	0	1	0	0	0	1
247	9.97	7.18	3.00	0	0	1	0	0	0	1
248	10.40	7.18	3.00	0	0	1	0	0	0	1
249	11.55	7.18	3.00	0	0	1	0	0	0	1
250	11.82	7.18	3.00	0	0	1	0	0	0	1
251	12.10	7.18	3.00	0	0	1	0	0	0	1
252	12.20	7.18	3.00	0	0	1	0	0	0	1
253	12.48	7.18	3.00	0	0	1	0	0	0	1
254	12.75	7.18	3.00	0	0	1	0	0	0	1
255	13.90	7.18	3.00	0	0	1	0	0	0	1
256	15.10	7.18	3.00	0	0	1	0	0	0	1
257	16.25	7.18	3.00	0	0	1	0	0	0	1
258	16.45	7.18	3.00	0	0	1	0	0	0	1
259	16.65	7.18	3.00	0	0	1	0	0	0	1
260	16.76	7.18	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
261	28.79	7.18	3.00	0	0	1	0	0	0	1
262	29.77	7.18	3.00	0	0	1	0	0	0	1
263	31.23	7.18	3.00	0	0	1	0	0	0	1
264	32.69	7.18	3.00	0	0	1	0	0	0	1
265	33.67	7.18	3.00	0	0	1	0	0	0	1
266	10.78	7.18	3.00	0	0	1	0	0	0	1
267	11.17	7.18	3.00	0	0	1	0	0	0	1
268	13.13	7.18	3.00	0	0	1	0	0	0	1
269	13.52	7.18	3.00	0	0	1	0	0	0	1
270	14.30	7.18	3.00	0	0	1	0	0	0	1
271	14.70	7.18	3.00	0	0	1	0	0	0	1
272	15.48	7.18	3.00	0	0	1	0	0	0	1
273	15.87	7.18	3.00	0	0	1	0	0	0	1
274	25.34	7.18	3.00	0	0	1	0	0	0	1
275	28.68	7.18	3.00	0	0	1	0	0	0	1
276	30.25	7.18	3.00	0	0	1	0	0	0	1
277	30.74	7.18	3.00	0	0	1	0	0	0	1
278	31.72	7.18	3.00	0	0	1	0	0	0	1
279	32.20	7.18	3.00	0	0	1	0	0	0	1
280	0.11	7.28	3.00	0	0	1	0	0	0	1
281	33.67	7.29	3.00	0	0	1	0	0	0	1
282	25.34	7.49	3.00	0	0	1	0	0	0	1
283	28.68	7.50	3.00	0	0	1	0	0	0	1
284	33.67	7.59	3.00	0	0	1	0	0	0	1
285	0.11	7.60	3.00	0	0	1	0	0	0	1
286	25.34	7.81	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
287	28.68	7.82	3.00	0	0	1	0	0	0	1
288	0.11	7.87	3.00	0	0	1	0	0	0	1
289	33.67	7.89	3.00	0	0	1	0	0	0	1
290	25.34	8.13	3.00	0	0	1	0	0	0	1
291	28.68	8.13	3.00	0	0	1	0	0	0	1
292	0.11	8.25	3.00	0	0	1	0	0	0	1
293	33.67	8.27	3.00	0	0	1	0	0	0	1
294	25.34	8.44	3.00	0	0	1	0	0	0	1
295	28.68	8.45	3.00	0	0	1	0	0	0	1
296	0.11	8.64	3.00	0	0	1	0	0	0	1
297	33.67	8.66	3.00	0	0	1	0	0	0	1
298	25.34	8.76	3.00	0	0	1	0	0	0	1
299	28.68	8.77	3.00	0	0	1	0	0	0	1
300	0.11	9.02	3.00	0	0	1	0	0	0	1
301	33.67	9.04	3.00	0	0	1	0	0	0	1
302	25.34	9.08	3.00	0	0	1	0	0	0	1
303	28.68	9.09	3.00	0	0	1	0	0	0	1
304	25.34	9.40	3.00	0	0	1	0	0	0	1
305	28.68	9.40	3.00	0	0	1	0	0	0	1
306	0.11	9.42	3.00	0	0	1	0	0	0	1
307	33.67	9.44	3.00	0	0	1	0	0	0	1
308	25.34	9.72	3.00	0	0	1	0	0	0	1
309	28.68	9.72	3.00	0	0	1	0	0	0	1
310	0.11	9.82	3.00	0	0	1	0	0	0	1
311	33.67	9.84	3.00	0	0	1	0	0	0	1
312	0.11	10.22	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
313	33.67	10.24	3.00	0	0	1	0	0	0	1
314	0.11	10.60	3.00	0	0	1	0	0	0	1
315	33.67	10.62	3.00	0	0	1	0	0	0	1
316	0.11	10.99	3.00	0	0	1	0	0	0	1
317	33.67	11.01	3.00	0	0	1	0	0	0	1
318	0.11	11.37	3.00	0	0	1	0	0	0	1
319	33.67	11.39	3.00	0	0	1	0	0	0	1
320	0.11	11.77	3.00	0	0	1	0	0	0	1
321	33.67	11.79	3.00	0	0	1	0	0	0	1
322	0.11	12.17	3.00	0	0	1	0	0	0	1
323	33.67	12.19	3.00	0	0	1	0	0	0	1
324	0.11	12.57	3.00	0	0	1	0	0	0	1
325	33.67	12.59	3.00	0	0	1	0	0	0	1
326	0.11	12.95	3.00	0	0	1	0	0	0	1
327	33.67	12.97	3.00	0	0	1	0	0	0	1
328	0.11	13.34	3.00	0	0	1	0	0	0	1
329	33.67	13.36	3.00	0	0	1	0	0	0	1
330	0.11	13.72	3.00	0	0	1	0	0	0	1
331	33.67	13.74	3.00	0	0	1	0	0	0	1
332	33.67	14.01	3.00	0	0	1	0	0	0	1
333	0.11	14.02	3.00	0	0	1	0	0	0	1
334	33.67	14.29	3.00	0	0	1	0	0	0	1
335	0.11	14.32	3.00	0	0	1	0	0	0	1
336	33.67	14.34	3.00	0	0	1	0	0	0	1
337	17.01	14.43	3.00	0	0	1	0	0	0	1
338	33.67	14.43	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
339	0.11	14.43	3.00	0	0	1	0	0	0	1
340	0.48	14.43	3.00	0	0	1	0	0	0	1
341	0.85	14.43	3.00	0	0	1	0	0	0	1
342	2.00	14.43	3.00	0	0	1	0	0	0	1
343	3.20	14.43	3.00	0	0	1	0	0	0	1
344	4.35	14.43	3.00	0	0	1	0	0	0	1
345	4.63	14.43	3.00	0	0	1	0	0	0	1
346	4.90	14.43	3.00	0	0	1	0	0	0	1
347	5.00	14.43	3.00	0	0	1	0	0	0	1
348	5.27	14.43	3.00	0	0	1	0	0	0	1
349	5.55	14.43	3.00	0	0	1	0	0	0	1
350	6.70	14.43	3.00	0	0	1	0	0	0	1
351	6.99	14.43	3.00	0	0	1	0	0	0	1
352	7.57	14.43	3.00	0	0	1	0	0	0	1
353	8.15	14.43	3.00	0	0	1	0	0	0	1
354	8.44	14.43	3.00	0	0	1	0	0	0	1
355	17.13	14.43	3.00	0	0	1	0	0	0	1
356	17.33	14.43	3.00	0	0	1	0	0	0	1
357	17.52	14.43	3.00	0	0	1	0	0	0	1
358	18.67	14.43	3.00	0	0	1	0	0	0	1
359	19.88	14.43	3.00	0	0	1	0	0	0	1
360	21.02	14.43	3.00	0	0	1	0	0	0	1
361	21.30	14.43	3.00	0	0	1	0	0	0	1
362	21.58	14.43	3.00	0	0	1	0	0	0	1
363	21.67	14.43	3.00	0	0	1	0	0	0	1
364	21.95	14.43	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
365	22.23	14.43	3.00	0	0	1	0	0	0	1
366	23.38	14.43	3.00	0	0	1	0	0	0	1
367	23.66	14.43	3.00	0	0	1	0	0	0	1
368	24.23	14.43	3.00	0	0	1	0	0	0	1
369	24.80	14.43	3.00	0	0	1	0	0	0	1
370	25.08	14.43	3.00	0	0	1	0	0	0	1
371	1.23	14.43	3.00	0	0	1	0	0	0	1
372	1.62	14.43	3.00	0	0	1	0	0	0	1
373	2.40	14.43	3.00	0	0	1	0	0	0	1
374	2.80	14.43	3.00	0	0	1	0	0	0	1
375	3.58	14.43	3.00	0	0	1	0	0	0	1
376	3.97	14.43	3.00	0	0	1	0	0	0	1
377	5.93	14.43	3.00	0	0	1	0	0	0	1
378	6.32	14.43	3.00	0	0	1	0	0	0	1
379	7.28	14.43	3.00	0	0	1	0	0	0	1
380	7.86	14.43	3.00	0	0	1	0	0	0	1
381	17.91	14.43	3.00	0	0	1	0	0	0	1
382	18.29	14.43	3.00	0	0	1	0	0	0	1
383	19.08	14.43	3.00	0	0	1	0	0	0	1
384	19.48	14.43	3.00	0	0	1	0	0	0	1
385	20.26	14.43	3.00	0	0	1	0	0	0	1
386	20.64	14.43	3.00	0	0	1	0	0	0	1
387	22.61	14.43	3.00	0	0	1	0	0	0	1
388	22.99	14.43	3.00	0	0	1	0	0	0	1
389	23.94	14.43	3.00	0	0	1	0	0	0	1
390	24.51	14.43	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
391	8.44	14.54	3.00	0	0	1	0	0	0	1
392	25.08	14.54	3.00	0	0	1	0	0	0	1
393	33.67	14.64	3.00	0	0	1	0	0	0	1
394	17.01	14.68	3.00	0	0	1	0	0	0	1
395	8.44	14.74	3.00	0	0	1	0	0	0	1
396	25.08	14.74	3.00	0	0	1	0	0	0	1
397	8.44	14.94	3.00	0	0	1	0	0	0	1
398	17.01	14.94	3.00	0	0	1	0	0	0	1
399	25.08	14.94	3.00	0	0	1	0	0	0	1
400	33.67	14.94	3.00	0	0	1	0	0	0	1
401	8.44	15.32	3.00	0	0	1	0	0	0	1
402	17.01	15.32	3.00	0	0	1	0	0	0	1
403	25.08	15.32	3.00	0	0	1	0	0	0	1
404	33.67	15.32	3.00	0	0	1	0	0	0	1
405	8.44	15.71	3.00	0	0	1	0	0	0	1
406	17.01	15.71	3.00	0	0	1	0	0	0	1
407	25.08	15.71	3.00	0	0	1	0	0	0	1
408	33.67	15.71	3.00	0	0	1	0	0	0	1
409	8.44	16.09	3.00	0	0	1	0	0	0	1
410	17.01	16.09	3.00	0	0	1	0	0	0	1
411	25.08	16.09	3.00	0	0	1	0	0	0	1
412	33.67	16.09	3.00	0	0	1	0	0	0	1
413	33.67	16.39	3.00	0	0	1	0	0	0	1
414	8.44	16.49	3.00	0	0	1	0	0	0	1
415	17.01	16.49	3.00	0	0	1	0	0	0	1
416	25.08	16.53	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
417	33.67	16.69	3.00	0	0	1	0	0	0	1
418	8.44	16.89	3.00	0	0	1	0	0	0	1
419	17.01	16.89	3.00	0	0	1	0	0	0	1
420	25.08	16.97	3.00	0	0	1	0	0	0	1
421	33.67	16.99	3.00	0	0	1	0	0	0	1
422	8.44	17.29	3.00	0	0	1	0	0	0	1
423	17.01	17.29	3.00	0	0	1	0	0	0	1
424	33.67	17.29	3.00	0	0	1	0	0	0	1
425	25.08	17.42	3.00	0	0	1	0	0	0	1
426	33.67	17.59	3.00	0	0	1	0	0	0	1
427	8.44	17.67	3.00	0	0	1	0	0	0	1
428	17.01	17.67	3.00	0	0	1	0	0	0	1
429	25.08	17.86	3.00	0	0	1	0	0	0	1
430	33.67	17.89	3.00	0	0	1	0	0	0	1
431	8.44	18.06	3.00	0	0	1	0	0	0	1
432	17.01	18.06	3.00	0	0	1	0	0	0	1
433	33.67	18.19	3.00	0	0	1	0	0	0	1
434	25.08	18.30	3.00	0	0	1	0	0	0	1
435	8.44	18.44	3.00	0	0	1	0	0	0	1
436	17.01	18.44	3.00	0	0	1	0	0	0	1
437	33.67	18.49	3.00	0	0	1	0	0	0	1
438	25.08	18.74	3.00	0	0	1	0	0	0	1
439	8.44	18.81	3.00	0	0	1	0	0	0	1
440	17.01	18.84	3.00	0	0	1	0	0	0	1
441	33.67	18.87	3.00	0	0	1	0	0	0	1
442	8.44	19.18	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
443	25.08	19.18	3.00	0	0	1	0	0	0	1
444	17.01	19.24	3.00	0	0	1	0	0	0	1
445	33.67	19.26	3.00	0	0	1	0	0	0	1
446	8.44	19.55	3.00	0	0	1	0	0	0	1
447	25.08	19.62	3.00	0	0	1	0	0	0	1
448	17.01	19.64	3.00	0	0	1	0	0	0	1
449	33.67	19.64	3.00	0	0	1	0	0	0	1
450	33.67	19.86	3.00	0	0	1	0	0	0	1
451	8.44	19.92	3.00	0	0	1	0	0	0	1
452	17.01	20.02	3.00	0	0	1	0	0	0	1
453	25.08	20.06	3.00	0	0	1	0	0	0	1
454	33.67	20.08	3.00	0	0	1	0	0	0	1
455	8.44	20.28	3.00	0	0	1	0	0	0	1
456	33.67	20.30	3.00	0	0	1	0	0	0	1
457	17.01	20.41	3.00	0	0	1	0	0	0	1
458	25.08	20.51	3.00	0	0	1	0	0	0	1
459	33.67	20.51	3.00	0	0	1	0	0	0	1
460	8.44	20.65	3.00	0	0	1	0	0	0	1
461	33.67	20.73	3.00	0	0	1	0	0	0	1
462	17.01	20.79	3.00	0	0	1	0	0	0	1
463	25.08	20.95	3.00	0	0	1	0	0	0	1
464	33.67	20.95	3.00	0	0	1	0	0	0	1
465	8.44	21.02	3.00	0	0	1	0	0	0	1
466	17.01	21.09	3.00	0	0	1	0	0	0	1
467	33.67	21.17	3.00	0	0	1	0	0	0	1
468	8.44	21.39	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
469	17.01	21.39	3.00	0	0	1	0	0	0	1
470	25.08	21.39	3.00	0	0	1	0	0	0	1
471	33.67	21.39	3.00	0	0	1	0	0	0	1
472	8.43	21.50	3.00	0	0	1	0	0	0	1
473	8.90	21.50	3.00	0	0	1	0	0	0	1
474	9.36	21.50	3.00	0	0	1	0	0	0	1
475	9.82	21.50	3.00	0	0	1	0	0	0	1
476	10.28	21.50	3.00	0	0	1	0	0	0	1
477	10.74	21.50	3.00	0	0	1	0	0	0	1
478	11.20	21.50	3.00	0	0	1	0	0	0	1
479	11.66	21.50	3.00	0	0	1	0	0	0	1
480	12.13	21.50	3.00	0	0	1	0	0	0	1
481	12.23	21.50	3.00	0	0	1	0	0	0	1
482	12.50	21.50	3.00	0	0	1	0	0	0	1
483	12.77	21.50	3.00	0	0	1	0	0	0	1
484	13.16	21.50	3.00	0	0	1	0	0	0	1
485	13.54	21.50	3.00	0	0	1	0	0	0	1
486	13.93	21.50	3.00	0	0	1	0	0	0	1
487	14.33	21.50	3.00	0	0	1	0	0	0	1
488	14.73	21.50	3.00	0	0	1	0	0	0	1
489	15.13	21.50	3.00	0	0	1	0	0	0	1
490	15.51	21.50	3.00	0	0	1	0	0	0	1
491	15.89	21.50	3.00	0	0	1	0	0	0	1
492	16.27	21.50	3.00	0	0	1	0	0	0	1
493	16.65	21.50	3.00	0	0	1	0	0	0	1
494	17.01	21.50	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
495	25.09	21.50	3.00	0	0	1	0	0	0	1
496	25.33	21.50	3.00	0	0	1	0	0	0	1
497	25.58	21.50	3.00	0	0	1	0	0	0	1
498	25.83	21.50	3.00	0	0	1	0	0	0	1
499	26.21	21.50	3.00	0	0	1	0	0	0	1
500	26.59	21.50	3.00	0	0	1	0	0	0	1
501	26.98	21.50	3.00	0	0	1	0	0	0	1
502	27.38	21.50	3.00	0	0	1	0	0	0	1
503	27.77	21.50	3.00	0	0	1	0	0	0	1
504	28.17	21.50	3.00	0	0	1	0	0	0	1
505	28.56	21.50	3.00	0	0	1	0	0	0	1
506	28.94	21.50	3.00	0	0	1	0	0	0	1
507	29.33	21.50	3.00	0	0	1	0	0	0	1
508	29.60	21.50	3.00	0	0	1	0	0	0	1
509	29.87	21.50	3.00	0	0	1	0	0	0	1
510	29.97	21.50	3.00	0	0	1	0	0	0	1
511	30.28	21.50	3.00	0	0	1	0	0	0	1
512	30.59	21.50	3.00	0	0	1	0	0	0	1
513	30.90	21.50	3.00	0	0	1	0	0	0	1
514	31.21	21.50	3.00	0	0	1	0	0	0	1
515	31.51	21.50	3.00	0	0	1	0	0	0	1
516	31.82	21.50	3.00	0	0	1	0	0	0	1
517	32.13	21.50	3.00	0	0	1	0	0	0	1
518	32.44	21.50	3.00	0	0	1	0	0	0	1
519	32.74	21.50	3.00	0	0	1	0	0	0	1
520	33.05	21.50	3.00	0	0	1	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
521	33.36	21.50	3.00	0	0	1	0	0	0	1
522	33.67	21.50	3.00	0	0	1	0	0	0	1
10000	25.25	14.43	203.00	1	1	1	1	1	1	0
10001	8.61	14.43	203.00	1	1	1	1	1	1	0
10002	21.05	7.18	203.00	1	1	1	1	1	1	0
10003	28.68	7.19	200.00	1	1	1	1	1	1	0
10004	0.11	7.18	200.30	1	1	1	1	1	1	0
10005	16.65	7.18	202.10	1	1	1	1	1	1	0
10006	25.08	14.43	200.30	1	1	1	1	1	1	0
10007	21.67	14.43	202.40	1	1	1	1	1	1	0
10008	16.93	207.18	0.00	1	1	1	1	1	1	0
10009	21.05	207.18	0.00	1	1	1	1	1	1	0
10010	25.17	207.18	0.00	1	1	1	1	1	1	0
10011	25.25	214.43	0.00	1	1	1	1	1	1	0
10012	29.38	214.43	0.00	1	1	1	1	1	1	0
10013	16.84	214.43	0.00	1	1	1	1	1	1	0
10014	12.72	214.43	0.00	1	1	1	1	1	1	0
10015	8.61	214.43	0.00	1	1	1	1	1	1	0
10016	8.52	207.18	0.00	1	1	1	1	1	1	0
10017	4.40	207.18	0.00	1	1	1	1	1	1	0
10018	0.11	0.11	203.00	1	1	1	1	1	1	0
10019	4.45	0.11	203.00	1	1	1	1	1	1	0
10020	4.83	0.11	203.00	1	1	1	1	1	1	0
10021	5.60	0.11	203.00	1	1	1	1	1	1	0
10022	6.40	0.11	203.00	1	1	1	1	1	1	0
10023	6.80	0.11	203.00	1	1	1	1	1	1	0

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
10024	7.57	0.11	203.00	1	1	1	1	1	1	0
10025	8.69	0.11	203.00	1	1	1	1	1	1	0
10026	8.69	0.22	203.00	1	1	1	1	1	1	0
10027	10.40	7.18	203.00	1	1	1	1	1	1	0
10028	11.17	7.18	203.00	1	1	1	1	1	1	0
10029	12.75	7.18	203.00	1	1	1	1	1	1	0
10030	13.52	7.18	203.00	1	1	1	1	1	1	0
10031	13.90	7.18	203.00	1	1	1	1	1	1	0
10032	14.70	7.18	203.00	1	1	1	1	1	1	0
10033	15.10	7.18	203.00	1	1	1	1	1	1	0
10034	15.87	7.18	203.00	1	1	1	1	1	1	0
10035	16.76	7.18	203.00	1	1	1	1	1	1	0
10036	16.76	6.67	203.00	1	1	1	1	1	1	0
10037	16.76	6.29	203.00	1	1	1	1	1	1	0
10038	16.76	5.90	203.00	1	1	1	1	1	1	0
10039	16.76	5.52	203.00	1	1	1	1	1	1	0
10040	16.76	4.72	203.00	1	1	1	1	1	1	0
10041	16.76	4.32	203.00	1	1	1	1	1	1	0
10042	16.76	3.55	203.00	1	1	1	1	1	1	0
10043	16.76	3.17	203.00	1	1	1	1	1	1	0
10044	16.76	2.37	203.00	1	1	1	1	1	1	0
10045	16.76	1.97	203.00	1	1	1	1	1	1	0
10046	16.76	1.20	203.00	1	1	1	1	1	1	0
10047	16.76	0.11	203.00	1	1	1	1	1	1	0
10048	17.13	0.11	203.00	1	1	1	1	1	1	0
10049	18.27	0.11	203.00	1	1	1	1	1	1	0

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
10050	18.65	0.11	203.00	1	1	1	1	1	1	0
10051	19.45	0.11	203.00	1	1	1	1	1	1	0
10052	19.85	0.11	203.00	1	1	1	1	1	1	0
10053	20.62	0.11	203.00	1	1	1	1	1	1	0
10054	25.34	0.11	203.00	1	1	1	1	1	1	0
10055	28.68	7.50	203.00	1	1	1	1	1	1	0
10056	28.68	7.18	203.00	1	1	1	1	1	1	0
10057	29.77	7.18	203.00	1	1	1	1	1	1	0
10058	30.74	7.18	203.00	1	1	1	1	1	1	0
10059	31.23	7.18	203.00	1	1	1	1	1	1	0
10060	32.20	7.18	203.00	1	1	1	1	1	1	0
10061	33.67	7.18	203.00	1	1	1	1	1	1	0
10062	33.67	21.50	203.00	1	1	1	1	1	1	0
10063	25.09	21.50	203.00	1	1	1	1	1	1	0
10064	25.08	16.09	203.00	1	1	1	1	1	1	0
10065	24.51	14.43	203.00	1	1	1	1	1	1	0
10066	24.23	14.43	203.00	1	1	1	1	1	1	0
10067	23.94	14.43	203.00	1	1	1	1	1	1	0
10068	22.61	14.43	203.00	1	1	1	1	1	1	0
10069	21.02	14.43	203.00	1	1	1	1	1	1	0
10070	20.26	14.43	203.00	1	1	1	1	1	1	0
10071	19.88	14.43	203.00	1	1	1	1	1	1	0
10072	19.08	14.43	203.00	1	1	1	1	1	1	0
10073	18.67	14.43	203.00	1	1	1	1	1	1	0
10074	17.91	14.43	203.00	1	1	1	1	1	1	0
10075	17.13	14.43	203.00	1	1	1	1	1	1	0

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
10076	17.01	14.43	203.00	1	1	1	1	1	1	0
10077	8.43	21.50	203.00	1	1	1	1	1	1	0
10078	8.44	21.39	203.00	1	1	1	1	1	1	0
10079	8.44	18.44	203.00	1	1	1	1	1	1	0
10080	8.44	18.06	203.00	1	1	1	1	1	1	0
10081	8.44	17.67	203.00	1	1	1	1	1	1	0
10082	8.44	17.29	203.00	1	1	1	1	1	1	0
10083	8.44	16.49	203.00	1	1	1	1	1	1	0
10084	8.44	16.09	203.00	1	1	1	1	1	1	0
10085	8.44	15.32	203.00	1	1	1	1	1	1	0
10086	8.15	14.43	203.00	1	1	1	1	1	1	0
10087	7.86	14.43	203.00	1	1	1	1	1	1	0
10088	7.57	14.43	203.00	1	1	1	1	1	1	0
10089	7.28	14.43	203.00	1	1	1	1	1	1	0
10090	6.70	14.43	203.00	1	1	1	1	1	1	0
10091	5.93	14.43	203.00	1	1	1	1	1	1	0
10092	4.35	14.43	203.00	1	1	1	1	1	1	0
10093	3.58	14.43	203.00	1	1	1	1	1	1	0
10094	3.20	14.43	203.00	1	1	1	1	1	1	0
10095	2.40	14.43	203.00	1	1	1	1	1	1	0
10096	2.00	14.43	203.00	1	1	1	1	1	1	0
10097	1.23	14.43	203.00	1	1	1	1	1	1	0
10098	0.11	14.43	203.00	1	1	1	1	1	1	0
10099	0.11	14.32	203.00	1	1	1	1	1	1	0
10100	0.11	13.72	203.00	1	1	1	1	1	1	0
10101	0.11	6.94	203.00	1	1	1	1	1	1	0

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
10102	0.11	2.37	203.00	1	1	1	1	1	1	0
10103	0.11	1.97	203.00	1	1	1	1	1	1	0
10104	0.11	1.20	203.00	1	1	1	1	1	1	0

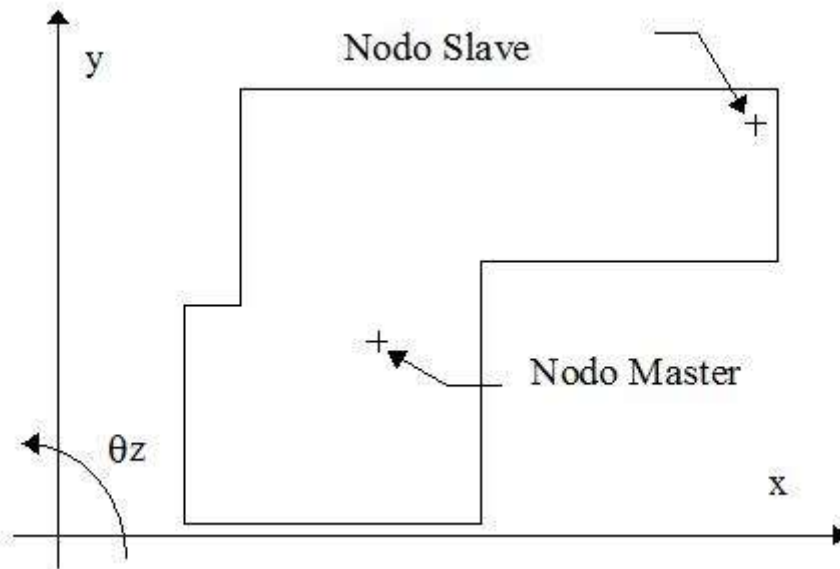
Dati relativi ai solai della struttura

Convenzioni adottate

Nel seguito con la dizione *solai non* sono individuati i solai che effettivamente verranno realizzati nella struttura bensì gli orizzontamenti ai quali appartengono nodi per i quali vale l'ipotesi di impalcato infinitamente rigido.

Seguendo tale ipotesi di calcolo, le componenti di spostamento del singolo nodo di impalcato vengono in parte riferite a quelle di un nodo *master*, solitamente coincidente con il centro di massa dell'impalcato. In particolare le componenti di spostamento nodale sono così definite:

Componente di spostamento	espressa da
U_x	$U_{xMaster} - \theta_{zMaster} \times (Y_{Master} - Y_{Nodo})$
U_y	$U_{yMaster} + \theta_{zMaster} \times (X_{Master} - X_{Nodo})$
U_z	U_{zNodo}
θ_x	θ_{xNodo}
θ_y	θ_{yNodo}
θ_z	$\theta_{zMaster}$



Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m ²]
1	16.97	10.78	3.00	19412.3	2418730.3

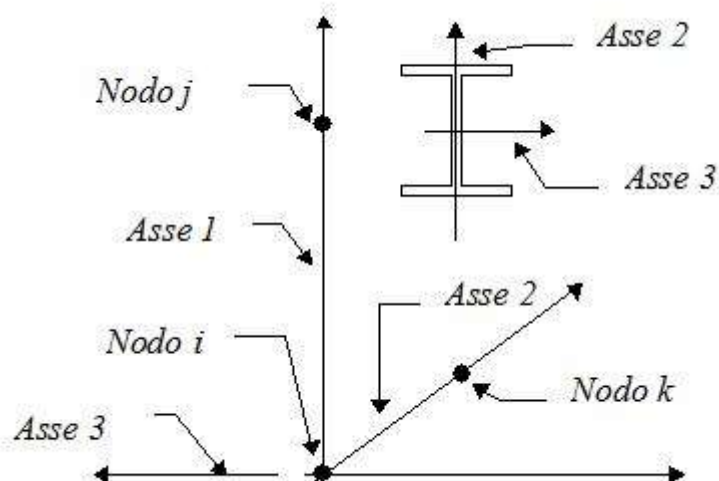
Elementi tipo pilastro

Convenzioni adottate

Ogni elemento tipo pilastro viene identificato da:

- Il nodo iniziale **i**;
- Il nodo finale **j**;
- Il nodo **k** che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale del pilastro risulta quindi essere così disposta:



Sistema di riferimento locale

Vengono riportati i valori di efficacia dei vincoli flessionali alle estremità dell'elemento (variabili fra lo **0%** e il **100%**), nei due piani **1-2** e **1-3** del pilastro in corrispondenza dei nodi, dando quindi la possibilità di considerare aste non perfettamente incastrate alle estremità (coefficienti **Vi12 - Vj12 - Vi13 - Vj13**).

In generale, se non diversamente disposto, l'asse 2 coincide, per i pilastri, con l'asse **y** globale e pertanto la disposizione della sezione coincide con quella che si avrebbe in una vista in pianta.

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm ²]	ν	alfa [1/°C]	Peso Specifico [kg/m ³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio
3	71152.0	0.120	0.000010	1220.0	Cls pannelli

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Rett.	B= 10 H= 24 [cm]
5	1	Rett.	B= 30 H= 60 [cm] ARCHITRAVE INGRESSO
6	2	HEB 120	

Caratteristiche Inerziali:

Sezione	Materiale	Area [cm ²]	Jt [cm ⁴]	J2 [cm ⁴]	J3 [cm ⁴]	J23 [cm ⁴]	Xx	Xy
1	1	240.00	6101	11520	2000	0	1.2	1.2
5	1	1800.00	370716	540000	135000	-0	1.2	1.2
6	2	34.06	14	865	318	0	4.1	1.3

Piano	Pilastro	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
0	1	1	101	10017	2	6	3.00	100	100	100	100
0	2	2	102	10016	2	6	3.00	100	100	100	100
0	3	3	103	10008	2	6	3.00	100	100	100	100
0	4	4	104	10009	2	6	3.00	100	100	100	100
0	5	5	105	10010	2	6	3.00	100	100	100	100
0	6	6	106	10014	2	6	3.00	100	100	100	100
0	7	7	107	10013	2	6	3.00	100	100	100	100
0	8	8	108	10012	2	6	3.00	100	100	100	100
0	9	9	109	10015	2	6	3.00	100	100	100	100
0	10	10	110	10011	2	6	3.00	100	100	100	100

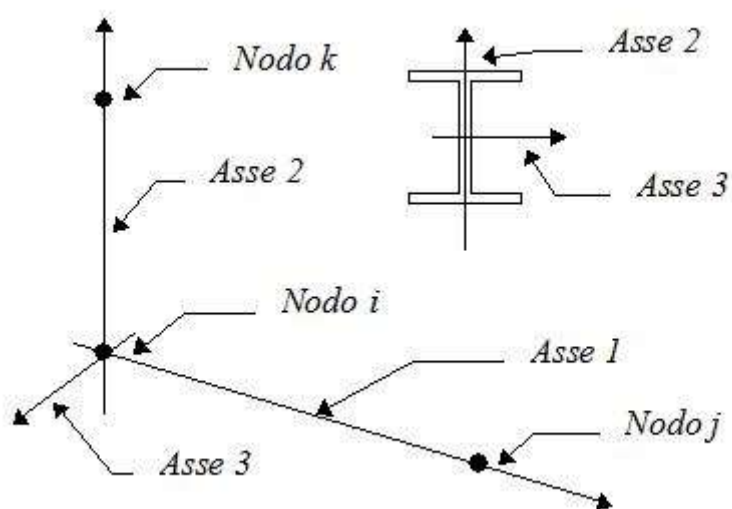
Elementi tipo trave

Convenzioni adottate

Ogni elemento tipo trave viene identificato da:

- Il nodo iniziale **i**;
- Il nodo finale **j**;
- Il nodo **k** che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale della trave risulta essere così disposta:



Vengono riportati i valori di efficacia dei vincoli alle estremità dello elemento (variabili fra 0 e 100%), nei due piani **1-2** e **1-3** della trave in corrispondenza dei nodi, dando quindi la possibilità di considerare aste non perfettamente incastrate (coefficienti **Vi12, Vj12, Vi13, Vj13**).

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm ²]	ν	alfa [1/°C]	Peso Specifico [kg/m ³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio
3	71152.0	0.120	0.000010	1220.0	Cls pannelli

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Rett.	B= 10 H= 24 [cm] trave di bordo
4	2	Rett.	B= 1 H= 5 [cm]
5	1	Rett.	B= 30 H= 60 [cm] ARCHITRAVE INGRESSO
7	1	Rett.	B= 30 H= 24 [cm] REP

Caratteristiche Inerziali:

Sezione	Materiale	Area [cm ²]	Jt [cm ⁴]	J2 [cm ⁴]	J3 [cm ⁴]	J23 [cm ⁴]	Xx	Xy
1	1	240.00	6101	11520	2000	0	1.2	1.2
4	2	5.00	2	10	0	0	1.2	1.2
5	1	1800.00	370716	540000	135000	-0	1.2	1.2
7	1	720.00	68274	34560	54000	0	1.2	1.2

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
101	1	121	111	10018	1	1	0.37	100	100	100	100
101	2	111	122	10018	1	1	0.37	100	100	100	100
101	3	122	123	10018	1	1	0.37	100	100	100	100
101	4	123	124	10018	1	1	0.37	100	100	100	100
101	5	124	125	10018	1	1	0.37	100	100	100	100
101	6	125	126	10018	1	1	0.37	100	100	100	100
101	7	126	127	10018	1	1	0.37	100	100	100	100
101	8	127	128	10018	1	1	0.37	100	100	100	100
101	9	128	112	10018	1	1	0.37	100	100	100	100
101	10	112	129	10018	1	1	0.37	100	100	100	100
101	11	129	130	10018	1	1	0.10	100	100	100	100
101	12	130	131	10018	1	1	0.27	100	100	100	100
101	13	131	132	10018	1	1	0.28	100	100	100	100
101	14	132	153	10019	1	1	0.38	100	100	100	100
101	15	153	154	10020	1	1	0.38	100	100	100	100
101	16	154	133	10020	1	1	0.38	100	100	100	100
101	17	133	155	10021	1	1	0.40	100	100	100	100
101	18	155	156	10020	1	1	0.40	100	100	100	100
101	19	156	134	10022	1	1	0.40	100	100	100	100
101	20	134	157	10023	1	1	0.38	100	100	100	100
101	21	157	158	10022	1	1	0.38	100	100	100	100
101	22	158	135	10024	1	1	0.38	100	100	100	100
101	23	135	136	10023	1	1	0.37	100	100	100	100
101	24	136	137	10023	1	1	0.37	100	100	100	100
102	1	119	120	10047	1	1	0.37	100	100	100	100
102	2	120	138	10048	1	1	0.37	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
102	3	138	159	10047	1	1	0.38	100	100	100	100
102	4	159	160	10024	1	1	0.38	100	100	100	100
102	5	160	139	10049	1	1	0.38	100	100	100	100
102	6	139	161	10050	1	1	0.40	100	100	100	100
102	7	161	162	10049	1	1	0.40	100	100	100	100
102	8	162	140	10051	1	1	0.40	100	100	100	100
102	9	140	163	10052	1	1	0.38	100	100	100	100
102	10	163	164	10051	1	1	0.38	100	100	100	100
102	11	164	141	10053	1	1	0.38	100	100	100	100
102	12	141	142	10052	1	1	0.28	100	100	100	100
102	13	142	143	10052	1	1	0.27	100	100	100	100
102	14	143	144	10052	1	1	0.10	100	100	100	100
102	15	144	113	10052	1	1	0.37	100	100	100	100
102	16	113	145	10052	1	1	0.37	100	100	100	100
102	17	145	146	10052	1	1	0.37	100	100	100	100
102	18	146	147	10052	1	1	0.37	100	100	100	100
102	19	147	148	10052	1	1	0.37	100	100	100	100
102	20	148	149	10052	1	1	0.37	100	100	100	100
102	21	149	150	10052	1	1	0.37	100	100	100	100
102	22	150	151	10052	1	1	0.37	100	100	100	100
102	23	151	114	10052	1	1	0.37	100	100	100	100
102	24	114	152	10052	1	1	0.37	100	100	100	100
103	1	243	101	10004	1	7	4.29	0	100	0	100
103	2	101	102	10004	1	7	4.12	100	100	100	100
103	3	102	244	10004	1	7	0.17	100	0	100	0
103	4	244	245	10005	1	1	0.43	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
103	5	245	246	10004	1	1	0.43	100	100	100	100
103	6	246	247	10004	1	1	0.43	100	100	100	100
103	7	247	248	10004	1	1	0.43	100	100	100	100
103	8	248	266	10027	1	1	0.38	100	100	100	100
103	9	266	267	10027	1	1	0.38	100	100	100	100
103	10	267	249	10028	1	1	0.38	100	100	100	100
103	11	249	250	10027	1	1	0.27	100	100	100	100
103	12	250	251	10027	1	1	0.27	100	100	100	100
103	13	251	252	10027	1	1	0.10	100	100	100	100
103	14	252	253	10027	1	1	0.28	100	100	100	100
103	15	253	254	10027	1	1	0.27	100	100	100	100
103	16	254	268	10029	1	1	0.38	100	100	100	100
103	17	268	269	10029	1	1	0.38	100	100	100	100
103	18	269	255	10030	1	1	0.38	100	100	100	100
103	19	255	270	10031	1	1	0.40	100	100	100	100
103	20	270	271	10031	1	1	0.40	100	100	100	100
103	21	271	256	10032	1	1	0.40	100	100	100	100
103	22	256	272	10033	1	1	0.38	100	100	100	100
103	23	272	273	10033	1	1	0.38	100	100	100	100
103	24	273	257	10034	1	1	0.38	100	100	100	100
103	25	257	258	10033	1	1	0.20	100	100	100	100
103	26	258	259	10034	1	1	0.20	100	100	100	100
103	27	259	260	10034	1	1	0.11	100	100	100	100
103	28	260	103	10004	1	7	0.17	0	100	0	100
103	29	103	104	10004	1	7	4.12	100	100	100	100
103	30	104	105	10002	1	7	4.12	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
103	31	105	274	10005	1	7	0.17	100	0	100	0
103	32	274	275	10003	1	5	3.34	0	0	0	0
103	33	275	261	10056	1	1	0.11	100	100	100	100
103	34	261	117	10035	1	1	0.49	100	100	100	100
103	35	117	262	10035	1	1	0.49	100	100	100	100
103	36	262	276	10057	1	1	0.49	100	100	100	100
103	37	276	277	10056	1	1	0.49	100	100	100	100
103	38	277	263	10058	1	1	0.49	100	100	100	100
103	39	263	278	10059	1	1	0.49	100	100	100	100
103	40	278	279	10058	1	1	0.49	100	100	100	100
103	41	279	264	10060	1	1	0.49	100	100	100	100
103	42	264	118	10059	1	1	0.49	100	100	100	100
103	43	118	265	10059	1	1	0.49	100	100	100	100
104	1	340	339	10097	1	1	0.37	100	100	100	100
104	2	341	340	10097	1	1	0.37	100	100	100	100
104	3	371	341	10097	1	1	0.38	100	100	100	100
104	4	372	371	10095	1	1	0.38	100	100	100	100
104	5	342	372	10096	1	1	0.38	100	100	100	100
104	6	373	342	10095	1	1	0.40	100	100	100	100
104	7	374	373	10094	1	1	0.40	100	100	100	100
104	8	343	374	10094	1	1	0.40	100	100	100	100
104	9	375	343	10093	1	1	0.38	100	100	100	100
104	10	376	375	10092	1	1	0.38	100	100	100	100
104	11	344	376	10092	1	1	0.38	100	100	100	100
104	12	345	344	10090	1	1	0.28	100	100	100	100
104	13	346	345	10090	1	1	0.27	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
104	14	347	346	10090	1	1	0.10	100	100	100	100
104	15	348	347	10090	1	1	0.28	100	100	100	100
104	16	349	348	10090	1	1	0.28	100	100	100	100
104	17	377	349	10091	1	1	0.38	100	100	100	100
104	18	378	377	10090	1	1	0.38	100	100	100	100
104	19	350	378	10090	1	1	0.38	100	100	100	100
104	20	351	350	10089	1	1	0.29	100	100	100	100
104	21	379	351	10089	1	1	0.29	100	100	100	100
104	22	352	379	10088	1	1	0.29	100	100	100	100
104	23	380	352	10087	1	1	0.29	100	100	100	100
104	24	353	380	10086	1	1	0.29	100	100	100	100
104	25	354	353	10075	1	1	0.29	100	100	100	100
104	26	354	109	10007	1	7	0.17	0	100	0	100
104	27	109	106	10001	1	7	4.12	100	100	100	100
104	28	106	107	10006	1	7	4.12	100	100	100	100
104	29	107	337	10006	1	7	0.17	100	0	100	0
104	30	355	337	10075	1	1	0.11	100	100	100	100
104	31	356	355	10075	1	1	0.20	100	100	100	100
104	32	357	356	10073	1	1	0.20	100	100	100	100
104	33	381	357	10074	1	1	0.38	100	100	100	100
104	34	382	381	10073	1	1	0.38	100	100	100	100
104	35	358	382	10073	1	1	0.38	100	100	100	100
104	36	383	358	10072	1	1	0.40	100	100	100	100
104	37	384	383	10070	1	1	0.40	100	100	100	100
104	38	359	384	10071	1	1	0.40	100	100	100	100
104	39	385	359	10070	1	1	0.38	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
104	40	386	385	10069	1	1	0.38	100	100	100	100
104	41	360	386	10069	1	1	0.38	100	100	100	100
104	42	361	360	10066	1	1	0.27	100	100	100	100
104	43	362	361	10066	1	1	0.28	100	100	100	100
104	44	363	362	10068	1	1	0.10	100	100	100	100
104	45	364	363	10066	1	1	0.28	100	100	100	100
104	46	365	364	10066	1	1	0.27	100	100	100	100
104	47	387	365	10068	1	1	0.38	100	100	100	100
104	48	388	387	10067	1	1	0.38	100	100	100	100
104	49	366	388	10067	1	1	0.38	100	100	100	100
104	50	367	366	10066	1	1	0.28	100	100	100	100
104	51	389	367	10067	1	1	0.28	100	100	100	100
104	52	368	389	10066	1	1	0.28	100	100	100	100
104	53	390	368	10065	1	1	0.28	100	100	100	100
104	54	369	390	10006	1	1	0.28	100	100	100	100
104	55	370	369	10007	1	1	0.28	100	100	100	100
104	56	370	110	10001	1	7	0.17	0	100	0	100
104	57	110	108	10000	1	7	4.12	100	100	100	100
104	58	108	338	10006	1	7	4.29	100	0	100	0
105	1	473	472	10063	1	1	0.46	100	100	100	100
105	2	474	473	10063	1	1	0.46	100	100	100	100
105	3	475	474	10063	1	1	0.46	100	100	100	100
105	4	476	475	10063	1	1	0.46	100	100	100	100
105	5	477	476	10063	1	1	0.46	100	100	100	100
105	6	478	477	10063	1	1	0.46	100	100	100	100
105	7	479	478	10063	1	1	0.46	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
105	8	480	479	10063	1	1	0.46	100	100	100	100
105	9	481	480	10063	1	1	0.10	100	100	100	100
105	10	482	481	10063	1	1	0.27	100	100	100	100
105	11	483	482	10063	1	1	0.27	100	100	100	100
105	12	484	483	10063	1	1	0.38	100	100	100	100
105	13	485	484	10063	1	1	0.38	100	100	100	100
105	14	486	485	10063	1	1	0.38	100	100	100	100
105	15	487	486	10063	1	1	0.40	100	100	100	100
105	16	488	487	10063	1	1	0.40	100	100	100	100
105	17	489	488	10063	1	1	0.40	100	100	100	100
105	18	490	489	10063	1	1	0.38	100	100	100	100
105	19	491	490	10063	1	1	0.38	100	100	100	100
105	20	492	491	10063	1	1	0.38	100	100	100	100
105	21	493	492	10063	1	1	0.37	100	100	100	100
105	22	494	493	10063	1	1	0.37	100	100	100	100
106	1	496	495	10062	1	1	0.25	100	100	100	100
106	2	497	496	10062	1	1	0.25	100	100	100	100
106	3	498	497	10062	1	1	0.25	100	100	100	100
106	4	499	498	10062	1	1	0.38	100	100	100	100
106	5	500	499	10062	1	1	0.38	100	100	100	100
106	6	501	500	10062	1	1	0.38	100	100	100	100
106	7	502	501	10062	1	1	0.40	100	100	100	100
106	8	503	502	10062	1	1	0.40	100	100	100	100
106	9	504	503	10062	1	1	0.40	100	100	100	100
106	10	505	504	10062	1	1	0.38	100	100	100	100
106	11	506	505	10062	1	1	0.38	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
106	12	507	506	10062	1	1	0.38	100	100	100	100
106	13	508	507	10062	1	1	0.27	100	100	100	100
106	14	509	508	10062	1	1	0.27	100	100	100	100
106	15	510	509	10062	1	1	0.10	100	100	100	100
106	16	511	510	10062	1	1	0.31	100	100	100	100
106	17	512	511	10062	1	1	0.31	100	100	100	100
106	18	513	512	10062	1	1	0.31	100	100	100	100
106	19	514	513	10062	1	1	0.31	100	100	100	100
106	20	515	514	10062	1	1	0.31	100	100	100	100
106	21	516	515	10062	1	1	0.31	100	100	100	100
106	22	517	516	10062	1	1	0.31	100	100	100	100
106	23	518	517	10062	1	1	0.31	100	100	100	100
106	24	519	518	10062	1	1	0.31	100	100	100	100
106	25	520	519	10062	1	1	0.31	100	100	100	100
106	26	521	520	10062	1	1	0.31	100	100	100	100
106	27	522	521	10062	1	1	0.31	100	100	100	100
107	1	165	121	10104	1	1	0.11	100	100	100	100
107	2	169	165	10103	1	1	0.30	100	100	100	100
107	3	173	169	10103	1	1	0.30	100	100	100	100
107	4	177	173	10104	1	1	0.38	100	100	100	100
107	5	181	177	10103	1	1	0.38	100	100	100	100
107	6	185	181	10103	1	1	0.38	100	100	100	100
107	7	190	185	10102	1	1	0.40	100	100	100	100
107	8	194	190	10100	1	1	0.40	100	100	100	100
107	9	197	194	10100	1	1	0.40	100	100	100	100
107	10	201	197	10100	1	1	0.38	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
107	11	205	201	10100	1	1	0.38	100	100	100	100
107	12	209	205	10100	1	1	0.38	100	100	100	100
107	13	213	209	10100	1	1	0.40	100	100	100	100
107	14	217	213	10100	1	1	0.40	100	100	100	100
107	15	221	217	10100	1	1	0.40	100	100	100	100
107	16	225	221	10100	1	1	0.38	100	100	100	100
107	17	229	225	10100	1	1	0.38	100	100	100	100
107	18	233	229	10004	1	1	0.38	100	100	100	100
107	19	240	233	10101	1	1	0.27	100	100	100	100
107	20	243	240	10004	1	1	0.24	100	100	100	100
107	21	280	243	10004	1	1	0.10	100	100	100	100
107	22	285	280	10004	1	1	0.32	100	100	100	100
107	23	288	285	10004	1	1	0.27	100	100	100	100
107	24	292	288	10100	1	1	0.38	100	100	100	100
107	25	296	292	10100	1	1	0.38	100	100	100	100
107	26	300	296	10100	1	1	0.38	100	100	100	100
107	27	306	300	10100	1	1	0.40	100	100	100	100
107	28	310	306	10100	1	1	0.40	100	100	100	100
107	29	312	310	10100	1	1	0.40	100	100	100	100
107	30	314	312	10100	1	1	0.38	100	100	100	100
107	31	316	314	10100	1	1	0.38	100	100	100	100
107	32	318	316	10100	1	1	0.38	100	100	100	100
107	33	318	320	10100	1	1	0.40	100	100	100	100
107	34	322	320	10100	1	1	0.40	100	100	100	100
107	35	324	322	10100	1	1	0.40	100	100	100	100
107	36	326	324	10100	1	1	0.38	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
107	37	328	326	10100	1	1	0.38	100	100	100	100
107	38	330	328	10100	1	1	0.38	100	100	100	100
107	39	333	330	10099	1	1	0.30	100	100	100	100
107	40	335	333	10099	1	1	0.30	100	100	100	100
107	41	339	335	10098	1	1	0.11	100	100	100	100
108	1	137	166	10025	1	1	0.11	100	100	100	100
108	2	166	115	10026	1	1	0.29	100	100	100	100
108	3	115	172	10026	1	1	0.30	100	100	100	100
108	4	172	176	10026	1	1	0.30	100	100	100	100
108	5	176	180	10026	1	1	0.29	100	100	100	100
108	6	180	183	10026	1	1	0.30	100	100	100	100
108	7	183	187	10026	1	1	0.29	100	100	100	100
108	8	187	189	10026	1	1	0.30	100	100	100	100
108	9	189	193	10026	1	1	0.29	100	100	100	100
108	10	193	116	10026	1	1	0.30	100	100	100	100
108	11	116	198	10026	1	1	0.30	100	100	100	100
108	12	198	202	10026	1	1	0.38	100	100	100	100
108	13	202	206	10026	1	1	0.38	100	100	100	100
108	14	206	210	10026	1	1	0.38	100	100	100	100
108	15	210	214	10026	1	1	0.40	100	100	100	100
108	16	214	218	10026	1	1	0.40	100	100	100	100
108	17	218	222	10026	1	1	0.40	100	100	100	100
108	18	222	226	10026	1	1	0.38	100	100	100	100
108	19	226	230	10026	1	1	0.38	100	100	100	100
108	20	230	234	10026	1	1	0.38	100	100	100	100
108	21	234	237	10026	1	1	0.20	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
108	22	237	241	10026	1	1	0.20	100	100	100	100
108	23	241	244	10026	1	1	0.11	100	100	100	100
109	1	391	354	10084	1	1	0.11	100	100	100	100
109	2	395	391	10084	1	1	0.20	100	100	100	100
109	3	395	397	10084	1	1	0.20	100	100	100	100
109	4	401	397	10085	1	1	0.38	100	100	100	100
109	5	405	401	10083	1	1	0.38	100	100	100	100
109	6	409	405	10084	1	1	0.38	100	100	100	100
109	7	414	409	10083	1	1	0.40	100	100	100	100
109	8	418	414	10081	1	1	0.40	100	100	100	100
109	9	422	418	10082	1	1	0.40	100	100	100	100
109	10	427	422	10081	1	1	0.38	100	100	100	100
109	11	431	427	10080	1	1	0.38	100	100	100	100
109	12	435	431	10079	1	1	0.38	100	100	100	100
109	13	439	435	10078	1	1	0.37	100	100	100	100
109	14	442	439	10078	1	1	0.37	100	100	100	100
109	15	446	442	10078	1	1	0.37	100	100	100	100
109	16	451	446	10078	1	1	0.37	100	100	100	100
109	17	455	451	10078	1	1	0.37	100	100	100	100
109	18	460	455	10078	1	1	0.37	100	100	100	100
109	19	465	460	10078	1	1	0.37	100	100	100	100
109	20	468	465	10078	1	1	0.37	100	100	100	100
109	21	472	468	10077	1	1	0.11	100	100	100	100
110	1	168	119	10045	1	1	0.11	100	100	100	100
110	2	170	168	10045	1	1	0.30	100	100	100	100
110	3	174	170	10045	1	1	0.30	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
110	4	178	174	10046	1	1	0.38	100	100	100	100
110	5	182	178	10044	1	1	0.38	100	100	100	100
110	6	186	182	10045	1	1	0.38	100	100	100	100
110	7	191	186	10044	1	1	0.40	100	100	100	100
110	8	195	191	10042	1	1	0.40	100	100	100	100
110	9	199	195	10043	1	1	0.40	100	100	100	100
110	10	203	199	10042	1	1	0.38	100	100	100	100
110	11	207	203	10040	1	1	0.38	100	100	100	100
110	12	211	207	10041	1	1	0.38	100	100	100	100
110	13	215	211	10040	1	1	0.40	100	100	100	100
110	14	219	215	10038	1	1	0.40	100	100	100	100
110	15	223	219	10039	1	1	0.40	100	100	100	100
110	16	227	223	10038	1	1	0.38	100	100	100	100
110	17	231	227	10037	1	1	0.38	100	100	100	100
110	18	235	231	10036	1	1	0.38	100	100	100	100
110	19	239	235	10035	1	1	0.26	100	100	100	100
110	20	260	239	10035	1	1	0.25	100	100	100	100
111	1	337	394	10076	1	1	0.26	100	100	100	100
111	2	394	398	10076	1	1	0.26	100	100	100	100
111	3	398	402	10076	1	1	0.38	100	100	100	100
111	4	402	406	10076	1	1	0.38	100	100	100	100
111	5	406	410	10076	1	1	0.38	100	100	100	100
111	6	410	415	10076	1	1	0.40	100	100	100	100
111	7	415	419	10076	1	1	0.40	100	100	100	100
111	8	419	423	10076	1	1	0.40	100	100	100	100
111	9	423	428	10076	1	1	0.38	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
111	10	428	432	10076	1	1	0.38	100	100	100	100
111	11	432	436	10076	1	1	0.38	100	100	100	100
111	12	436	440	10076	1	1	0.40	100	100	100	100
111	13	440	444	10076	1	1	0.40	100	100	100	100
111	14	444	448	10076	1	1	0.40	100	100	100	100
111	15	448	452	10076	1	1	0.38	100	100	100	100
111	16	452	457	10076	1	1	0.38	100	100	100	100
111	17	457	462	10076	1	1	0.38	100	100	100	100
111	18	462	466	10076	1	1	0.30	100	100	100	100
111	19	466	469	10076	1	1	0.30	100	100	100	100
111	20	469	494	10076	1	1	0.11	100	100	100	100
112	1	152	167	10054	1	1	0.11	100	100	100	100
112	2	167	171	10054	1	1	0.37	100	100	100	100
112	3	171	175	10054	1	1	0.37	100	100	100	100
112	4	175	179	10054	1	1	0.37	100	100	100	100
112	5	179	184	10054	1	1	0.37	100	100	100	100
112	6	184	188	10054	1	1	0.37	100	100	100	100
112	7	188	192	10054	1	1	0.37	100	100	100	100
112	8	192	196	10054	1	1	0.37	100	100	100	100
112	9	196	200	10054	1	1	0.37	100	100	100	100
112	10	200	204	10054	1	1	0.38	100	100	100	100
112	11	204	208	10054	1	1	0.38	100	100	100	100
112	12	208	212	10054	1	1	0.38	100	100	100	100
112	13	212	216	10054	1	1	0.40	100	100	100	100
112	14	216	220	10054	1	1	0.40	100	100	100	100
112	15	220	224	10054	1	1	0.40	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
112	16	224	228	10054	1	1	0.38	100	100	100	100
112	17	228	232	10054	1	1	0.38	100	100	100	100
112	18	232	236	10054	1	1	0.38	100	100	100	100
112	19	236	238	10054	1	1	0.20	100	100	100	100
112	20	238	242	10054	1	1	0.21	100	100	100	100
112	21	242	274	10054	1	1	0.10	100	100	100	100
112	22	274	282	10054	1	1	0.31	100	100	100	100
112	23	282	286	10054	1	1	0.32	100	100	100	100
112	24	286	290	10054	1	1	0.32	100	100	100	100
112	25	290	294	10054	1	1	0.32	100	100	100	100
112	26	294	298	10054	1	1	0.32	100	100	100	100
112	27	298	302	10054	1	1	0.32	100	100	100	100
112	28	302	304	10054	1	1	0.32	100	100	100	100
112	29	304	308	10054	1	1	0.32	100	100	100	100
113	1	392	370	10064	1	1	0.11	100	100	100	100
113	2	396	392	10064	1	1	0.20	100	100	100	100
113	3	399	396	10064	1	1	0.20	100	100	100	100
113	4	403	399	10064	1	1	0.38	100	100	100	100
113	5	407	403	10064	1	1	0.38	100	100	100	100
113	6	411	407	10064	1	1	0.38	100	100	100	100
113	7	416	411	10006	1	1	0.44	100	100	100	100
113	8	420	416	10006	1	1	0.44	100	100	100	100
113	9	425	420	10006	1	1	0.44	100	100	100	100
113	10	429	425	10006	1	1	0.44	100	100	100	100
113	11	434	429	10006	1	1	0.44	100	100	100	100
113	12	438	434	10006	1	1	0.44	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
113	13	443	438	10006	1	1	0.44	100	100	100	100
113	14	447	443	10006	1	1	0.44	100	100	100	100
113	15	453	447	10006	1	1	0.44	100	100	100	100
113	16	458	453	10006	1	1	0.44	100	100	100	100
113	17	463	458	10006	1	1	0.44	100	100	100	100
113	18	470	463	10006	1	1	0.44	100	100	100	100
113	19	495	470	10063	1	1	0.11	100	100	100	100
114	1	283	275	10055	1	1	0.32	100	100	100	100
114	2	287	283	10003	1	1	0.32	100	100	100	100
114	3	291	287	10003	1	1	0.32	100	100	100	100
114	4	295	291	10003	1	1	0.32	100	100	100	100
114	5	299	295	10003	1	1	0.32	100	100	100	100
114	6	303	299	10003	1	1	0.32	100	100	100	100
114	7	305	303	10003	1	1	0.32	100	100	100	100
114	8	309	305	10003	1	1	0.32	100	100	100	100
115	1	265	281	10061	1	1	0.11	100	100	100	100
115	2	281	284	10061	1	1	0.30	100	100	100	100
115	3	284	289	10061	1	1	0.30	100	100	100	100
115	4	289	293	10061	1	1	0.38	100	100	100	100
115	5	293	297	10061	1	1	0.38	100	100	100	100
115	6	297	301	10061	1	1	0.38	100	100	100	100
115	7	301	307	10061	1	1	0.40	100	100	100	100
115	8	307	311	10061	1	1	0.40	100	100	100	100
115	9	311	313	10061	1	1	0.40	100	100	100	100
115	10	313	315	10061	1	1	0.38	100	100	100	100
115	11	315	317	10061	1	1	0.38	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
115	12	317	319	10061	1	1	0.38	100	100	100	100
115	13	319	321	10061	1	1	0.40	100	100	100	100
115	14	321	323	10061	1	1	0.40	100	100	100	100
115	15	323	325	10061	1	1	0.40	100	100	100	100
115	16	325	327	10061	1	1	0.38	100	100	100	100
115	17	327	329	10061	1	1	0.38	100	100	100	100
115	18	329	331	10061	1	1	0.38	100	100	100	100
115	19	331	332	10061	1	1	0.27	100	100	100	100
115	20	332	334	10061	1	1	0.28	100	100	100	100
115	21	334	336	10061	1	1	0.05	100	100	100	100
115	22	336	338	10061	1	1	0.09	100	100	100	100
115	23	338	393	10061	1	1	0.21	100	100	100	100
115	24	393	400	10061	1	1	0.30	100	100	100	100
115	25	400	404	10061	1	1	0.38	100	100	100	100
115	26	404	408	10061	1	1	0.38	100	100	100	100
115	27	408	412	10061	1	1	0.38	100	100	100	100
115	28	412	413	10061	1	1	0.30	100	100	100	100
115	29	413	417	10061	1	1	0.30	100	100	100	100
115	30	417	421	10061	1	1	0.30	100	100	100	100
115	31	421	424	10061	1	1	0.30	100	100	100	100
115	32	424	426	10061	1	1	0.30	100	100	100	100
115	33	426	430	10061	1	1	0.30	100	100	100	100
115	34	430	433	10061	1	1	0.30	100	100	100	100
115	35	433	437	10061	1	1	0.30	100	100	100	100
115	36	437	441	10061	1	1	0.38	100	100	100	100
115	37	441	445	10061	1	1	0.38	100	100	100	100

Travata	Trave	Nodo i	Nodo j	Nodo k	Materiale	Sezione	Luce [m]	Vi12	Vj12	Vi13	Vj13
115	38	445	449	10061	1	1	0.38	100	100	100	100
115	39	449	450	10061	1	1	0.22	100	100	100	100
115	40	450	454	10061	1	1	0.22	100	100	100	100
115	41	454	456	10061	1	1	0.22	100	100	100	100
115	42	456	459	10061	1	1	0.22	100	100	100	100
115	43	459	461	10061	1	1	0.22	100	100	100	100
115	44	461	464	10061	1	1	0.22	100	100	100	100
115	45	464	467	10061	1	1	0.22	100	100	100	100
115	46	467	471	10061	1	1	0.22	100	100	100	100
115	47	471	522	10061	1	1	0.11	100	100	100	100

Condizioni e combinazioni di carico

Convenzioni adottate

Nel seguito vengono riportate il numero di condizioni di carico statiche e dinamiche che sollecitano la struttura. Si noti che:

- Per quanto riguarda le condizioni di carico dinamiche, il programma assimila ogni direzione di ingresso del sisma, definita dal progettista, ad una condizione di carico. Pertanto qualora agiscano sulla struttura n condizioni di carico statiche e il progettista abbia supposto che la struttura venga sollecitata da un sisma entrante in m direzioni, la struttura stessa viene considerata del programma come soggetta ad $n + m$ condizioni di carico.
- Le combinazioni di carico, definite dal progettista, combinano fra loro le $n + m$ condizioni di carico ognuna partecipante alla combinazione i -esima secondo i fattori di partecipazione nel seguito riportati. N.B.: se la condizione j -esima ha fattore di partecipazione unitario, allora partecipa per intero alla combinazione i -esima.
- Le prime n condizioni sono sempre statiche mentre sono di origine dinamica le (eventuali) condizioni da $n+1$ a $n+m$.

Condizioni di carico definite:

Condizione

1	Cond. 1
---	---------

Condizione

2	Cond. 2
3	Cond. 3
4	Cond. 4
5	Cond. 5
6	Sisma 0SLD
7	Sisma 0SLD
8	Sisma 90SLD
9	Sisma 90SLD
10	Sisma 180SLD
11	Sisma 180SLD
12	Sisma 270SLD
13	Sisma 270SLD

Combinazioni agli Stati Limite di Danno**Combinazione di carico numero**

1	Sisma 0 / 90
2	Sisma 0 / 270
3	Sisma 90 / 0
4	Sisma 90 / 180
5	Sisma 180 / 90
6	Sisma 180 / 270
7	Sisma 270 / 0
8	Sisma 270 / 180

Comb.\Cond 1 2 3 4 6 7 8 9 10 11 12 13

1	1	1	1	1	1	0.3			1	0.3		
2	1	1	1	1	1			0.3	1			0.3
3	1	1	1	1	0.3	1			0.3	1		
4	1	1	1	1		1	0.3			1	0.3	
5	1	1	1	1		0.3	1			0.3	1	
6	1	1	1	1			1	0.3			1	0.3
7	1	1	1	1	0.3			1	0.3			1
8	1	1	1	1			0.3	1			0.3	1

Carichi e coppie applicati ai solai

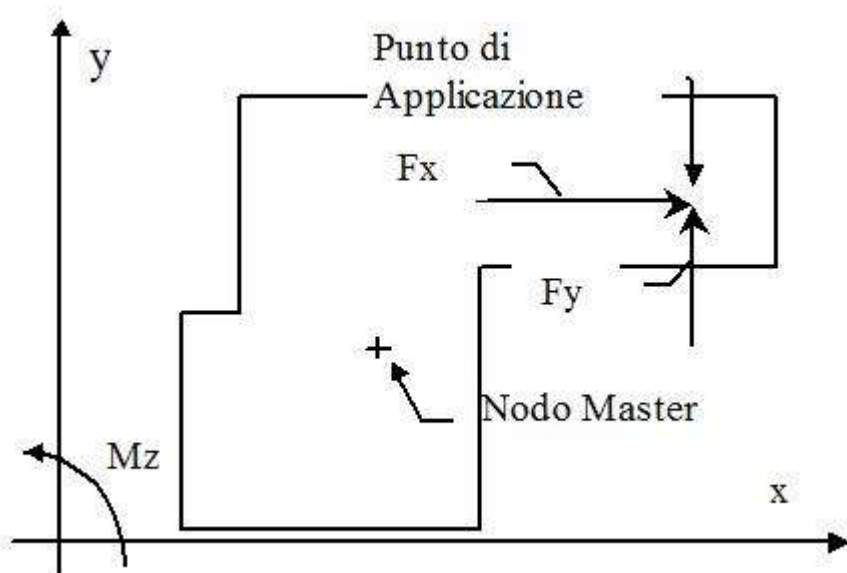
Convenzioni adottate

Seguendo l'ipotesi di piano infinitamente rigido le azioni agenti nel piano del solaio vengono trasformate dal codice di calcolo in azioni agenti nel cosiddetto *nodo master di solaio* secondo le trasformazioni seguenti:

$$F_{xMaster} = F_{xNodo}$$

$$F_{yMaster} = F_{yNodo}$$

$$M_{zMaster} = M_{zNodo} - F_{xNodo} (y_{App} - y_{Master}) + F_{yNodo} (x_{App} - x_{Master})$$



Nel seguito vengono riportati per ogni solaio, su cui agiscono carichi concentrati, le componenti del carico (F_x , F_y , M_z), le coordinate del punto di applicazione nel piano orizzontale (x , y) e la condizione di carico cui esse fanno riferimento.

Solaio	Condizione	Fx [kg]	Fy [kg]	Mz [kgm]	x Punto di applicazione [m]	y Punto di Applicazione [m]
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Carichi applicati agli elementi

Convenzioni adottate

I carichi applicati vengono raccolti nella tabella riportata alla fine del paragrafo e si intendono applicati nel sistema di riferimento locale dell'elemento.

Per la lettura della tabella si definiscono:

Nodol, Nodol

I nodi iniziale/finale dell'asta o lato dell'elemento cui afferisce il carico

L

La distanza fra i suddetti nodi.

qxi, ..., qzj

Le componenti di un carico distribuito costante o variabile linearmente iniziali (indice i) e finale (indice j).

xi, xj

Le distanze, misurate a partire dal Nodol, dei punti di applicazione dei carichi qxi..qzj relativi a carichi distribuiti applicati su porzioni di un'asta.

Px, ..., Pz xApp

Le componenti di un Carico Concentrato applicato a distanza xApp dal Nodol.

Mx, ..., Mz xApp

Le componenti di una Coppia Concentrata applicata a distanza xApp dal Nodol.

Var Termica Assiale, ..., Var Termica Farfalla 13

Le variazioni termiche (Assiali ed a Farfalla) misurate in gradi Celsius.

mxi, ..., mzj

Le componenti di coppie distribuite costanti o variabili linearmente iniziali (indice i) e finale (indice j).

qS_x, qS_y, qS_z

carichi, per unità di superficie, applicati su elementi superficiali o facce di elementi solidi

Peso Proprio

Il valore del carico derivante dal peso proprio dell'elemento

Carichi distribuiti

Nodo I	Nodo J	L [m]	Condizione di carico	xi [m]	qxi [kg/m]	qyi [kg/m]	qzi [kg/m]	xj [m]	qxj [kg/m]	qyj [kg/m]	qzj [kg/m]
121	111	0.37	1	0.00	-0.0	60.0	0.0	0.37	-0.0	60.0	0.0
1	101	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
111	122	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
2	102	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
122	123	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
3	103	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
123	124	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
4	104	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
124	125	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
5	105	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
125	126	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
6	106	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
126	127	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
7	107	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
127	128	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
8	108	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
128	112	0.37	1	0.00	-0.0	60.0	0.0	0.37	-0.0	60.0	0.0
9	109	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
112	129	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
10	110	3.00	1	0.00	26.7	0.0	0.0	3.00	26.7	0.0	0.0
129	130	0.10	1	0.00	0.0	60.0	0.0	0.10	0.0	60.0	0.0
130	131	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
131	132	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0

132	153	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
153	154	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
154	133	0.38	1	0.00	0.0	60.0	-0.0	0.38	0.0	60.0	-0.0
133	155	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
155	156	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
156	134	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
134	157	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
157	158	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
158	135	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
135	136	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
136	137	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
119	120	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
120	138	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
138	159	0.38	1	0.00	0.0	60.0	-0.0	0.38	0.0	60.0	-0.0
159	160	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
160	139	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
139	161	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
161	162	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
162	140	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
140	163	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
163	164	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
164	141	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
141	142	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
142	143	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
143	144	0.10	1	0.00	0.0	60.0	0.0	0.10	0.0	60.0	0.0
144	113	0.37	1	0.00	-0.0	60.0	0.0	0.37	-0.0	60.0	0.0
113	145	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
145	146	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0

146	147	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
147	148	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
148	149	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
149	150	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
150	151	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
151	114	0.37	1	0.00	-0.0	60.0	0.0	0.37	-0.0	60.0	0.0
114	152	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
243	101	4.29	1	0.00	0.0	180.0	0.0	4.29	0.0	180.0	0.0
101	102	4.12	1	0.00	0.0	180.0	0.0	4.12	0.0	180.0	0.0
102	244	0.17	1	0.00	0.0	180.0	0.0	0.17	0.0	180.0	0.0
244	245	0.43	1	0.00	0.0	60.0	0.0	0.43	0.0	60.0	0.0
245	246	0.43	1	0.00	0.0	60.0	0.0	0.43	0.0	60.0	0.0
246	247	0.43	1	0.00	0.0	60.0	0.0	0.43	0.0	60.0	0.0
247	248	0.43	1	0.00	0.0	60.0	0.0	0.43	0.0	60.0	0.0
248	266	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
266	267	0.38	1	0.00	0.0	60.0	-0.0	0.38	0.0	60.0	-0.0
267	249	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
249	250	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
250	251	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
251	252	0.10	1	0.00	0.0	60.0	0.0	0.10	0.0	60.0	0.0
252	253	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
253	254	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
254	268	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
268	269	0.38	1	0.00	0.0	60.0	-0.0	0.38	0.0	60.0	-0.0
269	255	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
255	270	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
270	271	0.40	1	0.00	0.0	60.0	-0.0	0.40	0.0	60.0	-0.0
271	256	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0

256	272	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
272	273	0.38	1	0.00	0.0	60.0	-0.0	0.38	0.0	60.0	-0.0
273	257	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
257	258	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
258	259	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
259	260	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
260	103	0.17	1	0.00	0.0	180.0	0.0	0.17	0.0	180.0	0.0
103	104	4.12	1	0.00	0.0	180.0	0.0	4.12	0.0	180.0	0.0
104	105	4.12	1	0.00	0.0	180.0	0.0	4.12	0.0	180.0	0.0
105	274	0.17	1	0.00	0.0	180.0	0.0	0.17	0.0	180.0	0.0
274	275	3.34	1	0.00	0.0	450.0	0.0	3.34	0.0	450.0	0.0
275	261	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
261	117	0.49	1	0.00	-0.0	60.0	0.0	0.49	-0.0	60.0	0.0
117	262	0.49	1	0.00	0.0	60.0	0.0	0.49	0.0	60.0	0.0
262	276	0.49	1	0.00	0.0	60.0	0.0	0.49	0.0	60.0	0.0
276	277	0.49	1	0.00	0.0	60.0	0.0	0.49	0.0	60.0	0.0
277	263	0.49	1	0.00	0.0	60.0	0.0	0.49	0.0	60.0	0.0
263	278	0.49	1	0.00	0.0	60.0	0.0	0.49	0.0	60.0	0.0
278	279	0.49	1	0.00	0.0	60.0	0.0	0.49	0.0	60.0	0.0
279	264	0.49	1	0.00	0.0	60.0	0.0	0.49	0.0	60.0	0.0
264	118	0.49	1	0.00	-0.0	60.0	0.0	0.49	-0.0	60.0	0.0
118	265	0.49	1	0.00	0.0	60.0	0.0	0.49	0.0	60.0	0.0
340	339	0.37	1	0.00	0.0	60.0	-0.0	0.37	0.0	60.0	-0.0
341	340	0.37	1	0.00	0.0	60.0	-0.0	0.37	0.0	60.0	-0.0
371	341	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
372	371	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
342	372	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
373	342	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0

374	373	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
343	374	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
375	343	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
376	375	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
344	376	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
345	344	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
346	345	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
347	346	0.10	1	0.00	0.0	60.0	0.0	0.10	0.0	60.0	0.0
348	347	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
349	348	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
377	349	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
378	377	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
350	378	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
351	350	0.29	1	0.00	0.0	60.0	-0.0	0.29	0.0	60.0	-0.0
379	351	0.29	1	0.00	0.0	60.0	0.0	0.29	0.0	60.0	0.0
352	379	0.29	1	0.00	0.0	60.0	0.0	0.29	0.0	60.0	0.0
380	352	0.29	1	0.00	0.0	60.0	0.0	0.29	0.0	60.0	0.0
353	380	0.29	1	0.00	0.0	60.0	0.0	0.29	0.0	60.0	0.0
354	353	0.29	1	0.00	0.0	60.0	0.0	0.29	0.0	60.0	0.0
354	109	0.17	1	0.00	0.0	180.0	0.0	0.17	0.0	180.0	0.0
109	106	4.12	1	0.00	0.0	180.0	0.0	4.12	0.0	180.0	0.0
106	107	4.12	1	0.00	0.0	180.0	0.0	4.12	0.0	180.0	0.0
107	337	0.17	1	0.00	0.0	180.0	0.0	0.17	0.0	180.0	0.0
355	337	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
356	355	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
357	356	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
381	357	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
382	381	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0

358	382	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
383	358	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
384	383	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
359	384	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
385	359	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
386	385	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
360	386	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
361	360	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
362	361	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
363	362	0.10	1	0.00	0.0	60.0	-0.0	0.10	0.0	60.0	-0.0
364	363	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
365	364	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
387	365	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
388	387	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
366	388	0.38	1	0.00	0.0	60.0	-0.0	0.38	0.0	60.0	-0.0
367	366	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
389	367	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
368	389	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
390	368	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
369	390	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
370	369	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
370	110	0.17	1	0.00	0.0	180.0	0.0	0.17	0.0	180.0	0.0
110	108	4.12	1	0.00	0.0	180.0	0.0	4.12	0.0	180.0	0.0
108	338	4.29	1	0.00	0.0	180.0	0.0	4.29	0.0	180.0	0.0
473	472	0.46	1	0.00	0.0	60.0	0.0	0.46	0.0	60.0	0.0
474	473	0.46	1	0.00	0.0	60.0	0.0	0.46	0.0	60.0	0.0
475	474	0.46	1	0.00	0.0	60.0	0.0	0.46	0.0	60.0	0.0
476	475	0.46	1	0.00	0.0	60.0	0.0	0.46	0.0	60.0	0.0

477	476	0.46	1	0.00	0.0	60.0	0.0	0.46	0.0	60.0	0.0
478	477	0.46	1	0.00	0.0	60.0	0.0	0.46	0.0	60.0	0.0
479	478	0.46	1	0.00	0.0	60.0	0.0	0.46	0.0	60.0	0.0
480	479	0.46	1	0.00	0.0	60.0	0.0	0.46	0.0	60.0	0.0
481	480	0.10	1	0.00	0.0	60.0	0.0	0.10	0.0	60.0	0.0
482	481	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
483	482	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
484	483	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
485	484	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
486	485	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
487	486	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
488	487	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
489	488	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
490	489	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
491	490	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
492	491	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
493	492	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
494	493	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
496	495	0.25	1	0.00	0.0	60.0	0.0	0.25	0.0	60.0	0.0
497	496	0.25	1	0.00	0.0	60.0	0.0	0.25	0.0	60.0	0.0
498	497	0.25	1	0.00	0.0	60.0	0.0	0.25	0.0	60.0	0.0
499	498	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
500	499	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
501	500	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
502	501	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
503	502	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
504	503	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
505	504	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0

506	505	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
507	506	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
508	507	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
509	508	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
510	509	0.10	1	0.00	0.0	60.0	0.0	0.10	0.0	60.0	0.0
511	510	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
512	511	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
513	512	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
514	513	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
515	514	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
516	515	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
517	516	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
518	517	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
519	518	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
520	519	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
521	520	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
522	521	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
165	121	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
169	165	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
173	169	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
177	173	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
181	177	0.38	1	0.00	0.0	60.0	-0.0	0.38	0.0	60.0	-0.0
185	181	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
190	185	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
194	190	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
197	194	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
201	197	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
205	201	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0

209	205	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
213	209	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
217	213	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
221	217	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
225	221	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
229	225	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
233	229	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
240	233	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
243	240	0.24	1	0.00	0.0	60.0	0.0	0.24	0.0	60.0	0.0
280	243	0.10	1	0.00	0.0	60.0	0.0	0.10	0.0	60.0	0.0
285	280	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
288	285	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
292	288	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
296	292	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
300	296	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
306	300	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
310	306	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
312	310	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
314	312	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
316	314	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
318	316	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
318	320	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
322	320	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
324	322	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
326	324	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
328	326	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
330	328	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
333	330	0.30	1	0.00	0.0	60.0	-0.0	0.30	0.0	60.0	-0.0

335	333	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
339	335	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
137	166	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
166	115	0.29	1	0.00	-0.0	60.0	0.0	0.29	-0.0	60.0	0.0
115	172	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
172	176	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
176	180	0.29	1	0.00	0.0	60.0	0.0	0.29	0.0	60.0	0.0
180	183	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
183	187	0.29	1	0.00	0.0	60.0	0.0	0.29	0.0	60.0	0.0
187	189	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
189	193	0.29	1	0.00	0.0	60.0	0.0	0.29	0.0	60.0	0.0
193	116	0.30	1	0.00	-0.0	60.0	0.0	0.30	-0.0	60.0	0.0
116	198	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
198	202	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
202	206	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
206	210	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
210	214	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
214	218	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
218	222	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
222	226	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
226	230	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
230	234	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
234	237	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
237	241	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
241	244	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
391	354	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
395	391	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
395	397	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0

401	397	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
405	401	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
409	405	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
414	409	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
418	414	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
422	418	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
427	422	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
431	427	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
435	431	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
439	435	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
442	439	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
446	442	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
451	446	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
455	451	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
460	455	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
465	460	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
468	465	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
472	468	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
168	119	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
170	168	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
174	170	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
178	174	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
182	178	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
186	182	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
191	186	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
195	191	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
199	195	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
203	199	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0

207	203	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
211	207	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
215	211	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
219	215	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
223	219	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
227	223	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
231	227	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
235	231	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
239	235	0.26	1	0.00	0.0	60.0	0.0	0.26	0.0	60.0	0.0
260	239	0.25	1	0.00	0.0	60.0	0.0	0.25	0.0	60.0	0.0
337	394	0.26	1	0.00	0.0	60.0	0.0	0.26	0.0	60.0	0.0
394	398	0.26	1	0.00	0.0	60.0	0.0	0.26	0.0	60.0	0.0
398	402	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
402	406	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
406	410	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
410	415	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
415	419	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
419	423	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
423	428	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
428	432	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
432	436	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
436	440	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
440	444	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
444	448	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
448	452	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
452	457	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
457	462	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
462	466	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0

466	469	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
469	494	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
152	167	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
167	171	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
171	175	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
175	179	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
179	184	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
184	188	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
188	192	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
192	196	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
196	200	0.37	1	0.00	0.0	60.0	0.0	0.37	0.0	60.0	0.0
200	204	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
204	208	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
208	212	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
212	216	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
216	220	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
220	224	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
224	228	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
228	232	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
232	236	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
236	238	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
238	242	0.21	1	0.00	0.0	60.0	0.0	0.21	0.0	60.0	0.0
242	274	0.10	1	0.00	0.0	60.0	0.0	0.10	0.0	60.0	0.0
274	282	0.31	1	0.00	0.0	60.0	0.0	0.31	0.0	60.0	0.0
282	286	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
286	290	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
290	294	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
294	298	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0

298	302	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
302	304	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
304	308	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
392	370	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
396	392	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
399	396	0.20	1	0.00	0.0	60.0	0.0	0.20	0.0	60.0	0.0
403	399	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
407	403	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
411	407	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
416	411	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
420	416	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
425	420	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
429	425	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
434	429	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
438	434	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
443	438	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
447	443	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
453	447	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
458	453	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
463	458	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
470	463	0.44	1	0.00	0.0	60.0	-0.0	0.44	0.0	60.0	-0.0
495	470	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
283	275	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
287	283	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
291	287	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
295	291	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
299	295	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
303	299	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0

305	303	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
309	305	0.32	1	0.00	0.0	60.0	0.0	0.32	0.0	60.0	0.0
265	281	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0
281	284	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
284	289	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
289	293	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
293	297	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
297	301	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
301	307	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
307	311	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
311	313	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
313	315	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
315	317	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
317	319	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
319	321	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
321	323	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
323	325	0.40	1	0.00	0.0	60.0	0.0	0.40	0.0	60.0	0.0
325	327	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
327	329	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
329	331	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
331	332	0.27	1	0.00	0.0	60.0	0.0	0.27	0.0	60.0	0.0
332	334	0.28	1	0.00	0.0	60.0	0.0	0.28	0.0	60.0	0.0
334	336	0.05	1	0.00	0.0	60.0	0.0	0.05	0.0	60.0	0.0
336	338	0.09	1	0.00	0.0	60.0	0.0	0.09	0.0	60.0	0.0
338	393	0.21	1	0.00	0.0	60.0	0.0	0.21	0.0	60.0	0.0
393	400	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
400	404	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
404	408	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0

408	412	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
412	413	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
413	417	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
417	421	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
421	424	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
424	426	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
426	430	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
430	433	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
433	437	0.30	1	0.00	0.0	60.0	0.0	0.30	0.0	60.0	0.0
437	441	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
441	445	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
445	449	0.38	1	0.00	0.0	60.0	0.0	0.38	0.0	60.0	0.0
449	450	0.22	1	0.00	0.0	60.0	0.0	0.22	0.0	60.0	0.0
450	454	0.22	1	0.00	0.0	60.0	0.0	0.22	0.0	60.0	0.0
454	456	0.22	1	0.00	0.0	60.0	0.0	0.22	0.0	60.0	0.0
456	459	0.22	1	0.00	0.0	60.0	0.0	0.22	0.0	60.0	0.0
459	461	0.22	1	0.00	0.0	60.0	0.0	0.22	0.0	60.0	0.0
461	464	0.22	1	0.00	0.0	60.0	0.0	0.22	0.0	60.0	0.0
464	467	0.22	1	0.00	0.0	60.0	0.0	0.22	0.0	60.0	0.0
467	471	0.22	1	0.00	0.0	60.0	0.0	0.22	0.0	60.0	0.0
471	522	0.11	1	0.00	0.0	60.0	0.0	0.11	0.0	60.0	0.0

Analisi dinamica

Convenzioni adottate

Nella presente versione del programma **WinStrand** l'analisi in campo dinamico della struttura può essere condotta per via *statica equivalente* ovvero per via *modale* facendo uso, per il calcolo della risposta, dello spettro di pseudo accelerazioni fornito dal regolamento italiano.

Dati generali relativi all'analisi dinamica

Spettro in accordo con TU 2008

- Camerano AN Longitudine 13.5522 Latitudine 43.5325
- **I valori di a_g/g sono ottenuti con una interpolazione Bilineare sul reticolo di riferimento.**
- Tipo di Terreno C
- Coefficiente di amplificazione topografica (S_T) 1.0000
- Vita nominale della costruzione (V_N) 50.0 anni
- Classe d'uso III coefficiente C_U 1.5
- Classe di duttilità impostata Bassa
- Fattore di struttura massimo q_0 per sisma orizzontale 1.00
- Fattore di duttilità α_u/α_1 per sisma orizzontale 1.00
- Fattore riduttivo regolarità in altezza K_R 1.00
- Fattore riduttivo per la presenza di setti K_w 1.00
- Fattore di struttura q per sisma orizzontale 1.00
- Fattore di struttura q per sisma verticale 1.50
- Smorzamento Viscoso ($0.05 = 5\%$) 0.05

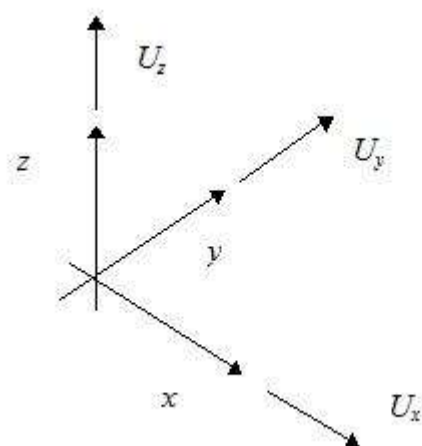
TU 2008 SLD H

- Probabilità di superamento (P_{VR}) 63.0 e periodo di ritorno (T_R) 75 (anni)
- S_s 1.500
- T_B 0.13 [sec]
- T_C 0.40 [sec]
- T_D 1.66 [sec]
- a_g/g 0.0138
- F_o 2.4731
- T_C^* 0.2800
- **Valori impostati dall'utente**

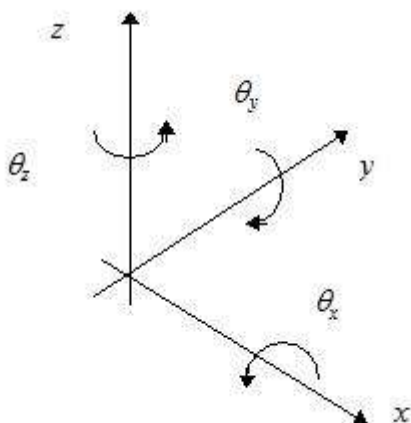
Spostamenti nodali

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per le componenti di spostamento nodale:



e per quanto riguarda le rotazioni:



Nel seguito vengono riportate, per ogni nodo (con esclusione dei nodi K che definiscono l'orientamento delle aste e quindi, essendo bloccati, hanno componenti di spostamento nulle), le componenti di spostamento in tutte le combinazioni di carico definite.

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
1	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00
2	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.00	0.00	0.00	0.00	0.00	0.00
3	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00
4	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00
5	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00
6	1	0.00	0.00	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00
7	1	0.29	-0.35	0.00	-0.07	-0.04	-0.02
	2	0.31	-0.21	0.00	-0.04	-0.04	-0.03
	3	0.15	-0.35	0.00	-0.07	-0.04	-0.00
	4	0.12	-0.33	0.00	-0.07	-0.04	0.01
	5	0.19	-0.28	0.00	-0.06	-0.04	0.00
	6	0.22	-0.15	0.00	-0.03	-0.04	-0.01
	7	0.24	0.10	0.00	0.03	-0.04	-0.04
	8	0.21	0.12	0.00	0.03	-0.04	-0.04
8	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00
9	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00
10	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00
101	1	-0.08	0.38	-0.04	-0.10	0.00	-0.02
	2	-0.15	0.67	-0.04	-0.08	0.00	-0.03
	3	-0.01	0.01	-0.04	-0.00	0.00	-0.00
	4	0.02	-0.12	-0.04	0.00	0.00	0.01
	5	0.02	-0.05	-0.04	-0.08	0.00	0.00
	6	-0.06	0.23	-0.04	-0.06	0.00	-0.01
	7	-0.25	0.95	-0.04	0.05	0.00	-0.04
	8	-0.22	0.82	-0.04	0.05	0.00	-0.04
102	1	-0.08	0.26	-0.01	-0.08	-0.04	-0.02
	2	-0.15	0.45	-0.01	-0.07	-0.04	-0.03
	3	-0.01	0.01	-0.01	-0.00	-0.04	-0.00
	4	0.02	-0.08	-0.01	0.00	-0.04	0.01
	5	0.02	-0.04	-0.01	-0.07	-0.04	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.06	0.16	-0.01	-0.06	-0.04	-0.01
	7	-0.25	0.64	-0.01	0.04	-0.04	-0.04
	8	-0.22	0.56	-0.01	0.05	-0.04	-0.04
103	1	-0.08	0.00	-0.01	-0.00	0.04	-0.02
	2	-0.15	0.01	-0.01	-0.01	0.04	-0.03
	3	-0.01	-0.00	-0.01	0.00	0.04	-0.00
	4	0.02	-0.01	-0.01	0.01	0.04	0.01
	5	0.02	-0.01	-0.01	0.02	0.04	0.00
	6	-0.06	-0.01	-0.01	0.01	0.04	-0.01
	7	-0.25	0.01	-0.01	-0.02	0.04	-0.04
	8	-0.22	0.01	-0.01	-0.01	0.04	-0.04
104	1	-0.08	-0.12	-0.04	-0.01	-0.00	-0.02
	2	-0.15	-0.21	-0.04	-0.02	-0.00	-0.03
	3	-0.01	-0.01	-0.04	0.01	0.00	-0.00
	4	0.02	0.03	-0.04	0.02	0.00	0.01
	5	0.02	-0.00	-0.04	0.04	0.00	0.00
	6	-0.06	-0.09	-0.04	0.03	0.00	-0.01
	7	-0.25	-0.29	-0.04	-0.04	-0.00	-0.04
	8	-0.22	-0.26	-0.04	-0.02	0.00	-0.04
105	1	-0.08	-0.25	-0.01	-0.01	-0.04	-0.02
	2	-0.15	-0.42	-0.01	-0.03	-0.04	-0.03
	3	-0.01	-0.01	-0.01	0.02	-0.04	-0.00
	4	0.02	0.07	-0.01	0.04	-0.04	0.01
	5	0.02	0.01	-0.01	0.06	-0.04	0.00
	6	-0.06	-0.17	-0.01	0.04	-0.04	-0.01
	7	-0.25	-0.60	-0.01	-0.05	-0.04	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.22	-0.52	-0.01	-0.03	-0.04	-0.04
106	1	0.14	0.13	-0.04	-0.07	0.00	-0.02
	2	0.23	0.23	-0.04	-0.04	0.00	-0.03
	3	-0.00	0.00	-0.04	-0.07	0.00	-0.00
	4	-0.05	-0.04	-0.04	-0.07	-0.00	0.01
	5	-0.00	-0.02	-0.04	-0.06	0.00	0.00
	6	0.08	0.07	-0.04	-0.03	0.00	-0.01
	7	0.29	0.33	-0.04	0.03	0.00	-0.04
	8	0.25	0.28	-0.04	0.03	0.00	-0.04
107	1	0.14	0.01	-0.01	-0.07	-0.04	-0.02
	2	0.23	0.01	-0.01	-0.04	-0.04	-0.03
	3	-0.00	-0.00	-0.01	-0.07	-0.04	-0.00
	4	-0.05	-0.01	-0.01	-0.07	-0.04	0.01
	5	-0.00	-0.01	-0.01	-0.06	-0.04	0.00
	6	0.08	-0.00	-0.01	-0.03	-0.04	-0.01
	7	0.29	0.02	-0.01	0.03	-0.04	-0.04
	8	0.25	0.02	-0.01	0.03	-0.04	-0.04
108	1	0.14	-0.37	-0.04	-0.12	-0.00	-0.02
	2	0.23	-0.64	-0.04	-0.12	-0.00	-0.03
	3	-0.00	-0.02	-0.04	-0.12	-0.00	-0.00
	4	-0.05	0.10	-0.04	-0.07	-0.00	0.01
	5	-0.00	0.02	-0.04	0.06	-0.00	0.00
	6	0.08	-0.25	-0.04	0.06	-0.00	-0.01
	7	0.29	-0.92	-0.04	-0.11	-0.00	-0.04
	8	0.25	-0.80	-0.04	-0.05	-0.00	-0.04
109	1	0.14	0.26	-0.01	-0.08	0.04	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.23	0.45	-0.01	-0.05	0.04	-0.03
	3	-0.00	0.01	-0.01	-0.08	0.04	-0.00
	4	-0.05	-0.08	-0.01	-0.08	0.04	0.01
	5	-0.00	-0.04	-0.01	-0.08	0.04	0.00
	6	0.08	0.15	-0.01	-0.04	0.04	-0.01
	7	0.29	0.64	-0.01	0.03	0.04	-0.04
	8	0.25	0.55	-0.01	0.04	0.04	-0.04
110	1	0.14	-0.25	-0.01	-0.11	0.03	-0.02
	2	0.23	-0.43	-0.01	-0.11	0.03	-0.03
	3	-0.00	-0.01	-0.01	-0.11	0.03	-0.00
	4	-0.05	0.07	-0.01	-0.06	0.03	0.01
	5	-0.00	0.01	-0.01	0.05	0.03	0.00
	6	0.08	-0.17	-0.01	0.06	0.03	-0.01
	7	0.29	-0.61	-0.01	-0.10	0.03	-0.04
	8	0.25	-0.53	-0.01	-0.05	0.03	-0.04
111	1	-0.30	0.50	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.87	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.02	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.15	0.00	-0.00	-0.00	0.01
	5	0.04	-0.06	0.00	-0.00	-0.00	0.00
	6	-0.19	0.31	0.00	-0.00	-0.00	-0.01
	7	-0.78	1.25	0.00	-0.00	-0.00	-0.04
	8	-0.68	1.08	0.00	-0.00	-0.00	-0.04
112	1	-0.30	0.41	0.00	-0.00	0.00	-0.02
	2	-0.53	0.72	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.08	-0.13	0.00	-0.00	0.00	0.01
	5	0.04	-0.05	0.00	-0.00	0.00	0.00
	6	-0.19	0.25	0.00	-0.00	0.00	-0.01
	7	-0.78	1.02	0.00	-0.00	0.00	-0.04
	8	-0.68	0.89	0.00	-0.00	0.00	-0.04
113	1	-0.30	-0.15	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.26	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.04	0.00	-0.00	-0.00	0.01
	5	0.04	0.00	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.10	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.37	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.32	0.00	-0.00	-0.00	-0.04
114	1	-0.30	-0.24	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.41	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	0.00	-0.00
	4	0.08	0.06	0.00	-0.00	0.00	0.01
	5	0.04	0.01	0.00	-0.00	0.00	0.00
	6	-0.19	-0.16	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.59	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.51	0.00	-0.00	0.00	-0.04
115	1	-0.28	0.25	0.00	0.00	-0.00	-0.02
	2	-0.50	0.44	0.00	0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	0.00	-0.00	-0.00
	4	0.08	-0.08	0.00	0.00	-0.00	0.01
	5	0.04	-0.04	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.19	0.15	0.00	0.00	-0.00	-0.01
	7	-0.75	0.63	0.00	0.00	-0.00	-0.04
	8	-0.66	0.54	0.00	0.00	-0.00	-0.04
116	1	-0.21	0.25	0.00	0.00	-0.00	-0.02
	2	-0.38	0.44	0.00	0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	0.00	-0.00	-0.00
	4	0.06	-0.08	0.00	0.00	-0.00	0.01
	5	0.03	-0.04	0.00	0.00	-0.00	0.00
	6	-0.14	0.15	0.00	0.00	-0.00	-0.01
	7	-0.58	0.63	0.00	0.00	-0.00	-0.04
	8	-0.50	0.54	0.00	0.00	-0.00	-0.04
117	1	-0.08	-0.37	0.00	-0.00	-0.00	-0.02
	2	-0.15	-0.64	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	0.02	0.10	0.00	-0.00	-0.00	0.01
	5	0.02	0.02	0.00	-0.00	-0.00	0.00
	6	-0.06	-0.24	0.00	-0.00	-0.00	-0.01
	7	-0.25	-0.91	0.00	-0.00	-0.00	-0.04
	8	-0.22	-0.79	0.00	-0.00	-0.00	-0.04
118	1	-0.08	-0.49	0.00	-0.00	0.00	-0.02
	2	-0.15	-0.84	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.02	0.14	0.00	-0.00	0.00	0.01
	5	0.02	0.03	0.00	-0.00	0.00	0.00
	6	-0.06	-0.32	0.00	-0.00	0.00	-0.01
	7	-0.25	-1.20	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.22	-1.04	0.00	-0.00	0.00	-0.04
119	1	-0.30	0.01	0.00	-0.00	0.00	-0.02
	2	-0.53	0.02	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	0.00	-0.00
	4	0.08	-0.01	0.00	-0.00	0.00	0.01
	5	0.04	-0.01	0.00	-0.00	0.00	0.00
	6	-0.19	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.78	0.03	0.00	-0.00	0.00	-0.04
	8	-0.68	0.02	0.00	-0.00	0.00	-0.04
120	1	-0.30	-0.00	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.00	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.01	0.00	-0.00	-0.00	0.01
	5	0.04	-0.01	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.01	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.00	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.00	0.00	-0.00	-0.00	-0.04
121	1	-0.30	0.51	0.00	-0.00	0.00	-0.02
	2	-0.53	0.89	0.00	-0.00	0.00	-0.03
	3	-0.02	0.02	0.00	-0.00	0.00	-0.00
	4	0.08	-0.16	0.00	-0.00	0.00	0.01
	5	0.04	-0.06	0.00	-0.00	0.00	0.00
	6	-0.19	0.32	0.00	-0.00	0.00	-0.01
	7	-0.78	1.27	0.00	-0.00	0.00	-0.04
	8	-0.68	1.10	0.00	-0.00	0.00	-0.04
122	1	-0.30	0.49	0.00	-0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.53	0.85	0.00	-0.00	0.00	-0.03
	3	-0.02	0.02	0.00	-0.00	0.00	-0.00
	4	0.08	-0.15	0.00	-0.00	0.00	0.01
	5	0.04	-0.06	0.00	-0.00	0.00	0.00
	6	-0.19	0.30	0.00	-0.00	0.00	-0.01
	7	-0.78	1.22	0.00	-0.00	0.00	-0.04
	8	-0.68	1.05	0.00	-0.00	0.00	-0.04
123	1	-0.30	0.48	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.83	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.02	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.15	0.00	-0.00	-0.00	0.01
	5	0.04	-0.06	0.00	-0.00	-0.00	0.00
	6	-0.19	0.30	0.00	-0.00	-0.00	-0.01
	7	-0.78	1.19	0.00	-0.00	-0.00	-0.04
	8	-0.68	1.03	0.00	-0.00	-0.00	-0.04
124	1	-0.30	0.47	0.00	-0.00	0.00	-0.02
	2	-0.53	0.81	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.14	0.00	-0.00	0.00	0.01
	5	0.04	-0.06	0.00	-0.00	0.00	0.00
	6	-0.19	0.29	0.00	-0.00	0.00	-0.01
	7	-0.78	1.16	0.00	-0.00	0.00	-0.04
	8	-0.68	1.01	0.00	-0.00	0.00	-0.04
125	1	-0.30	0.46	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.79	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.08	-0.14	0.00	-0.00	-0.00	0.01
	5	0.04	-0.05	0.00	-0.00	-0.00	0.00
	6	-0.19	0.28	0.00	-0.00	-0.00	-0.01
	7	-0.78	1.14	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.98	0.00	-0.00	-0.00	-0.04
126	1	-0.30	0.45	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.77	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.14	0.00	-0.00	-0.00	0.01
	5	0.04	-0.05	0.00	-0.00	-0.00	0.00
	6	-0.19	0.27	0.00	-0.00	-0.00	-0.01
	7	-0.78	1.11	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.96	0.00	-0.00	-0.00	-0.04
127	1	-0.30	0.44	0.00	-0.00	0.00	-0.02
	2	-0.53	0.76	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.13	0.00	-0.00	0.00	0.01
	5	0.04	-0.05	0.00	-0.00	0.00	0.00
	6	-0.19	0.27	0.00	-0.00	0.00	-0.01
	7	-0.78	1.08	0.00	-0.00	0.00	-0.04
	8	-0.68	0.93	0.00	-0.00	0.00	-0.04
128	1	-0.30	0.42	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.74	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.13	0.00	-0.00	-0.00	0.01
	5	0.04	-0.05	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.19	0.26	0.00	-0.00	-0.00	-0.01
	7	-0.78	1.05	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.91	0.00	-0.00	-0.00	-0.04
129	1	-0.30	0.40	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.70	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.12	0.00	-0.00	-0.00	0.01
	5	0.04	-0.05	0.00	-0.00	-0.00	0.00
	6	-0.19	0.25	0.00	-0.00	-0.00	-0.01
	7	-0.78	1.00	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.86	0.00	-0.00	-0.00	-0.04
130	1	-0.30	0.40	0.00	-0.00	0.00	-0.02
	2	-0.53	0.69	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.12	0.00	-0.00	0.00	0.01
	5	0.04	-0.05	0.00	-0.00	0.00	0.00
	6	-0.19	0.24	0.00	-0.00	0.00	-0.01
	7	-0.78	0.99	0.00	-0.00	0.00	-0.04
	8	-0.68	0.86	0.00	-0.00	0.00	-0.04
131	1	-0.30	0.39	0.00	-0.00	0.00	-0.02
	2	-0.53	0.68	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.12	0.00	-0.00	0.00	0.01
	5	0.04	-0.05	0.00	-0.00	0.00	0.00
	6	-0.19	0.24	0.00	-0.00	0.00	-0.01
	7	-0.78	0.97	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.68	0.84	0.00	-0.00	0.00	-0.04
132	1	-0.30	0.38	0.00	-0.00	0.00	-0.02
	2	-0.53	0.66	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.12	0.00	-0.00	0.00	0.01
	5	0.04	-0.05	0.00	-0.00	0.00	0.00
	6	-0.19	0.23	0.00	-0.00	0.00	-0.01
	7	-0.78	0.95	0.00	-0.00	0.00	-0.04
	8	-0.68	0.82	0.00	-0.00	0.00	-0.04
133	1	-0.30	0.35	0.00	-0.00	0.00	-0.02
	2	-0.53	0.60	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.11	0.00	-0.00	0.00	0.01
	5	0.04	-0.04	0.00	-0.00	0.00	0.00
	6	-0.19	0.21	0.00	-0.00	0.00	-0.01
	7	-0.78	0.86	0.00	-0.00	0.00	-0.04
	8	-0.68	0.75	0.00	-0.00	0.00	-0.04
134	1	-0.30	0.31	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.54	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.10	0.00	-0.00	-0.00	0.01
	5	0.04	-0.04	0.00	-0.00	-0.00	0.00
	6	-0.19	0.19	0.00	-0.00	-0.00	-0.01
	7	-0.78	0.77	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.67	0.00	-0.00	-0.00	-0.04
135	1	-0.30	0.28	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.53	0.48	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.09	0.00	-0.00	-0.00	0.01
	5	0.04	-0.04	0.00	-0.00	-0.00	0.00
	6	-0.19	0.17	0.00	-0.00	-0.00	-0.01
	7	-0.78	0.69	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.59	0.00	-0.00	-0.00	-0.04
136	1	-0.30	0.26	0.00	-0.00	0.00	-0.02
	2	-0.53	0.46	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.08	0.00	-0.00	0.00	0.01
	5	0.04	-0.04	0.00	-0.00	0.00	0.00
	6	-0.19	0.16	0.00	-0.00	0.00	-0.01
	7	-0.78	0.66	0.00	-0.00	0.00	-0.04
	8	-0.68	0.57	0.00	-0.00	0.00	-0.04
137	1	-0.30	0.25	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.44	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.08	0.00	-0.00	-0.00	0.01
	5	0.04	-0.04	0.00	-0.00	-0.00	0.00
	6	-0.19	0.15	0.00	-0.00	-0.00	-0.01
	7	-0.78	0.63	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.54	0.00	-0.00	-0.00	-0.04
138	1	-0.30	-0.01	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.02	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.08	-0.00	0.00	-0.00	0.00	0.01
	5	0.04	-0.01	0.00	-0.00	0.00	0.00
	6	-0.19	-0.02	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.03	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.03	0.00	-0.00	0.00	-0.04
139	1	-0.30	-0.05	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.08	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	0.00	-0.00
	4	0.08	0.01	0.00	-0.00	0.00	0.01
	5	0.04	-0.01	0.00	-0.00	0.00	0.00
	6	-0.19	-0.04	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.11	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.10	0.00	-0.00	0.00	-0.04
140	1	-0.30	-0.08	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.14	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.02	0.00	-0.00	-0.00	0.01
	5	0.04	-0.00	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.06	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.20	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.18	0.00	-0.00	-0.00	-0.04
141	1	-0.30	-0.12	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.20	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.03	0.00	-0.00	-0.00	0.01
	5	0.04	-0.00	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.19	-0.09	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.29	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.25	0.00	-0.00	-0.00	-0.04
142	1	-0.30	-0.13	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.22	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.03	0.00	-0.00	-0.00	0.01
	5	0.04	0.00	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.09	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.31	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.27	0.00	-0.00	-0.00	-0.04
143	1	-0.30	-0.14	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.23	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.03	0.00	-0.00	-0.00	0.01
	5	0.04	0.00	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.10	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.33	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.29	0.00	-0.00	-0.00	-0.04
144	1	-0.30	-0.14	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.24	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	0.00	-0.00
	4	0.08	0.03	0.00	-0.00	0.00	0.01
	5	0.04	0.00	0.00	-0.00	0.00	0.00
	6	-0.19	-0.10	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.34	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.68	-0.30	0.00	-0.00	0.00	-0.04
145	1	-0.30	-0.16	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.28	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	0.00	-0.00
	4	0.08	0.04	0.00	-0.00	0.00	0.01
	5	0.04	0.00	0.00	-0.00	0.00	0.00
	6	-0.19	-0.11	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.39	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.34	0.00	-0.00	0.00	-0.04
146	1	-0.30	-0.17	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.30	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.04	0.00	-0.00	-0.00	0.01
	5	0.04	0.00	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.12	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.42	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.37	0.00	-0.00	-0.00	-0.04
147	1	-0.30	-0.18	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.32	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.05	0.00	-0.00	-0.00	0.01
	5	0.04	0.01	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.13	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.45	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.39	0.00	-0.00	-0.00	-0.04
148	1	-0.30	-0.20	0.00	-0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.53	-0.34	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	0.00	-0.00
	4	0.08	0.05	0.00	-0.00	0.00	0.01
	5	0.04	0.01	0.00	-0.00	0.00	0.00
	6	-0.19	-0.13	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.48	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.42	0.00	-0.00	0.00	-0.04
149	1	-0.30	-0.21	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.35	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.05	0.00	-0.00	-0.00	0.01
	5	0.04	0.01	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.14	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.50	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.44	0.00	-0.00	-0.00	-0.04
150	1	-0.30	-0.22	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.37	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	0.00	-0.00
	4	0.08	0.06	0.00	-0.00	0.00	0.01
	5	0.04	0.01	0.00	-0.00	0.00	0.00
	6	-0.19	-0.15	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.53	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.46	0.00	-0.00	0.00	-0.04
151	1	-0.30	-0.23	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.39	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.08	0.06	0.00	-0.00	-0.00	0.01
	5	0.04	0.01	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.15	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.56	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.49	0.00	-0.00	-0.00	-0.04
152	1	-0.30	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.07	0.00	-0.00	-0.00	0.01
	5	0.04	0.01	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.54	0.00	-0.00	-0.00	-0.04
153	1	-0.30	0.37	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.64	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.11	0.00	-0.00	-0.00	0.01
	5	0.04	-0.05	0.00	-0.00	-0.00	0.00
	6	-0.19	0.23	0.00	-0.00	-0.00	-0.01
	7	-0.78	0.92	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.80	0.00	-0.00	-0.00	-0.04
154	1	-0.30	0.36	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.62	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.11	0.00	-0.00	-0.00	0.01
	5	0.04	-0.05	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.19	0.22	0.00	-0.00	-0.00	-0.01
	7	-0.78	0.89	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.77	0.00	-0.00	-0.00	-0.04
155	1	-0.30	0.34	0.00	-0.00	-0.00	-0.02
	2	-0.53	0.58	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.10	0.00	-0.00	-0.00	0.01
	5	0.04	-0.04	0.00	-0.00	-0.00	0.00
	6	-0.19	0.20	0.00	-0.00	-0.00	-0.01
	7	-0.78	0.83	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.72	0.00	-0.00	-0.00	-0.04
156	1	-0.30	0.32	0.00	-0.00	0.00	-0.02
	2	-0.53	0.56	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.10	0.00	-0.00	0.00	0.01
	5	0.04	-0.04	0.00	-0.00	0.00	0.00
	6	-0.19	0.20	0.00	-0.00	0.00	-0.01
	7	-0.78	0.80	0.00	-0.00	0.00	-0.04
	8	-0.68	0.69	0.00	-0.00	0.00	-0.04
157	1	-0.30	0.30	0.00	-0.00	0.00	-0.02
	2	-0.53	0.52	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.09	0.00	-0.00	0.00	0.01
	5	0.04	-0.04	0.00	-0.00	0.00	0.00
	6	-0.19	0.18	0.00	-0.00	0.00	-0.01
	7	-0.78	0.74	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.68	0.64	0.00	-0.00	0.00	-0.04
158	1	-0.30	0.29	0.00	-0.00	0.00	-0.02
	2	-0.53	0.50	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.08	-0.09	0.00	-0.00	0.00	0.01
	5	0.04	-0.04	0.00	-0.00	0.00	0.00
	6	-0.19	0.17	0.00	-0.00	0.00	-0.01
	7	-0.78	0.72	0.00	-0.00	0.00	-0.04
	8	-0.68	0.62	0.00	-0.00	0.00	-0.04
159	1	-0.30	-0.03	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.04	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	-0.00	-0.00
	4	0.08	0.00	0.00	-0.00	-0.00	0.01
	5	0.04	-0.01	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.03	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.06	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.05	0.00	-0.00	-0.00	-0.04
160	1	-0.30	-0.04	0.00	-0.00	-0.00	-0.02
	2	-0.53	-0.06	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	-0.00	-0.00
	4	0.08	0.00	0.00	-0.00	-0.00	0.01
	5	0.04	-0.01	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.03	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.09	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.08	0.00	-0.00	-0.00	-0.04
161	1	-0.30	-0.06	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.53	-0.10	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	-0.00	-0.00
	4	0.08	0.01	0.00	-0.00	-0.00	0.01
	5	0.04	-0.01	0.00	-0.00	-0.00	0.00
	6	-0.19	-0.05	0.00	-0.00	-0.00	-0.01
	7	-0.78	-0.14	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.13	0.00	-0.00	-0.00	-0.04
162	1	-0.30	-0.07	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.12	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	0.00	-0.00
	4	0.08	0.02	0.00	-0.00	0.00	0.01
	5	0.04	-0.00	0.00	-0.00	0.00	0.00
	6	-0.19	-0.06	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.17	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.15	0.00	-0.00	0.00	-0.04
163	1	-0.30	-0.10	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.16	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	0.00	-0.00
	4	0.08	0.02	0.00	-0.00	0.00	0.01
	5	0.04	-0.00	0.00	-0.00	0.00	0.00
	6	-0.19	-0.07	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.23	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.20	0.00	-0.00	0.00	-0.04
164	1	-0.30	-0.11	0.00	-0.00	0.00	-0.02
	2	-0.53	-0.18	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.08	0.03	0.00	-0.00	0.00	0.01
	5	0.04	-0.00	0.00	-0.00	0.00	0.00
	6	-0.19	-0.08	0.00	-0.00	0.00	-0.01
	7	-0.78	-0.26	0.00	-0.00	0.00	-0.04
	8	-0.68	-0.23	0.00	-0.00	0.00	-0.04
165	1	-0.29	0.51	0.00	-0.00	0.00	-0.02
	2	-0.52	0.89	0.00	-0.00	0.00	-0.03
	3	-0.02	0.02	0.00	-0.00	0.00	-0.00
	4	0.08	-0.16	0.00	-0.00	0.00	0.01
	5	0.04	-0.06	0.00	-0.00	0.00	0.00
	6	-0.19	0.32	0.00	-0.00	0.00	-0.01
	7	-0.77	1.27	0.00	-0.00	0.00	-0.04
	8	-0.68	1.10	0.00	-0.00	0.00	-0.04
166	1	-0.29	0.25	0.00	-0.00	-0.00	-0.02
	2	-0.52	0.44	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	-0.08	0.00	-0.00	-0.00	0.01
	5	0.04	-0.04	0.00	-0.00	-0.00	0.00
	6	-0.19	0.15	0.00	-0.00	-0.00	-0.01
	7	-0.77	0.63	0.00	-0.00	-0.00	-0.04
	8	-0.68	0.54	0.00	-0.00	-0.00	-0.04
167	1	-0.29	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.52	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.08	0.07	0.00	-0.00	-0.00	0.01
	5	0.04	0.01	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.19	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.77	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.68	-0.54	0.00	-0.00	-0.00	-0.04
168	1	-0.29	0.01	0.00	-0.00	0.00	-0.02
	2	-0.52	0.02	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	0.00	-0.00
	4	0.08	-0.01	0.00	-0.00	0.00	0.01
	5	0.04	-0.01	0.00	-0.00	0.00	0.00
	6	-0.19	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.77	0.03	0.00	-0.00	0.00	-0.04
	8	-0.68	0.02	0.00	-0.00	0.00	-0.04
169	1	-0.28	0.51	0.00	0.00	0.00	-0.02
	2	-0.50	0.89	0.00	0.00	0.00	-0.03
	3	-0.02	0.02	0.00	0.00	0.00	-0.00
	4	0.08	-0.16	0.00	0.00	0.00	0.01
	5	0.04	-0.06	0.00	0.00	0.00	0.00
	6	-0.19	0.32	0.00	0.00	0.00	-0.01
	7	-0.75	1.27	0.00	0.00	0.00	-0.04
	8	-0.66	1.10	0.00	0.00	0.00	-0.04
170	1	-0.28	0.01	0.00	0.00	0.00	-0.02
	2	-0.50	0.02	0.00	0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	0.00	0.00	-0.00
	4	0.08	-0.01	0.00	0.00	0.00	0.01
	5	0.04	-0.01	0.00	0.00	0.00	0.00
	6	-0.19	-0.00	0.00	0.00	0.00	-0.01
	7	-0.75	0.03	0.00	0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.66	0.02	0.00	0.00	0.00	-0.04
171	1	-0.28	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.50	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	0.00	-0.00	-0.00
	4	0.08	0.07	0.00	0.00	-0.00	0.01
	5	0.03	0.01	0.00	0.00	-0.00	0.00
	6	-0.18	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.75	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.65	-0.54	0.00	0.00	-0.00	-0.04
172	1	-0.27	0.25	0.00	-0.00	-0.00	-0.02
	2	-0.49	0.44	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.07	-0.08	0.00	-0.00	-0.00	0.01
	5	0.03	-0.04	0.00	-0.00	-0.00	0.00
	6	-0.18	0.15	0.00	-0.00	-0.00	-0.01
	7	-0.73	0.63	0.00	-0.00	-0.00	-0.04
	8	-0.64	0.54	0.00	-0.00	-0.00	-0.04
173	1	-0.27	0.51	0.00	-0.00	0.00	-0.02
	2	-0.49	0.89	0.00	-0.00	0.00	-0.03
	3	-0.02	0.02	0.00	-0.00	0.00	-0.00
	4	0.07	-0.16	0.00	-0.00	0.00	0.01
	5	0.03	-0.06	0.00	-0.00	0.00	0.00
	6	-0.18	0.32	0.00	-0.00	0.00	-0.01
	7	-0.73	1.27	0.00	-0.00	0.00	-0.04
	8	-0.64	1.10	0.00	-0.00	0.00	-0.04
174	1	-0.27	0.01	0.00	-0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.49	0.02	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	0.00	-0.00
	4	0.07	-0.01	0.00	-0.00	0.00	0.01
	5	0.03	-0.01	0.00	-0.00	0.00	0.00
	6	-0.18	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.73	0.03	0.00	-0.00	0.00	-0.04
	8	-0.64	0.02	0.00	-0.00	0.00	-0.04
175	1	-0.27	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.48	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.07	0.07	0.00	-0.00	-0.00	0.01
	5	0.03	0.01	0.00	-0.00	-0.00	0.00
	6	-0.18	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.72	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.63	-0.54	0.00	-0.00	-0.00	-0.04
176	1	-0.27	0.25	0.00	0.00	-0.00	-0.02
	2	-0.47	0.44	0.00	0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	0.00	-0.00	-0.00
	4	0.07	-0.08	0.00	0.00	-0.00	0.01
	5	0.03	-0.04	0.00	0.00	-0.00	0.00
	6	-0.17	0.15	0.00	0.00	-0.00	-0.01
	7	-0.71	0.63	0.00	0.00	-0.00	-0.04
	8	-0.62	0.54	0.00	0.00	-0.00	-0.04
177	1	-0.26	0.51	0.00	0.00	0.00	-0.02
	2	-0.47	0.89	0.00	0.00	0.00	-0.03
	3	-0.02	0.02	0.00	0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.07	-0.16	0.00	0.00	0.00	0.01
	5	0.03	-0.06	0.00	0.00	0.00	0.00
	6	-0.17	0.32	0.00	0.00	0.00	-0.01
	7	-0.70	1.27	0.00	0.00	0.00	-0.04
	8	-0.61	1.10	0.00	0.00	0.00	-0.04
178	1	-0.26	0.01	0.00	0.00	0.00	-0.02
	2	-0.47	0.02	0.00	0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	0.00	0.00	-0.00
	4	0.07	-0.01	0.00	0.00	0.00	0.01
	5	0.03	-0.01	0.00	0.00	0.00	0.00
	6	-0.17	-0.00	0.00	0.00	0.00	-0.01
	7	-0.70	0.03	0.00	0.00	0.00	-0.04
	8	-0.61	0.02	0.00	0.00	0.00	-0.04
179	1	-0.26	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.46	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	0.00	-0.00	-0.00
	4	0.07	0.07	0.00	0.00	-0.00	0.01
	5	0.03	0.01	0.00	0.00	-0.00	0.00
	6	-0.17	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.69	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.60	-0.54	0.00	0.00	-0.00	-0.04
180	1	-0.26	0.25	0.00	-0.00	-0.00	-0.02
	2	-0.46	0.44	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.07	-0.08	0.00	-0.00	-0.00	0.01
	5	0.03	-0.04	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.17	0.15	0.00	-0.00	-0.00	-0.01
	7	-0.69	0.63	0.00	-0.00	-0.00	-0.04
	8	-0.60	0.54	0.00	-0.00	-0.00	-0.04
181	1	-0.25	0.51	0.00	0.00	0.00	-0.02
	2	-0.45	0.89	0.00	0.00	0.00	-0.03
	3	-0.02	0.02	0.00	0.00	0.00	-0.00
	4	0.07	-0.16	0.00	0.00	0.00	0.01
	5	0.03	-0.06	0.00	0.00	0.00	0.00
	6	-0.16	0.32	0.00	0.00	0.00	-0.01
	7	-0.67	1.27	0.00	0.00	0.00	-0.04
	8	-0.59	1.10	0.00	0.00	0.00	-0.04
182	1	-0.25	0.01	0.00	0.00	0.00	-0.02
	2	-0.45	0.02	0.00	0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	0.00	0.00	-0.00
	4	0.07	-0.01	0.00	0.00	0.00	0.01
	5	0.03	-0.01	0.00	0.00	0.00	0.00
	6	-0.16	-0.00	0.00	0.00	0.00	-0.01
	7	-0.67	0.03	0.00	0.00	0.00	-0.04
	8	-0.59	0.02	0.00	0.00	0.00	-0.04
183	1	-0.25	0.25	0.00	0.00	-0.00	-0.02
	2	-0.44	0.44	0.00	0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	0.00	-0.00	-0.00
	4	0.07	-0.08	0.00	0.00	-0.00	0.01
	5	0.03	-0.04	0.00	0.00	-0.00	0.00
	6	-0.16	0.15	0.00	0.00	-0.00	-0.01
	7	-0.66	0.63	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.58	0.54	0.00	0.00	-0.00	-0.04
184	1	-0.25	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.44	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.07	0.07	0.00	-0.00	-0.00	0.01
	5	0.03	0.01	0.00	-0.00	-0.00	0.00
	6	-0.16	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.66	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.58	-0.54	0.00	-0.00	-0.00	-0.04
185	1	-0.24	0.51	0.00	-0.00	0.00	-0.02
	2	-0.43	0.89	0.00	-0.00	0.00	-0.03
	3	-0.02	0.02	0.00	-0.00	0.00	-0.00
	4	0.06	-0.16	0.00	-0.00	0.00	0.01
	5	0.03	-0.06	0.00	-0.00	0.00	0.00
	6	-0.16	0.32	0.00	-0.00	0.00	-0.01
	7	-0.64	1.27	0.00	-0.00	0.00	-0.04
	8	-0.56	1.10	0.00	-0.00	0.00	-0.04
186	1	-0.24	0.01	0.00	-0.00	0.00	-0.02
	2	-0.43	0.02	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	0.00	-0.00
	4	0.06	-0.01	0.00	-0.00	0.00	0.01
	5	0.03	-0.01	0.00	-0.00	0.00	0.00
	6	-0.16	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.64	0.03	0.00	-0.00	0.00	-0.04
	8	-0.56	0.02	0.00	-0.00	0.00	-0.04
187	1	-0.24	0.25	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.43	0.44	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.06	-0.08	0.00	-0.00	-0.00	0.01
	5	0.03	-0.04	0.00	-0.00	-0.00	0.00
	6	-0.16	0.15	0.00	-0.00	-0.00	-0.01
	7	-0.64	0.63	0.00	-0.00	-0.00	-0.04
	8	-0.56	0.54	0.00	-0.00	-0.00	-0.04
188	1	-0.24	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.42	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	0.00	-0.00	-0.00
	4	0.06	0.07	0.00	0.00	-0.00	0.01
	5	0.03	0.01	0.00	0.00	-0.00	0.00
	6	-0.16	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.64	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.56	-0.54	0.00	0.00	-0.00	-0.04
189	1	-0.23	0.25	0.00	0.00	-0.00	-0.02
	2	-0.41	0.44	0.00	0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	0.00	-0.00	-0.00
	4	0.06	-0.08	0.00	0.00	-0.00	0.01
	5	0.03	-0.04	0.00	0.00	-0.00	0.00
	6	-0.15	0.15	0.00	0.00	-0.00	-0.01
	7	-0.62	0.63	0.00	0.00	-0.00	-0.04
	8	-0.54	0.54	0.00	0.00	-0.00	-0.04
190	1	-0.23	0.51	0.00	0.00	0.00	-0.02
	2	-0.41	0.89	0.00	0.00	0.00	-0.03
	3	-0.02	0.02	0.00	0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.06	-0.16	0.00	0.00	0.00	0.01
	5	0.03	-0.06	0.00	0.00	0.00	0.00
	6	-0.15	0.32	0.00	0.00	0.00	-0.01
	7	-0.61	1.27	0.00	0.00	0.00	-0.04
	8	-0.54	1.10	0.00	0.00	0.00	-0.04
191	1	-0.23	0.01	0.00	0.00	0.00	-0.02
	2	-0.41	0.02	0.00	0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	0.00	0.00	-0.00
	4	0.06	-0.01	0.00	0.00	0.00	0.01
	5	0.03	-0.01	0.00	0.00	0.00	0.00
	6	-0.15	-0.00	0.00	0.00	0.00	-0.01
	7	-0.61	0.03	0.00	0.00	0.00	-0.04
	8	-0.54	0.02	0.00	0.00	0.00	-0.04
192	1	-0.23	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.40	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.06	0.07	0.00	-0.00	-0.00	0.01
	5	0.03	0.01	0.00	-0.00	-0.00	0.00
	6	-0.15	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.61	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.53	-0.54	0.00	-0.00	-0.00	-0.04
193	1	-0.22	0.25	0.00	-0.00	-0.00	-0.02
	2	-0.40	0.44	0.00	-0.00	-0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	-0.00	-0.00
	4	0.06	-0.08	0.00	-0.00	-0.00	0.01
	5	0.03	-0.04	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.15	0.15	0.00	-0.00	-0.00	-0.01
	7	-0.60	0.63	0.00	-0.00	-0.00	-0.04
	8	-0.52	0.54	0.00	-0.00	-0.00	-0.04
194	1	-0.21	0.51	0.00	-0.00	0.00	-0.02
	2	-0.39	0.89	0.00	-0.00	0.00	-0.03
	3	-0.02	0.02	0.00	-0.00	0.00	-0.00
	4	0.06	-0.16	0.00	-0.00	0.00	0.01
	5	0.03	-0.06	0.00	-0.00	0.00	0.00
	6	-0.14	0.32	0.00	-0.00	0.00	-0.01
	7	-0.58	1.27	0.00	-0.00	0.00	-0.04
	8	-0.51	1.10	0.00	-0.00	0.00	-0.04
195	1	-0.21	0.01	0.00	-0.00	0.00	-0.02
	2	-0.39	0.02	0.00	-0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	-0.00	0.00	-0.00
	4	0.06	-0.01	0.00	-0.00	0.00	0.01
	5	0.03	-0.01	0.00	-0.00	0.00	0.00
	6	-0.14	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.58	0.03	0.00	-0.00	0.00	-0.04
	8	-0.51	0.02	0.00	-0.00	0.00	-0.04
196	1	-0.21	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.38	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	0.00	-0.00	-0.00
	4	0.06	0.07	0.00	0.00	-0.00	0.01
	5	0.03	0.01	0.00	0.00	-0.00	0.00
	6	-0.14	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.58	-0.61	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.51	-0.54	0.00	0.00	-0.00	-0.04
197	1	-0.20	0.51	0.00	0.00	0.00	-0.02
	2	-0.36	0.89	0.00	0.00	0.00	-0.03
	3	-0.02	0.02	0.00	0.00	0.00	-0.00
	4	0.05	-0.16	0.00	0.00	0.00	0.01
	5	0.03	-0.06	0.00	0.00	0.00	0.00
	6	-0.13	0.32	0.00	0.00	0.00	-0.01
	7	-0.55	1.27	0.00	0.00	0.00	-0.04
	8	-0.48	1.10	0.00	0.00	0.00	-0.04
198	1	-0.20	0.25	0.00	-0.00	0.00	-0.02
	2	-0.36	0.44	0.00	-0.00	0.00	-0.03
	3	-0.02	0.01	0.00	-0.00	0.00	-0.00
	4	0.05	-0.08	0.00	-0.00	0.00	0.01
	5	0.03	-0.04	0.00	-0.00	0.00	0.00
	6	-0.13	0.15	0.00	-0.00	0.00	-0.01
	7	-0.55	0.63	0.00	-0.00	0.00	-0.04
	8	-0.48	0.54	0.00	-0.00	0.00	-0.04
199	1	-0.20	0.01	0.00	0.00	0.00	-0.02
	2	-0.36	0.02	0.00	0.00	0.00	-0.03
	3	-0.02	-0.00	0.00	0.00	0.00	-0.00
	4	0.05	-0.01	0.00	0.00	0.00	0.01
	5	0.03	-0.01	0.00	0.00	0.00	0.00
	6	-0.13	-0.00	0.00	0.00	0.00	-0.01
	7	-0.55	0.03	0.00	0.00	0.00	-0.04
	8	-0.48	0.02	0.00	0.00	0.00	-0.04
200	1	-0.20	-0.25	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.36	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.02	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.05	0.07	0.00	-0.00	-0.00	0.01
	5	0.03	0.01	0.00	-0.00	-0.00	0.00
	6	-0.13	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.55	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.48	-0.54	0.00	-0.00	-0.00	-0.04
201	1	-0.19	0.51	0.00	-0.00	0.00	-0.02
	2	-0.34	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	0.05	-0.16	0.00	-0.00	0.00	0.01
	5	0.03	-0.06	0.00	-0.00	0.00	0.00
	6	-0.13	0.32	0.00	-0.00	0.00	-0.01
	7	-0.53	1.27	0.00	-0.00	0.00	-0.04
	8	-0.46	1.10	0.00	-0.00	0.00	-0.04
202	1	-0.19	0.25	0.00	0.00	0.00	-0.02
	2	-0.34	0.44	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.05	-0.08	0.00	0.00	0.00	0.01
	5	0.03	-0.04	0.00	0.00	0.00	0.00
	6	-0.13	0.15	0.00	0.00	0.00	-0.01
	7	-0.53	0.63	0.00	0.00	0.00	-0.04
	8	-0.46	0.54	0.00	0.00	0.00	-0.04
203	1	-0.19	0.01	0.00	-0.00	0.00	-0.02
	2	-0.34	0.02	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.05	-0.01	0.00	-0.00	0.00	0.01
	5	0.03	-0.01	0.00	-0.00	0.00	0.00
	6	-0.13	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.53	0.03	0.00	-0.00	0.00	-0.04
	8	-0.46	0.02	0.00	-0.00	0.00	-0.04
204	1	-0.19	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.34	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	0.05	0.07	0.00	0.00	-0.00	0.01
	5	0.03	0.01	0.00	0.00	-0.00	0.00
	6	-0.13	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.53	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.46	-0.54	0.00	0.00	-0.00	-0.04
205	1	-0.18	0.51	0.00	0.00	0.00	-0.02
	2	-0.32	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.05	-0.16	0.00	0.00	0.00	0.01
	5	0.03	-0.06	0.00	0.00	0.00	0.00
	6	-0.12	0.32	0.00	0.00	0.00	-0.01
	7	-0.50	1.27	0.00	0.00	0.00	-0.04
	8	-0.44	1.10	0.00	0.00	0.00	-0.04
206	1	-0.18	0.25	0.00	0.00	0.00	-0.02
	2	-0.32	0.44	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.05	-0.08	0.00	0.00	0.00	0.01
	5	0.03	-0.04	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.12	0.15	0.00	0.00	0.00	-0.01
	7	-0.50	0.63	0.00	0.00	0.00	-0.04
	8	-0.44	0.54	0.00	0.00	0.00	-0.04
207	1	-0.18	0.01	0.00	0.00	0.00	-0.02
	2	-0.32	0.02	0.00	0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	0.00	-0.00
	4	0.05	-0.01	0.00	0.00	0.00	0.01
	5	0.03	-0.01	0.00	0.00	0.00	0.00
	6	-0.12	-0.00	0.00	0.00	0.00	-0.01
	7	-0.50	0.03	0.00	0.00	0.00	-0.04
	8	-0.44	0.02	0.00	0.00	0.00	-0.04
208	1	-0.18	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.32	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	0.05	0.07	0.00	0.00	-0.00	0.01
	5	0.03	0.01	0.00	0.00	-0.00	0.00
	6	-0.12	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.50	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.44	-0.54	0.00	0.00	-0.00	-0.04
209	1	-0.17	0.51	0.00	-0.00	0.00	-0.02
	2	-0.30	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	0.04	-0.16	0.00	-0.00	0.00	0.01
	5	0.02	-0.06	0.00	-0.00	0.00	0.00
	6	-0.11	0.32	0.00	-0.00	0.00	-0.01
	7	-0.47	1.27	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.41	1.10	0.00	-0.00	0.00	-0.04
210	1	-0.17	0.25	0.00	-0.00	0.00	-0.02
	2	-0.30	0.44	0.00	-0.00	0.00	-0.03
	3	-0.01	0.01	0.00	-0.00	0.00	-0.00
	4	0.04	-0.08	0.00	-0.00	0.00	0.01
	5	0.02	-0.04	0.00	-0.00	0.00	0.00
	6	-0.11	0.15	0.00	-0.00	0.00	-0.01
	7	-0.47	0.63	0.00	-0.00	0.00	-0.04
	8	-0.41	0.54	0.00	-0.00	0.00	-0.04
211	1	-0.17	0.01	0.00	-0.00	0.00	-0.02
	2	-0.30	0.02	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	-0.00	0.00	-0.00
	4	0.04	-0.01	0.00	-0.00	0.00	0.01
	5	0.02	-0.01	0.00	-0.00	0.00	0.00
	6	-0.11	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.47	0.03	0.00	-0.00	0.00	-0.04
	8	-0.41	0.02	0.00	-0.00	0.00	-0.04
212	1	-0.17	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.30	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.04	0.07	0.00	-0.00	-0.00	0.01
	5	0.02	0.01	0.00	-0.00	-0.00	0.00
	6	-0.11	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.47	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.41	-0.54	0.00	-0.00	-0.00	-0.04
213	1	-0.16	0.51	0.00	0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.28	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.04	-0.16	0.00	0.00	0.00	0.01
	5	0.02	-0.06	0.00	0.00	0.00	0.00
	6	-0.10	0.32	0.00	0.00	0.00	-0.01
	7	-0.44	1.27	0.00	0.00	0.00	-0.04
	8	-0.38	1.10	0.00	0.00	0.00	-0.04
214	1	-0.16	0.25	0.00	0.00	0.00	-0.02
	2	-0.28	0.44	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.04	-0.08	0.00	0.00	0.00	0.01
	5	0.02	-0.04	0.00	0.00	0.00	0.00
	6	-0.10	0.15	0.00	0.00	0.00	-0.01
	7	-0.44	0.63	0.00	0.00	0.00	-0.04
	8	-0.38	0.54	0.00	0.00	0.00	-0.04
215	1	-0.16	0.01	0.00	0.00	0.00	-0.02
	2	-0.28	0.02	0.00	0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	0.00	-0.00
	4	0.04	-0.01	0.00	0.00	0.00	0.01
	5	0.02	-0.01	0.00	0.00	0.00	0.00
	6	-0.10	-0.00	0.00	0.00	0.00	-0.01
	7	-0.44	0.03	0.00	0.00	0.00	-0.04
	8	-0.38	0.02	0.00	0.00	0.00	-0.04
216	1	-0.16	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.28	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.04	0.07	0.00	0.00	-0.00	0.01
	5	0.02	0.01	0.00	0.00	-0.00	0.00
	6	-0.10	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.44	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.38	-0.54	0.00	0.00	-0.00	-0.04
217	1	-0.14	0.51	0.00	-0.00	0.00	-0.02
	2	-0.26	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	0.04	-0.16	0.00	-0.00	0.00	0.01
	5	0.02	-0.06	0.00	-0.00	0.00	0.00
	6	-0.10	0.32	0.00	-0.00	0.00	-0.01
	7	-0.41	1.27	0.00	-0.00	0.00	-0.04
	8	-0.36	1.10	0.00	-0.00	0.00	-0.04
218	1	-0.14	0.25	0.00	-0.00	0.00	-0.02
	2	-0.26	0.44	0.00	-0.00	0.00	-0.03
	3	-0.01	0.01	0.00	-0.00	0.00	-0.00
	4	0.04	-0.08	0.00	-0.00	0.00	0.01
	5	0.02	-0.04	0.00	-0.00	0.00	0.00
	6	-0.10	0.15	0.00	-0.00	0.00	-0.01
	7	-0.41	0.63	0.00	-0.00	0.00	-0.04
	8	-0.36	0.54	0.00	-0.00	0.00	-0.04
219	1	-0.14	0.01	0.00	-0.00	0.00	-0.02
	2	-0.26	0.02	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	-0.00	0.00	-0.00
	4	0.04	-0.01	0.00	-0.00	0.00	0.01
	5	0.02	-0.01	0.00	-0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.10	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.41	0.03	0.00	-0.00	0.00	-0.04
	8	-0.36	0.02	0.00	-0.00	0.00	-0.04
220	1	-0.14	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.26	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.04	0.07	0.00	-0.00	-0.00	0.01
	5	0.02	0.01	0.00	-0.00	-0.00	0.00
	6	-0.10	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.41	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.36	-0.54	0.00	-0.00	-0.00	-0.04
221	1	-0.13	0.51	0.00	0.00	0.00	-0.02
	2	-0.24	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.03	-0.16	0.00	0.00	0.00	0.01
	5	0.02	-0.06	0.00	0.00	0.00	0.00
	6	-0.09	0.32	0.00	0.00	0.00	-0.01
	7	-0.38	1.27	0.00	0.00	0.00	-0.04
	8	-0.33	1.10	0.00	0.00	0.00	-0.04
222	1	-0.13	0.25	0.00	0.00	0.00	-0.02
	2	-0.24	0.44	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.03	-0.08	0.00	0.00	0.00	0.01
	5	0.02	-0.04	0.00	0.00	0.00	0.00
	6	-0.09	0.15	0.00	0.00	0.00	-0.01
	7	-0.38	0.63	0.00	0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.33	0.54	0.00	0.00	0.00	-0.04
223	1	-0.13	0.01	0.00	0.00	0.00	-0.02
	2	-0.24	0.02	0.00	0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	0.00	-0.00
	4	0.03	-0.01	0.00	0.00	0.00	0.01
	5	0.02	-0.01	0.00	0.00	0.00	0.00
	6	-0.09	-0.00	0.00	0.00	0.00	-0.01
	7	-0.38	0.03	0.00	0.00	0.00	-0.04
	8	-0.33	0.02	0.00	0.00	0.00	-0.04
224	1	-0.13	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.24	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	0.03	0.07	0.00	0.00	-0.00	0.01
	5	0.02	0.01	0.00	0.00	-0.00	0.00
	6	-0.09	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.38	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.33	-0.54	0.00	0.00	-0.00	-0.04
225	1	-0.12	0.51	0.00	-0.00	0.00	-0.02
	2	-0.22	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	0.03	-0.16	0.00	-0.00	0.00	0.01
	5	0.02	-0.06	0.00	-0.00	0.00	0.00
	6	-0.08	0.32	0.00	-0.00	0.00	-0.01
	7	-0.35	1.27	0.00	-0.00	0.00	-0.04
	8	-0.31	1.10	0.00	-0.00	0.00	-0.04
226	1	-0.12	0.25	0.00	-0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.22	0.44	0.00	-0.00	0.00	-0.03
	3	-0.01	0.01	0.00	-0.00	0.00	-0.00
	4	0.03	-0.08	0.00	-0.00	0.00	0.01
	5	0.02	-0.04	0.00	-0.00	0.00	0.00
	6	-0.08	0.15	0.00	-0.00	0.00	-0.01
	7	-0.35	0.63	0.00	-0.00	0.00	-0.04
	8	-0.31	0.54	0.00	-0.00	0.00	-0.04
227	1	-0.12	0.01	0.00	-0.00	0.00	-0.02
	2	-0.22	0.02	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	-0.00	0.00	-0.00
	4	0.03	-0.01	0.00	-0.00	0.00	0.01
	5	0.02	-0.01	0.00	-0.00	0.00	0.00
	6	-0.08	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.35	0.03	0.00	-0.00	0.00	-0.04
	8	-0.31	0.02	0.00	-0.00	0.00	-0.04
228	1	-0.12	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.22	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.03	0.07	0.00	-0.00	-0.00	0.01
	5	0.02	0.01	0.00	-0.00	-0.00	0.00
	6	-0.08	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.35	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.31	-0.54	0.00	-0.00	-0.00	-0.04
229	1	-0.11	0.51	0.00	-0.00	0.00	-0.02
	2	-0.20	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.03	-0.16	0.00	-0.00	0.00	0.01
	5	0.02	-0.06	0.00	-0.00	0.00	0.00
	6	-0.07	0.32	0.00	-0.00	0.00	-0.01
	7	-0.32	1.27	0.00	-0.00	0.00	-0.04
	8	-0.28	1.10	0.00	-0.00	0.00	-0.04
230	1	-0.11	0.25	0.00	-0.00	0.00	-0.02
	2	-0.20	0.44	0.00	-0.00	0.00	-0.03
	3	-0.01	0.01	0.00	-0.00	0.00	-0.00
	4	0.03	-0.08	0.00	-0.00	0.00	0.01
	5	0.02	-0.04	0.00	-0.00	0.00	0.00
	6	-0.07	0.15	0.00	-0.00	0.00	-0.01
	7	-0.32	0.63	0.00	-0.00	0.00	-0.04
	8	-0.28	0.54	0.00	-0.00	0.00	-0.04
231	1	-0.11	0.01	0.00	-0.00	0.00	-0.02
	2	-0.20	0.02	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	-0.00	0.00	-0.00
	4	0.03	-0.01	0.00	-0.00	0.00	0.01
	5	0.02	-0.01	0.00	-0.00	0.00	0.00
	6	-0.07	-0.00	0.00	-0.00	0.00	-0.01
	7	-0.32	0.03	0.00	-0.00	0.00	-0.04
	8	-0.28	0.02	0.00	-0.00	0.00	-0.04
232	1	-0.11	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.20	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.03	0.07	0.00	-0.00	-0.00	0.01
	5	0.02	0.01	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.07	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.32	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.28	-0.54	0.00	-0.00	-0.00	-0.04
233	1	-0.10	0.51	0.00	0.00	0.00	-0.02
	2	-0.18	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.02	-0.16	0.00	0.00	0.00	0.01
	5	0.02	-0.06	0.00	0.00	0.00	0.00
	6	-0.07	0.32	0.00	0.00	0.00	-0.01
	7	-0.29	1.27	0.00	0.00	0.00	-0.04
	8	-0.26	1.10	0.00	0.00	0.00	-0.04
234	1	-0.10	0.25	0.00	0.00	0.00	-0.02
	2	-0.18	0.44	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.02	-0.08	0.00	0.00	0.00	0.01
	5	0.02	-0.04	0.00	0.00	0.00	0.00
	6	-0.07	0.15	0.00	0.00	0.00	-0.01
	7	-0.29	0.63	0.00	0.00	0.00	-0.04
	8	-0.26	0.54	0.00	0.00	0.00	-0.04
235	1	-0.10	0.01	0.00	0.00	-0.00	-0.02
	2	-0.18	0.02	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.01	0.00	0.00	-0.00	0.01
	5	0.02	-0.01	0.00	0.00	-0.00	0.00
	6	-0.07	-0.00	0.00	0.00	-0.00	-0.01
	7	-0.29	0.03	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.26	0.02	0.00	0.00	-0.00	-0.04
236	1	-0.10	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.18	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	0.02	0.07	0.00	0.00	-0.00	0.01
	5	0.02	0.01	0.00	0.00	-0.00	0.00
	6	-0.07	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.29	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.26	-0.54	0.00	0.00	-0.00	-0.04
237	1	-0.09	0.25	0.00	0.00	0.00	-0.02
	2	-0.17	0.44	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.02	-0.08	0.00	0.00	0.00	0.01
	5	0.02	-0.04	0.00	0.00	0.00	0.00
	6	-0.06	0.15	0.00	0.00	0.00	-0.01
	7	-0.28	0.63	0.00	0.00	0.00	-0.04
	8	-0.24	0.54	0.00	0.00	0.00	-0.04
238	1	-0.09	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.17	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	0.02	0.07	0.00	0.00	-0.00	0.01
	5	0.02	0.01	0.00	0.00	-0.00	0.00
	6	-0.06	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.28	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.24	-0.54	0.00	0.00	-0.00	-0.04
239	1	-0.09	0.01	0.00	0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.17	0.02	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.01	0.00	0.00	-0.00	0.01
	5	0.02	-0.01	0.00	0.00	-0.00	0.00
	6	-0.06	-0.00	0.00	0.00	-0.00	-0.01
	7	-0.27	0.03	0.00	0.00	-0.00	-0.04
	8	-0.24	0.02	0.00	0.00	-0.00	-0.04
240	1	-0.09	0.51	0.00	0.00	0.00	-0.02
	2	-0.17	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.02	-0.16	0.00	0.00	0.00	0.01
	5	0.02	-0.06	0.00	0.00	0.00	0.00
	6	-0.06	0.32	0.00	0.00	0.00	-0.01
	7	-0.27	1.27	0.00	0.00	0.00	-0.04
	8	-0.24	1.10	0.00	0.00	0.00	-0.04
241	1	-0.08	0.25	0.00	0.00	0.00	-0.02
	2	-0.16	0.44	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.02	-0.08	0.00	0.00	0.00	0.01
	5	0.02	-0.04	0.00	0.00	0.00	0.00
	6	-0.06	0.15	0.00	0.00	0.00	-0.01
	7	-0.26	0.63	0.00	0.00	0.00	-0.04
	8	-0.23	0.54	0.00	0.00	0.00	-0.04
242	1	-0.08	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.16	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.02	0.07	0.00	-0.00	-0.00	0.01
	5	0.02	0.01	0.00	-0.00	-0.00	0.00
	6	-0.06	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.26	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.23	-0.54	0.00	-0.00	-0.00	-0.04
243	1	-0.08	0.51	0.00	0.00	0.00	-0.02
	2	-0.15	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.02	-0.16	0.00	0.00	0.00	0.01
	5	0.02	-0.06	0.00	0.00	0.00	0.00
	6	-0.06	0.32	0.00	0.00	0.00	-0.01
	7	-0.25	1.27	0.00	0.00	0.00	-0.04
	8	-0.22	1.10	0.00	0.00	0.00	-0.04
244	1	-0.08	0.25	0.00	0.00	0.00	-0.02
	2	-0.15	0.44	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.02	-0.08	0.00	0.00	0.00	0.01
	5	0.02	-0.04	0.00	0.00	0.00	0.00
	6	-0.06	0.15	0.00	0.00	0.00	-0.01
	7	-0.25	0.63	0.00	0.00	0.00	-0.04
	8	-0.22	0.54	0.00	0.00	0.00	-0.04
245	1	-0.08	0.24	0.00	0.00	-0.00	-0.02
	2	-0.15	0.42	0.00	0.00	-0.00	-0.03
	3	-0.01	0.01	0.00	0.00	-0.00	-0.00
	4	0.02	-0.08	0.00	0.00	-0.00	0.01
	5	0.02	-0.03	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.06	0.14	0.00	0.00	-0.00	-0.01
	7	-0.25	0.60	0.00	0.00	-0.00	-0.04
	8	-0.22	0.52	0.00	0.00	-0.00	-0.04
246	1	-0.08	0.23	0.00	0.00	0.00	-0.02
	2	-0.15	0.40	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.02	-0.07	0.00	0.00	0.00	0.01
	5	0.02	-0.03	0.00	0.00	0.00	0.00
	6	-0.06	0.14	0.00	0.00	0.00	-0.01
	7	-0.25	0.57	0.00	0.00	0.00	-0.04
	8	-0.22	0.49	0.00	0.00	0.00	-0.04
247	1	-0.08	0.21	0.00	0.00	0.00	-0.02
	2	-0.15	0.37	0.00	0.00	0.00	-0.03
	3	-0.01	0.01	0.00	0.00	0.00	-0.00
	4	0.02	-0.07	0.00	0.00	0.00	0.01
	5	0.02	-0.03	0.00	0.00	0.00	0.00
	6	-0.06	0.13	0.00	0.00	0.00	-0.01
	7	-0.25	0.54	0.00	0.00	0.00	-0.04
	8	-0.22	0.46	0.00	0.00	0.00	-0.04
248	1	-0.08	0.20	0.00	0.00	-0.00	-0.02
	2	-0.15	0.35	0.00	0.00	-0.00	-0.03
	3	-0.01	0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.06	0.00	0.00	-0.00	0.01
	5	0.02	-0.03	0.00	0.00	-0.00	0.00
	6	-0.06	0.12	0.00	0.00	-0.00	-0.01
	7	-0.25	0.50	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.22	0.43	0.00	0.00	-0.00	-0.04
249	1	-0.08	0.17	0.00	0.00	-0.00	-0.02
	2	-0.15	0.29	0.00	0.00	-0.00	-0.03
	3	-0.01	0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.05	0.00	0.00	-0.00	0.01
	5	0.02	-0.03	0.00	0.00	-0.00	0.00
	6	-0.06	0.10	0.00	0.00	-0.00	-0.01
	7	-0.25	0.42	0.00	0.00	-0.00	-0.04
	8	-0.22	0.36	0.00	0.00	-0.00	-0.04
250	1	-0.08	0.16	0.00	0.00	-0.00	-0.02
	2	-0.15	0.28	0.00	0.00	-0.00	-0.03
	3	-0.01	0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.05	0.00	0.00	-0.00	0.01
	5	0.02	-0.03	0.00	0.00	-0.00	0.00
	6	-0.06	0.09	0.00	0.00	-0.00	-0.01
	7	-0.25	0.40	0.00	0.00	-0.00	-0.04
	8	-0.22	0.34	0.00	0.00	-0.00	-0.04
251	1	-0.08	0.15	0.00	0.00	-0.00	-0.02
	2	-0.15	0.26	0.00	0.00	-0.00	-0.03
	3	-0.01	0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.05	0.00	0.00	-0.00	0.01
	5	0.02	-0.03	0.00	0.00	-0.00	0.00
	6	-0.06	0.09	0.00	0.00	-0.00	-0.01
	7	-0.25	0.38	0.00	0.00	-0.00	-0.04
	8	-0.22	0.32	0.00	0.00	-0.00	-0.04
252	1	-0.08	0.15	0.00	0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.15	0.26	0.00	0.00	0.00	-0.03
	3	-0.01	0.00	0.00	0.00	0.00	-0.00
	4	0.02	-0.05	0.00	0.00	0.00	0.01
	5	0.02	-0.03	0.00	0.00	0.00	0.00
	6	-0.06	0.08	0.00	0.00	0.00	-0.01
	7	-0.25	0.37	0.00	0.00	0.00	-0.04
	8	-0.22	0.32	0.00	0.00	0.00	-0.04
253	1	-0.08	0.14	0.00	0.00	0.00	-0.02
	2	-0.15	0.24	0.00	0.00	0.00	-0.03
	3	-0.01	0.00	0.00	0.00	0.00	-0.00
	4	0.02	-0.05	0.00	0.00	0.00	0.01
	5	0.02	-0.02	0.00	0.00	0.00	0.00
	6	-0.06	0.08	0.00	0.00	0.00	-0.01
	7	-0.25	0.35	0.00	0.00	0.00	-0.04
	8	-0.22	0.30	0.00	0.00	0.00	-0.04
254	1	-0.08	0.13	0.00	0.00	0.00	-0.02
	2	-0.15	0.23	0.00	0.00	0.00	-0.03
	3	-0.01	0.00	0.00	0.00	0.00	-0.00
	4	0.02	-0.04	0.00	0.00	0.00	0.01
	5	0.02	-0.02	0.00	0.00	0.00	0.00
	6	-0.06	0.07	0.00	0.00	0.00	-0.01
	7	-0.25	0.33	0.00	0.00	0.00	-0.04
	8	-0.22	0.28	0.00	0.00	0.00	-0.04
255	1	-0.08	0.10	0.00	0.00	0.00	-0.02
	2	-0.15	0.17	0.00	0.00	0.00	-0.03
	3	-0.01	0.00	0.00	0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.02	-0.03	0.00	0.00	0.00	0.01
	5	0.02	-0.02	0.00	0.00	0.00	0.00
	6	-0.06	0.05	0.00	0.00	0.00	-0.01
	7	-0.25	0.24	0.00	0.00	0.00	-0.04
	8	-0.22	0.21	0.00	0.00	0.00	-0.04
256	1	-0.08	0.06	0.00	0.00	-0.00	-0.02
	2	-0.15	0.10	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.02	0.00	0.00	-0.00	0.01
	5	0.02	-0.02	0.00	0.00	-0.00	0.00
	6	-0.06	0.03	0.00	0.00	-0.00	-0.01
	7	-0.25	0.15	0.00	0.00	-0.00	-0.04
	8	-0.22	0.13	0.00	0.00	-0.00	-0.04
257	1	-0.08	0.02	0.00	0.00	-0.00	-0.02
	2	-0.15	0.04	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.01	0.00	0.00	-0.00	0.01
	5	0.02	-0.01	0.00	0.00	-0.00	0.00
	6	-0.06	0.01	0.00	0.00	-0.00	-0.01
	7	-0.25	0.07	0.00	0.00	-0.00	-0.04
	8	-0.22	0.05	0.00	0.00	-0.00	-0.04
258	1	-0.08	0.02	0.00	0.00	-0.00	-0.02
	2	-0.15	0.03	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.01	0.00	0.00	-0.00	0.01
	5	0.02	-0.01	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.06	0.00	0.00	0.00	-0.00	-0.01
	7	-0.25	0.05	0.00	0.00	-0.00	-0.04
	8	-0.22	0.04	0.00	0.00	-0.00	-0.04
259	1	-0.08	0.01	0.00	0.00	-0.00	-0.02
	2	-0.15	0.02	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.01	0.00	0.00	-0.00	0.01
	5	0.02	-0.01	0.00	0.00	-0.00	0.00
	6	-0.06	-0.00	0.00	0.00	-0.00	-0.01
	7	-0.25	0.04	0.00	0.00	-0.00	-0.04
	8	-0.22	0.03	0.00	0.00	-0.00	-0.04
260	1	-0.08	0.01	0.00	0.00	-0.00	-0.02
	2	-0.15	0.02	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.01	0.00	0.00	-0.00	0.01
	5	0.02	-0.01	0.00	0.00	-0.00	0.00
	6	-0.06	-0.00	0.00	0.00	-0.00	-0.01
	7	-0.25	0.03	0.00	0.00	-0.00	-0.04
	8	-0.22	0.02	0.00	0.00	-0.00	-0.04
261	1	-0.08	-0.36	0.00	-0.00	0.00	-0.02
	2	-0.15	-0.61	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.02	0.10	0.00	-0.00	0.00	0.01
	5	0.02	0.02	0.00	-0.00	0.00	0.00
	6	-0.06	-0.24	0.00	-0.00	0.00	-0.01
	7	-0.25	-0.87	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.22	-0.76	0.00	-0.00	0.00	-0.04
262	1	-0.08	-0.39	0.00	-0.00	0.00	-0.02
	2	-0.15	-0.66	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.02	0.11	0.00	-0.00	0.00	0.01
	5	0.02	0.02	0.00	-0.00	0.00	0.00
	6	-0.06	-0.25	0.00	-0.00	0.00	-0.01
	7	-0.25	-0.95	0.00	-0.00	0.00	-0.04
	8	-0.22	-0.82	0.00	-0.00	0.00	-0.04
263	1	-0.08	-0.43	0.00	-0.00	0.00	-0.02
	2	-0.15	-0.74	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.02	0.12	0.00	-0.00	0.00	0.01
	5	0.02	0.03	0.00	-0.00	0.00	0.00
	6	-0.06	-0.28	0.00	-0.00	0.00	-0.01
	7	-0.25	-1.06	0.00	-0.00	0.00	-0.04
	8	-0.22	-0.92	0.00	-0.00	0.00	-0.04
264	1	-0.08	-0.47	0.00	-0.00	-0.00	-0.02
	2	-0.15	-0.82	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	0.02	0.13	0.00	-0.00	-0.00	0.01
	5	0.02	0.03	0.00	-0.00	-0.00	0.00
	6	-0.06	-0.31	0.00	-0.00	-0.00	-0.01
	7	-0.25	-1.17	0.00	-0.00	-0.00	-0.04
	8	-0.22	-1.01	0.00	-0.00	-0.00	-0.04
265	1	-0.08	-0.50	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.15	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	0.02	0.14	0.00	-0.00	-0.00	0.01
	5	0.02	0.04	0.00	-0.00	-0.00	0.00
	6	-0.06	-0.33	0.00	-0.00	-0.00	-0.01
	7	-0.25	-1.24	0.00	-0.00	-0.00	-0.04
	8	-0.22	-1.08	0.00	-0.00	-0.00	-0.04
266	1	-0.08	0.19	0.00	0.00	0.00	-0.02
	2	-0.15	0.33	0.00	0.00	0.00	-0.03
	3	-0.01	0.00	0.00	0.00	0.00	-0.00
	4	0.02	-0.06	0.00	0.00	0.00	0.01
	5	0.02	-0.03	0.00	0.00	0.00	0.00
	6	-0.06	0.11	0.00	0.00	0.00	-0.01
	7	-0.25	0.47	0.00	0.00	0.00	-0.04
	8	-0.22	0.41	0.00	0.00	0.00	-0.04
267	1	-0.08	0.18	0.00	0.00	0.00	-0.02
	2	-0.15	0.31	0.00	0.00	0.00	-0.03
	3	-0.01	0.00	0.00	0.00	0.00	-0.00
	4	0.02	-0.06	0.00	0.00	0.00	0.01
	5	0.02	-0.03	0.00	0.00	0.00	0.00
	6	-0.06	0.10	0.00	0.00	0.00	-0.01
	7	-0.25	0.45	0.00	0.00	0.00	-0.04
	8	-0.22	0.38	0.00	0.00	0.00	-0.04
268	1	-0.08	0.12	0.00	0.00	-0.00	-0.02
	2	-0.15	0.21	0.00	0.00	-0.00	-0.03
	3	-0.01	0.00	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.02	-0.04	0.00	0.00	-0.00	0.01
	5	0.02	-0.02	0.00	0.00	-0.00	0.00
	6	-0.06	0.07	0.00	0.00	-0.00	-0.01
	7	-0.25	0.30	0.00	0.00	-0.00	-0.04
	8	-0.22	0.26	0.00	0.00	-0.00	-0.04
269	1	-0.08	0.11	0.00	0.00	-0.00	-0.02
	2	-0.15	0.19	0.00	0.00	-0.00	-0.03
	3	-0.01	0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.04	0.00	0.00	-0.00	0.01
	5	0.02	-0.02	0.00	0.00	-0.00	0.00
	6	-0.06	0.06	0.00	0.00	-0.00	-0.01
	7	-0.25	0.27	0.00	0.00	-0.00	-0.04
	8	-0.22	0.23	0.00	0.00	-0.00	-0.04
270	1	-0.08	0.08	0.00	0.00	-0.00	-0.02
	2	-0.15	0.15	0.00	0.00	-0.00	-0.03
	3	-0.01	0.00	0.00	0.00	-0.00	-0.00
	4	0.02	-0.03	0.00	0.00	-0.00	0.01
	5	0.02	-0.02	0.00	0.00	-0.00	0.00
	6	-0.06	0.04	0.00	0.00	-0.00	-0.01
	7	-0.25	0.21	0.00	0.00	-0.00	-0.04
	8	-0.22	0.18	0.00	0.00	-0.00	-0.04
271	1	-0.08	0.07	0.00	0.00	0.00	-0.02
	2	-0.15	0.13	0.00	0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	0.00	-0.00
	4	0.02	-0.03	0.00	0.00	0.00	0.01
	5	0.02	-0.02	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.06	0.04	0.00	0.00	0.00	-0.01
	7	-0.25	0.18	0.00	0.00	0.00	-0.04
	8	-0.22	0.15	0.00	0.00	0.00	-0.04
272	1	-0.08	0.05	0.00	0.00	0.00	-0.02
	2	-0.15	0.08	0.00	0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	0.00	-0.00
	4	0.02	-0.02	0.00	0.00	0.00	0.01
	5	0.02	-0.02	0.00	0.00	0.00	0.00
	6	-0.06	0.02	0.00	0.00	0.00	-0.01
	7	-0.25	0.12	0.00	0.00	0.00	-0.04
	8	-0.22	0.10	0.00	0.00	0.00	-0.04
273	1	-0.08	0.04	0.00	0.00	0.00	-0.02
	2	-0.15	0.06	0.00	0.00	0.00	-0.03
	3	-0.01	-0.00	0.00	0.00	0.00	-0.00
	4	0.02	-0.02	0.00	0.00	0.00	0.01
	5	0.02	-0.01	0.00	0.00	0.00	0.00
	6	-0.06	0.01	0.00	0.00	0.00	-0.01
	7	-0.25	0.09	0.00	0.00	0.00	-0.04
	8	-0.22	0.08	0.00	0.00	0.00	-0.04
274	1	-0.08	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.15	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.02	0.07	0.00	-0.00	-0.00	0.01
	5	0.02	0.01	0.00	-0.00	-0.00	0.00
	6	-0.06	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.25	-0.61	0.00	-0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.22	-0.54	0.00	-0.00	-0.00	-0.04
275	1	-0.08	-0.35	0.00	-0.00	0.00	-0.02
	2	-0.15	-0.61	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.02	0.10	0.00	-0.00	0.00	0.01
	5	0.02	0.02	0.00	-0.00	0.00	0.00
	6	-0.06	-0.23	0.00	-0.00	0.00	-0.01
	7	-0.25	-0.86	0.00	-0.00	0.00	-0.04
	8	-0.22	-0.75	0.00	-0.00	0.00	-0.04
276	1	-0.08	-0.40	0.00	-0.00	-0.00	-0.02
	2	-0.15	-0.69	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	0.02	0.11	0.00	-0.00	-0.00	0.01
	5	0.02	0.03	0.00	-0.00	-0.00	0.00
	6	-0.06	-0.26	0.00	-0.00	-0.00	-0.01
	7	-0.25	-0.98	0.00	-0.00	-0.00	-0.04
	8	-0.22	-0.85	0.00	-0.00	-0.00	-0.04
277	1	-0.08	-0.42	0.00	-0.00	0.00	-0.02
	2	-0.15	-0.72	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.02	0.11	0.00	-0.00	0.00	0.01
	5	0.02	0.03	0.00	-0.00	0.00	0.00
	6	-0.06	-0.27	0.00	-0.00	0.00	-0.01
	7	-0.25	-1.02	0.00	-0.00	0.00	-0.04
	8	-0.22	-0.89	0.00	-0.00	0.00	-0.04
278	1	-0.08	-0.44	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.15	-0.77	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	0.02	0.12	0.00	-0.00	-0.00	0.01
	5	0.02	0.03	0.00	-0.00	-0.00	0.00
	6	-0.06	-0.29	0.00	-0.00	-0.00	-0.01
	7	-0.25	-1.09	0.00	-0.00	-0.00	-0.04
	8	-0.22	-0.95	0.00	-0.00	-0.00	-0.04
279	1	-0.08	-0.46	0.00	-0.00	0.00	-0.02
	2	-0.15	-0.79	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.02	0.13	0.00	-0.00	0.00	0.01
	5	0.02	0.03	0.00	-0.00	0.00	0.00
	6	-0.06	-0.30	0.00	-0.00	0.00	-0.01
	7	-0.25	-1.13	0.00	-0.00	0.00	-0.04
	8	-0.22	-0.98	0.00	-0.00	0.00	-0.04
280	1	-0.08	0.51	0.00	-0.00	0.00	-0.02
	2	-0.15	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	0.02	-0.16	0.00	-0.00	0.00	0.01
	5	0.02	-0.06	0.00	-0.00	0.00	0.00
	6	-0.05	0.32	0.00	-0.00	0.00	-0.01
	7	-0.25	1.27	0.00	-0.00	0.00	-0.04
	8	-0.22	1.10	0.00	-0.00	0.00	-0.04
281	1	-0.08	-0.50	0.00	-0.00	-0.00	-0.02
	2	-0.15	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.02	0.14	0.00	-0.00	-0.00	0.01
	5	0.02	0.04	0.00	-0.00	-0.00	0.00
	6	-0.05	-0.33	0.00	-0.00	-0.00	-0.01
	7	-0.25	-1.24	0.00	-0.00	-0.00	-0.04
	8	-0.22	-1.08	0.00	-0.00	-0.00	-0.04
282	1	-0.07	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.14	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.02	0.07	0.00	-0.00	-0.00	0.01
	5	0.02	0.01	0.00	-0.00	-0.00	0.00
	6	-0.05	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.23	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.20	-0.54	0.00	-0.00	-0.00	-0.04
283	1	-0.07	-0.35	0.00	0.00	0.00	-0.02
	2	-0.14	-0.61	0.00	0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	0.00	-0.00
	4	0.02	0.10	0.00	0.00	0.00	0.01
	5	0.02	0.02	0.00	0.00	0.00	0.00
	6	-0.05	-0.23	0.00	0.00	0.00	-0.01
	7	-0.23	-0.86	0.00	0.00	0.00	-0.04
	8	-0.20	-0.75	0.00	0.00	0.00	-0.04
284	1	-0.07	-0.50	0.00	0.00	-0.00	-0.02
	2	-0.13	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	0.02	0.14	0.00	0.00	-0.00	0.01
	5	0.01	0.04	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.05	-0.33	0.00	0.00	-0.00	-0.01
	7	-0.22	-1.24	0.00	0.00	-0.00	-0.04
	8	-0.20	-1.08	0.00	0.00	-0.00	-0.04
285	1	-0.07	0.51	0.00	0.00	0.00	-0.02
	2	-0.13	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.02	-0.16	0.00	0.00	0.00	0.01
	5	0.01	-0.06	0.00	0.00	0.00	0.00
	6	-0.05	0.32	0.00	0.00	0.00	-0.01
	7	-0.22	1.27	0.00	0.00	0.00	-0.04
	8	-0.20	1.10	0.00	0.00	0.00	-0.04
286	1	-0.06	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.12	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	0.01	0.07	0.00	0.00	-0.00	0.01
	5	0.01	0.01	0.00	0.00	-0.00	0.00
	6	-0.04	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.21	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.18	-0.54	0.00	0.00	-0.00	-0.04
287	1	-0.06	-0.35	0.00	-0.00	0.00	-0.02
	2	-0.12	-0.61	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.01	0.10	0.00	-0.00	0.00	0.01
	5	0.01	0.02	0.00	-0.00	0.00	0.00
	6	-0.04	-0.23	0.00	-0.00	0.00	-0.01
	7	-0.21	-0.86	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.18	-0.75	0.00	-0.00	0.00	-0.04
288	1	-0.06	0.51	0.00	-0.00	0.00	-0.02
	2	-0.12	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	0.01	-0.16	0.00	-0.00	0.00	0.01
	5	0.01	-0.06	0.00	-0.00	0.00	0.00
	6	-0.04	0.32	0.00	-0.00	0.00	-0.01
	7	-0.20	1.27	0.00	-0.00	0.00	-0.04
	8	-0.18	1.10	0.00	-0.00	0.00	-0.04
289	1	-0.06	-0.50	0.00	-0.00	-0.00	-0.02
	2	-0.12	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	0.01	0.14	0.00	-0.00	-0.00	0.01
	5	0.01	0.04	0.00	-0.00	-0.00	0.00
	6	-0.04	-0.33	0.00	-0.00	-0.00	-0.01
	7	-0.20	-1.24	0.00	-0.00	-0.00	-0.04
	8	-0.18	-1.08	0.00	-0.00	-0.00	-0.04
290	1	-0.05	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.10	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.01	0.07	0.00	-0.00	-0.00	0.01
	5	0.01	0.01	0.00	-0.00	-0.00	0.00
	6	-0.04	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.18	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.16	-0.54	0.00	-0.00	-0.00	-0.04
291	1	-0.05	-0.35	0.00	0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.10	-0.61	0.00	0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	0.00	-0.00
	4	0.01	0.10	0.00	0.00	0.00	0.01
	5	0.01	0.02	0.00	0.00	0.00	0.00
	6	-0.04	-0.23	0.00	0.00	0.00	-0.01
	7	-0.18	-0.86	0.00	0.00	0.00	-0.04
	8	-0.16	-0.75	0.00	0.00	0.00	-0.04
292	1	-0.05	0.51	0.00	0.00	0.00	-0.02
	2	-0.10	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.01	-0.16	0.00	0.00	0.00	0.01
	5	0.01	-0.06	0.00	0.00	0.00	0.00
	6	-0.04	0.32	0.00	0.00	0.00	-0.01
	7	-0.17	1.27	0.00	0.00	0.00	-0.04
	8	-0.15	1.10	0.00	0.00	0.00	-0.04
293	1	-0.05	-0.50	0.00	0.00	-0.00	-0.02
	2	-0.10	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	0.01	0.14	0.00	0.00	-0.00	0.01
	5	0.01	0.04	0.00	0.00	-0.00	0.00
	6	-0.04	-0.33	0.00	0.00	-0.00	-0.01
	7	-0.17	-1.24	0.00	0.00	-0.00	-0.04
	8	-0.15	-1.08	0.00	0.00	-0.00	-0.04
294	1	-0.04	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.09	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	0.01	0.07	0.00	0.00	-0.00	0.01
	5	0.01	0.01	0.00	0.00	-0.00	0.00
	6	-0.03	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.16	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.14	-0.54	0.00	0.00	-0.00	-0.04
295	1	-0.04	-0.35	0.00	0.00	0.00	-0.02
	2	-0.09	-0.61	0.00	0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	0.00	-0.00
	4	0.01	0.10	0.00	0.00	0.00	0.01
	5	0.01	0.02	0.00	0.00	0.00	0.00
	6	-0.03	-0.23	0.00	0.00	0.00	-0.01
	7	-0.16	-0.86	0.00	0.00	0.00	-0.04
	8	-0.14	-0.75	0.00	0.00	0.00	-0.04
296	1	-0.04	0.51	0.00	0.00	0.00	-0.02
	2	-0.08	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	0.01	-0.16	0.00	0.00	0.00	0.01
	5	0.01	-0.06	0.00	0.00	0.00	0.00
	6	-0.03	0.32	0.00	0.00	0.00	-0.01
	7	-0.14	1.27	0.00	0.00	0.00	-0.04
	8	-0.13	1.10	0.00	0.00	0.00	-0.04
297	1	-0.04	-0.50	0.00	0.00	-0.00	-0.02
	2	-0.08	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	0.01	0.14	0.00	0.00	-0.00	0.01
	5	0.01	0.04	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.03	-0.33	0.00	0.00	-0.00	-0.01
	7	-0.14	-1.24	0.00	0.00	-0.00	-0.04
	8	-0.13	-1.08	0.00	0.00	-0.00	-0.04
298	1	-0.03	-0.25	0.00	-0.00	-0.00	-0.02
	2	-0.07	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	0.00	0.07	0.00	-0.00	-0.00	0.01
	5	0.01	0.01	0.00	-0.00	-0.00	0.00
	6	-0.03	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.14	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.12	-0.54	0.00	-0.00	-0.00	-0.04
299	1	-0.03	-0.35	0.00	-0.00	0.00	-0.02
	2	-0.07	-0.61	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	0.00	0.10	0.00	-0.00	0.00	0.01
	5	0.01	0.02	0.00	-0.00	0.00	0.00
	6	-0.03	-0.23	0.00	-0.00	0.00	-0.01
	7	-0.13	-0.86	0.00	-0.00	0.00	-0.04
	8	-0.12	-0.75	0.00	-0.00	0.00	-0.04
300	1	-0.03	0.51	0.00	-0.00	0.00	-0.02
	2	-0.06	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	0.00	-0.16	0.00	-0.00	0.00	0.01
	5	0.01	-0.06	0.00	-0.00	0.00	0.00
	6	-0.02	0.32	0.00	-0.00	0.00	-0.01
	7	-0.12	1.27	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.11	1.10	0.00	-0.00	0.00	-0.04
301	1	-0.02	-0.50	0.00	-0.00	-0.00	-0.02
	2	-0.06	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	0.00	0.14	0.00	-0.00	-0.00	0.01
	5	0.01	0.04	0.00	-0.00	-0.00	0.00
	6	-0.02	-0.33	0.00	-0.00	-0.00	-0.01
	7	-0.11	-1.24	0.00	-0.00	-0.00	-0.04
	8	-0.10	-1.08	0.00	-0.00	-0.00	-0.04
302	1	-0.02	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.05	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	0.00	0.07	0.00	0.00	-0.00	0.01
	5	0.01	0.01	0.00	0.00	-0.00	0.00
	6	-0.02	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.11	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.10	-0.54	0.00	0.00	-0.00	-0.04
303	1	-0.02	-0.35	0.00	0.00	0.00	-0.02
	2	-0.05	-0.61	0.00	0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	0.00	-0.00
	4	0.00	0.10	0.00	0.00	0.00	0.01
	5	0.01	0.02	0.00	0.00	0.00	0.00
	6	-0.02	-0.23	0.00	0.00	0.00	-0.01
	7	-0.11	-0.86	0.00	0.00	0.00	-0.04
	8	-0.10	-0.75	0.00	0.00	0.00	-0.04
304	1	-0.01	-0.25	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	-0.04	-0.43	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.00	0.07	0.00	-0.00	-0.00	0.01
	5	0.01	0.01	0.00	-0.00	-0.00	0.00
	6	-0.01	-0.17	0.00	-0.00	-0.00	-0.01
	7	-0.09	-0.61	0.00	-0.00	-0.00	-0.04
	8	-0.08	-0.54	0.00	-0.00	-0.00	-0.04
305	1	-0.01	-0.35	0.00	-0.00	0.00	-0.02
	2	-0.04	-0.61	0.00	-0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	0.00	-0.00
	4	-0.00	0.10	0.00	-0.00	0.00	0.01
	5	0.01	0.02	0.00	-0.00	0.00	0.00
	6	-0.01	-0.23	0.00	-0.00	0.00	-0.01
	7	-0.09	-0.86	0.00	-0.00	0.00	-0.04
	8	-0.08	-0.75	0.00	-0.00	0.00	-0.04
306	1	-0.01	0.51	0.00	0.00	0.00	-0.02
	2	-0.04	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	-0.00	-0.16	0.00	0.00	0.00	0.01
	5	0.01	-0.06	0.00	0.00	0.00	0.00
	6	-0.01	0.32	0.00	0.00	0.00	-0.01
	7	-0.09	1.27	0.00	0.00	0.00	-0.04
	8	-0.08	1.10	0.00	0.00	0.00	-0.04
307	1	-0.01	-0.50	0.00	0.00	-0.00	-0.02
	2	-0.04	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.00	0.14	0.00	0.00	-0.00	0.01
	5	0.01	0.04	0.00	0.00	-0.00	0.00
	6	-0.01	-0.33	0.00	0.00	-0.00	-0.01
	7	-0.08	-1.24	0.00	0.00	-0.00	-0.04
	8	-0.08	-1.08	0.00	0.00	-0.00	-0.04
308	1	-0.00	-0.25	0.00	0.00	-0.00	-0.02
	2	-0.02	-0.43	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	-0.00	0.07	0.00	0.00	-0.00	0.01
	5	0.01	0.01	0.00	0.00	-0.00	0.00
	6	-0.01	-0.17	0.00	0.00	-0.00	-0.01
	7	-0.06	-0.61	0.00	0.00	-0.00	-0.04
	8	-0.06	-0.54	0.00	0.00	-0.00	-0.04
309	1	-0.00	-0.35	0.00	0.00	0.00	-0.02
	2	-0.02	-0.61	0.00	0.00	0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	0.00	-0.00
	4	-0.00	0.10	0.00	0.00	0.00	0.01
	5	0.01	0.02	0.00	0.00	0.00	0.00
	6	-0.01	-0.23	0.00	0.00	0.00	-0.01
	7	-0.06	-0.86	0.00	0.00	0.00	-0.04
	8	-0.06	-0.75	0.00	0.00	0.00	-0.04
310	1	-0.00	0.51	0.00	-0.00	0.00	-0.02
	2	-0.02	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	-0.00	-0.16	0.00	-0.00	0.00	0.01
	5	0.01	-0.06	0.00	-0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	-0.01	0.32	0.00	-0.00	0.00	-0.01
	7	-0.06	1.27	0.00	-0.00	0.00	-0.04
	8	-0.05	1.10	0.00	-0.00	0.00	-0.04
311	1	-0.00	-0.50	0.00	-0.00	-0.00	-0.02
	2	-0.01	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.00	0.14	0.00	-0.00	-0.00	0.01
	5	0.01	0.04	0.00	-0.00	-0.00	0.00
	6	-0.01	-0.33	0.00	-0.00	-0.00	-0.01
	7	-0.05	-1.24	0.00	-0.00	-0.00	-0.04
	8	-0.05	-1.08	0.00	-0.00	-0.00	-0.04
312	1	0.01	0.51	0.00	0.00	0.00	-0.02
	2	0.01	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	-0.01	-0.16	0.00	0.00	0.00	0.01
	5	0.01	-0.06	0.00	0.00	0.00	0.00
	6	0.00	0.32	0.00	0.00	0.00	-0.01
	7	-0.03	1.27	0.00	0.00	0.00	-0.04
	8	-0.03	1.10	0.00	0.00	0.00	-0.04
313	1	0.01	-0.50	0.00	0.00	-0.00	-0.02
	2	0.01	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.01	0.14	0.00	0.00	-0.00	0.01
	5	0.01	0.04	0.00	0.00	-0.00	0.00
	6	0.00	-0.33	0.00	0.00	-0.00	-0.01
	7	-0.02	-1.24	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	-0.03	-1.08	0.00	0.00	-0.00	-0.04
314	1	0.02	0.51	0.00	-0.00	0.00	-0.02
	2	0.03	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	-0.01	-0.16	0.00	-0.00	0.00	0.01
	5	0.01	-0.06	0.00	-0.00	0.00	0.00
	6	0.01	0.32	0.00	-0.00	0.00	-0.01
	7	0.00	1.27	0.00	-0.00	0.00	-0.04
	8	-0.00	1.10	0.00	-0.00	0.00	-0.04
315	1	0.02	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.03	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.01	0.14	0.00	-0.00	-0.00	0.01
	5	0.01	0.04	0.00	-0.00	-0.00	0.00
	6	0.01	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.00	-1.24	0.00	-0.00	-0.00	-0.04
	8	-0.00	-1.08	0.00	-0.00	-0.00	-0.04
316	1	0.03	0.51	0.00	0.00	0.00	-0.02
	2	0.05	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00
	4	-0.01	-0.16	0.00	0.00	0.00	0.01
	5	0.01	-0.06	0.00	0.00	0.00	0.00
	6	0.02	0.32	0.00	0.00	0.00	-0.01
	7	0.03	1.27	0.00	0.00	0.00	-0.04
	8	0.02	1.10	0.00	0.00	0.00	-0.04
317	1	0.03	-0.50	0.00	0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.05	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.02	0.14	0.00	0.00	-0.00	0.01
	5	0.01	0.04	0.00	0.00	-0.00	0.00
	6	0.02	-0.33	0.00	0.00	-0.00	-0.01
	7	0.03	-1.24	0.00	0.00	-0.00	-0.04
	8	0.02	-1.08	0.00	0.00	-0.00	-0.04
318	1	0.05	0.51	0.00	-0.00	0.00	-0.02
	2	0.07	0.89	0.00	-0.00	0.00	-0.03
	3	-0.01	0.02	0.00	-0.00	0.00	-0.00
	4	-0.02	-0.16	0.00	-0.00	0.00	0.01
	5	0.00	-0.06	0.00	-0.00	0.00	0.00
	6	0.02	0.32	0.00	-0.00	0.00	-0.01
	7	0.06	1.27	0.00	-0.00	0.00	-0.04
	8	0.05	1.10	0.00	-0.00	0.00	-0.04
319	1	0.05	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.07	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.02	0.14	0.00	-0.00	-0.00	0.01
	5	0.00	0.04	0.00	-0.00	-0.00	0.00
	6	0.02	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.06	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.05	-1.08	0.00	-0.00	-0.00	-0.04
320	1	0.06	0.51	0.00	0.00	0.00	-0.02
	2	0.09	0.89	0.00	0.00	0.00	-0.03
	3	-0.01	0.02	0.00	0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.02	-0.16	0.00	0.00	0.00	0.01
	5	0.00	-0.06	0.00	0.00	0.00	0.00
	6	0.03	0.32	0.00	0.00	0.00	-0.01
	7	0.09	1.27	0.00	0.00	0.00	-0.04
	8	0.07	1.10	0.00	0.00	0.00	-0.04
321	1	0.06	-0.50	0.00	0.00	-0.00	-0.02
	2	0.09	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.02	0.14	0.00	0.00	-0.00	0.01
	5	0.00	0.04	0.00	0.00	-0.00	0.00
	6	0.03	-0.33	0.00	0.00	-0.00	-0.01
	7	0.09	-1.24	0.00	0.00	-0.00	-0.04
	8	0.07	-1.08	0.00	0.00	-0.00	-0.04
322	1	0.07	0.51	0.00	-0.00	0.00	-0.02
	2	0.11	0.89	0.00	-0.00	0.00	-0.03
	3	-0.00	0.02	0.00	-0.00	0.00	-0.00
	4	-0.03	-0.16	0.00	-0.00	0.00	0.01
	5	0.00	-0.06	0.00	-0.00	0.00	0.00
	6	0.04	0.32	0.00	-0.00	0.00	-0.01
	7	0.12	1.27	0.00	-0.00	0.00	-0.04
	8	0.10	1.10	0.00	-0.00	0.00	-0.04
323	1	0.07	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.11	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.03	0.14	0.00	-0.00	-0.00	0.01
	5	0.00	0.04	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.04	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.12	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.10	-1.08	0.00	-0.00	-0.00	-0.04
324	1	0.08	0.51	0.00	0.00	0.00	-0.02
	2	0.13	0.89	0.00	0.00	0.00	-0.03
	3	-0.00	0.02	0.00	0.00	0.00	-0.00
	4	-0.03	-0.16	0.00	0.00	0.00	0.01
	5	0.00	-0.06	0.00	0.00	0.00	0.00
	6	0.05	0.32	0.00	0.00	0.00	-0.01
	7	0.15	1.27	0.00	0.00	0.00	-0.04
	8	0.13	1.10	0.00	0.00	0.00	-0.04
325	1	0.08	-0.50	0.00	0.00	-0.00	-0.02
	2	0.13	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.03	0.14	0.00	0.00	-0.00	0.01
	5	0.00	0.04	0.00	0.00	-0.00	0.00
	6	0.05	-0.33	0.00	0.00	-0.00	-0.01
	7	0.15	-1.24	0.00	0.00	-0.00	-0.04
	8	0.13	-1.08	0.00	0.00	-0.00	-0.04
326	1	0.09	0.51	0.00	-0.00	0.00	-0.02
	2	0.15	0.89	0.00	-0.00	0.00	-0.03
	3	-0.00	0.02	0.00	-0.00	0.00	-0.00
	4	-0.03	-0.16	0.00	-0.00	0.00	0.01
	5	-0.00	-0.06	0.00	-0.00	0.00	0.00
	6	0.05	0.32	0.00	-0.00	0.00	-0.01
	7	0.18	1.27	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.15	1.10	0.00	-0.00	0.00	-0.04
327	1	0.09	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.15	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.03	0.14	0.00	-0.00	-0.00	0.01
	5	-0.00	0.04	0.00	-0.00	-0.00	0.00
	6	0.05	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.18	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.15	-1.08	0.00	-0.00	-0.00	-0.04
328	1	0.11	0.51	0.00	-0.00	0.00	-0.02
	2	0.17	0.89	0.00	-0.00	0.00	-0.03
	3	-0.00	0.02	0.00	-0.00	0.00	-0.00
	4	-0.04	-0.16	0.00	-0.00	0.00	0.01
	5	-0.00	-0.06	0.00	-0.00	0.00	0.00
	6	0.06	0.32	0.00	-0.00	0.00	-0.01
	7	0.21	1.27	0.00	-0.00	0.00	-0.04
	8	0.18	1.10	0.00	-0.00	0.00	-0.04
329	1	0.11	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.17	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.04	0.14	0.00	-0.00	-0.00	0.01
	5	-0.00	0.04	0.00	-0.00	-0.00	0.00
	6	0.06	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.21	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.18	-1.08	0.00	-0.00	-0.00	-0.04
330	1	0.12	0.51	0.00	0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.19	0.89	0.00	0.00	0.00	-0.03
	3	-0.00	0.02	0.00	0.00	0.00	-0.00
	4	-0.04	-0.16	0.00	0.00	0.00	0.01
	5	-0.00	-0.06	0.00	0.00	0.00	0.00
	6	0.07	0.32	0.00	0.00	0.00	-0.01
	7	0.24	1.27	0.00	0.00	0.00	-0.04
	8	0.20	1.10	0.00	0.00	0.00	-0.04
331	1	0.12	-0.50	0.00	0.00	-0.00	-0.02
	2	0.19	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.04	0.14	0.00	0.00	-0.00	0.01
	5	-0.00	0.04	0.00	0.00	-0.00	0.00
	6	0.07	-0.33	0.00	0.00	-0.00	-0.01
	7	0.24	-1.24	0.00	0.00	-0.00	-0.04
	8	0.20	-1.08	0.00	0.00	-0.00	-0.04
332	1	0.13	-0.50	0.00	0.00	-0.00	-0.02
	2	0.20	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.04	0.14	0.00	0.00	-0.00	0.01
	5	-0.00	0.04	0.00	0.00	-0.00	0.00
	6	0.07	-0.33	0.00	0.00	-0.00	-0.01
	7	0.26	-1.24	0.00	0.00	-0.00	-0.04
	8	0.22	-1.08	0.00	0.00	-0.00	-0.04
333	1	0.13	0.51	0.00	-0.00	0.00	-0.02
	2	0.20	0.89	0.00	-0.00	0.00	-0.03
	3	-0.00	0.02	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.04	-0.16	0.00	-0.00	0.00	0.01
	5	-0.00	-0.06	0.00	-0.00	0.00	0.00
	6	0.08	0.32	0.00	-0.00	0.00	-0.01
	7	0.26	1.27	0.00	-0.00	0.00	-0.04
	8	0.22	1.10	0.00	-0.00	0.00	-0.04
334	1	0.13	-0.50	0.00	0.00	-0.00	-0.02
	2	0.22	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.04	0.14	0.00	0.00	-0.00	0.01
	5	-0.00	0.04	0.00	0.00	-0.00	0.00
	6	0.08	-0.33	0.00	0.00	-0.00	-0.01
	7	0.28	-1.24	0.00	0.00	-0.00	-0.04
	8	0.24	-1.08	0.00	0.00	-0.00	-0.04
335	1	0.14	0.51	0.00	0.00	0.00	-0.02
	2	0.22	0.89	0.00	0.00	0.00	-0.03
	3	-0.00	0.02	0.00	0.00	0.00	-0.00
	4	-0.04	-0.16	0.00	0.00	0.00	0.01
	5	-0.00	-0.06	0.00	0.00	0.00	0.00
	6	0.08	0.32	0.00	0.00	0.00	-0.01
	7	0.28	1.27	0.00	0.00	0.00	-0.04
	8	0.24	1.10	0.00	0.00	0.00	-0.04
336	1	0.14	-0.50	0.00	0.00	-0.00	-0.02
	2	0.22	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.04	0.14	0.00	0.00	-0.00	0.01
	5	-0.00	0.04	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.08	-0.33	0.00	0.00	-0.00	-0.01
	7	0.28	-1.24	0.00	0.00	-0.00	-0.04
	8	0.24	-1.08	0.00	0.00	-0.00	-0.04
337	1	0.14	0.00	0.00	-0.00	0.00	-0.02
	2	0.23	0.00	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.01	0.00	-0.00	0.00	0.01
	5	-0.00	-0.01	0.00	-0.00	0.00	0.00
	6	0.08	-0.01	0.00	-0.00	0.00	-0.01
	7	0.29	0.01	0.00	-0.00	0.00	-0.04
	8	0.25	0.00	0.00	-0.00	0.00	-0.04
338	1	0.14	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.14	0.00	-0.00	-0.00	0.01
	5	-0.00	0.04	0.00	-0.00	-0.00	0.00
	6	0.08	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.29	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.25	-1.08	0.00	-0.00	-0.00	-0.04
339	1	0.14	0.51	0.00	0.00	0.00	-0.02
	2	0.23	0.89	0.00	0.00	0.00	-0.03
	3	-0.00	0.02	0.00	0.00	0.00	-0.00
	4	-0.05	-0.16	0.00	0.00	0.00	0.01
	5	-0.00	-0.06	0.00	0.00	0.00	0.00
	6	0.08	0.32	0.00	0.00	0.00	-0.01
	7	0.29	1.27	0.00	0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.25	1.10	0.00	0.00	0.00	-0.04
340	1	0.14	0.50	0.00	0.00	-0.00	-0.02
	2	0.23	0.87	0.00	0.00	-0.00	-0.03
	3	-0.00	0.02	0.00	0.00	-0.00	-0.00
	4	-0.05	-0.15	0.00	0.00	-0.00	0.01
	5	-0.00	-0.06	0.00	0.00	-0.00	0.00
	6	0.08	0.31	0.00	0.00	-0.00	-0.01
	7	0.29	1.25	0.00	0.00	-0.00	-0.04
	8	0.25	1.08	0.00	0.00	-0.00	-0.04
341	1	0.14	0.49	0.00	0.00	0.00	-0.02
	2	0.23	0.85	0.00	0.00	0.00	-0.03
	3	-0.00	0.02	0.00	0.00	0.00	-0.00
	4	-0.05	-0.15	0.00	0.00	0.00	0.01
	5	-0.00	-0.06	0.00	0.00	0.00	0.00
	6	0.08	0.30	0.00	0.00	0.00	-0.01
	7	0.29	1.22	0.00	0.00	0.00	-0.04
	8	0.25	1.05	0.00	0.00	0.00	-0.04
342	1	0.14	0.46	0.00	0.00	0.00	-0.02
	2	0.23	0.79	0.00	0.00	0.00	-0.03
	3	-0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.05	-0.14	0.00	0.00	0.00	0.01
	5	-0.00	-0.05	0.00	0.00	0.00	0.00
	6	0.08	0.28	0.00	0.00	0.00	-0.01
	7	0.29	1.13	0.00	0.00	0.00	-0.04
	8	0.25	0.98	0.00	0.00	0.00	-0.04
343	1	0.14	0.42	0.00	0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.23	0.73	0.00	0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	0.00	-0.00	-0.00
	4	-0.05	-0.13	0.00	0.00	-0.00	0.01
	5	-0.00	-0.05	0.00	0.00	-0.00	0.00
	6	0.08	0.26	0.00	0.00	-0.00	-0.01
	7	0.29	1.04	0.00	0.00	-0.00	-0.04
	8	0.25	0.90	0.00	0.00	-0.00	-0.04
344	1	0.14	0.39	0.00	0.00	-0.00	-0.02
	2	0.23	0.67	0.00	0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	0.00	-0.00	-0.00
	4	-0.05	-0.12	0.00	0.00	-0.00	0.01
	5	-0.00	-0.05	0.00	0.00	-0.00	0.00
	6	0.08	0.24	0.00	0.00	-0.00	-0.01
	7	0.29	0.96	0.00	0.00	-0.00	-0.04
	8	0.25	0.83	0.00	0.00	-0.00	-0.04
345	1	0.14	0.38	0.00	0.00	-0.00	-0.02
	2	0.23	0.65	0.00	0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	0.00	-0.00	-0.00
	4	-0.05	-0.12	0.00	0.00	-0.00	0.01
	5	-0.00	-0.05	0.00	0.00	-0.00	0.00
	6	0.08	0.23	0.00	0.00	-0.00	-0.01
	7	0.29	0.94	0.00	0.00	-0.00	-0.04
	8	0.25	0.81	0.00	0.00	-0.00	-0.04
346	1	0.14	0.37	0.00	0.00	-0.00	-0.02
	2	0.23	0.64	0.00	0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.05	-0.11	0.00	0.00	-0.00	0.01
	5	-0.00	-0.05	0.00	0.00	-0.00	0.00
	6	0.08	0.23	0.00	0.00	-0.00	-0.01
	7	0.29	0.92	0.00	0.00	-0.00	-0.04
	8	0.25	0.79	0.00	0.00	-0.00	-0.04
347	1	0.14	0.37	0.00	0.00	0.00	-0.02
	2	0.23	0.63	0.00	0.00	0.00	-0.03
	3	-0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.05	-0.11	0.00	0.00	0.00	0.01
	5	-0.00	-0.05	0.00	0.00	0.00	0.00
	6	0.08	0.22	0.00	0.00	0.00	-0.01
	7	0.29	0.91	0.00	0.00	0.00	-0.04
	8	0.25	0.78	0.00	0.00	0.00	-0.04
348	1	0.14	0.36	0.00	0.00	0.00	-0.02
	2	0.23	0.62	0.00	0.00	0.00	-0.03
	3	-0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.05	-0.11	0.00	0.00	0.00	0.01
	5	-0.00	-0.04	0.00	0.00	0.00	0.00
	6	0.08	0.22	0.00	0.00	0.00	-0.01
	7	0.29	0.89	0.00	0.00	0.00	-0.04
	8	0.25	0.77	0.00	0.00	0.00	-0.04
349	1	0.14	0.35	0.00	-0.00	0.00	-0.02
	2	0.23	0.61	0.00	-0.00	0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.11	0.00	-0.00	0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.08	0.21	0.00	-0.00	0.00	-0.01
	7	0.29	0.87	0.00	-0.00	0.00	-0.04
	8	0.25	0.75	0.00	-0.00	0.00	-0.04
350	1	0.14	0.31	0.00	-0.00	-0.00	-0.02
	2	0.23	0.55	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	-0.10	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	-0.00	0.00
	6	0.08	0.19	0.00	-0.00	-0.00	-0.01
	7	0.29	0.78	0.00	-0.00	-0.00	-0.04
	8	0.25	0.67	0.00	-0.00	-0.00	-0.04
351	1	0.14	0.31	0.00	-0.00	0.00	-0.02
	2	0.23	0.53	0.00	-0.00	0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.09	0.00	-0.00	0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	0.00	0.00
	6	0.08	0.19	0.00	-0.00	0.00	-0.01
	7	0.29	0.76	0.00	-0.00	0.00	-0.04
	8	0.25	0.66	0.00	-0.00	0.00	-0.04
352	1	0.14	0.29	0.00	-0.00	0.00	-0.02
	2	0.23	0.50	0.00	-0.00	0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.09	0.00	-0.00	0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	0.00	0.00
	6	0.08	0.17	0.00	-0.00	0.00	-0.01
	7	0.29	0.72	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.25	0.62	0.00	-0.00	0.00	-0.04
353	1	0.14	0.27	0.00	-0.00	0.00	-0.02
	2	0.23	0.47	0.00	-0.00	0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.08	0.00	-0.00	0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	0.00	0.00
	6	0.08	0.16	0.00	-0.00	0.00	-0.01
	7	0.29	0.67	0.00	-0.00	0.00	-0.04
	8	0.25	0.58	0.00	-0.00	0.00	-0.04
354	1	0.14	0.26	0.00	-0.00	-0.00	-0.02
	2	0.23	0.45	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	-0.08	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	-0.00	0.00
	6	0.08	0.16	0.00	-0.00	-0.00	-0.01
	7	0.29	0.65	0.00	-0.00	-0.00	-0.04
	8	0.25	0.56	0.00	-0.00	-0.00	-0.04
355	1	0.14	-0.00	0.00	-0.00	0.00	-0.02
	2	0.23	-0.00	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.01	0.00	-0.00	0.00	0.01
	5	-0.00	-0.01	0.00	-0.00	0.00	0.00
	6	0.08	-0.01	0.00	-0.00	0.00	-0.01
	7	0.29	-0.00	0.00	-0.00	0.00	-0.04
	8	0.25	-0.00	0.00	-0.00	0.00	-0.04
356	1	0.14	-0.01	0.00	-0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.23	-0.01	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.00	0.00	-0.00	0.00	0.01
	5	-0.00	-0.01	0.00	-0.00	0.00	0.00
	6	0.08	-0.01	0.00	-0.00	0.00	-0.01
	7	0.29	-0.01	0.00	-0.00	0.00	-0.04
	8	0.25	-0.02	0.00	-0.00	0.00	-0.04
357	1	0.14	-0.01	0.00	-0.00	0.00	-0.02
	2	0.23	-0.02	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.00	0.00	-0.00	0.00	0.01
	5	-0.00	-0.01	0.00	-0.00	0.00	0.00
	6	0.08	-0.02	0.00	-0.00	0.00	-0.01
	7	0.29	-0.03	0.00	-0.00	0.00	-0.04
	8	0.25	-0.03	0.00	-0.00	0.00	-0.04
358	1	0.14	-0.05	0.00	-0.00	0.00	-0.02
	2	0.23	-0.08	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	0.00	-0.00
	4	-0.05	0.01	0.00	-0.00	0.00	0.01
	5	-0.00	-0.01	0.00	-0.00	0.00	0.00
	6	0.08	-0.04	0.00	-0.00	0.00	-0.01
	7	0.29	-0.12	0.00	-0.00	0.00	-0.04
	8	0.25	-0.10	0.00	-0.00	0.00	-0.04
359	1	0.14	-0.09	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.15	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.05	0.02	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.00	0.00	-0.00	-0.00	0.00
	6	0.08	-0.06	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.21	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.18	0.00	-0.00	-0.00	-0.04
360	1	0.14	-0.12	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.21	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.03	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.00	0.00	-0.00	-0.00	0.00
	6	0.08	-0.09	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.29	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.26	0.00	-0.00	-0.00	-0.04
361	1	0.14	-0.13	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.22	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.03	0.00	-0.00	-0.00	0.01
	5	-0.00	0.00	0.00	-0.00	-0.00	0.00
	6	0.08	-0.09	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.31	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.27	0.00	-0.00	-0.00	-0.04
362	1	0.14	-0.14	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.23	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.03	0.00	-0.00	-0.00	0.01
	5	-0.00	0.00	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.08	-0.10	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.33	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.29	0.00	-0.00	-0.00	-0.04
363	1	0.14	-0.14	0.00	-0.00	0.00	-0.02
	2	0.23	-0.24	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.03	0.00	-0.00	0.00	0.01
	5	-0.00	0.00	0.00	-0.00	0.00	0.00
	6	0.08	-0.10	0.00	-0.00	0.00	-0.01
	7	0.29	-0.34	0.00	-0.00	0.00	-0.04
	8	0.25	-0.30	0.00	-0.00	0.00	-0.04
364	1	0.14	-0.15	0.00	-0.00	0.00	-0.02
	2	0.23	-0.25	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.04	0.00	-0.00	0.00	0.01
	5	-0.00	0.00	0.00	-0.00	0.00	0.00
	6	0.08	-0.10	0.00	-0.00	0.00	-0.01
	7	0.29	-0.36	0.00	-0.00	0.00	-0.04
	8	0.25	-0.32	0.00	-0.00	0.00	-0.04
365	1	0.14	-0.16	0.00	-0.00	0.00	-0.02
	2	0.23	-0.27	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.04	0.00	-0.00	0.00	0.01
	5	-0.00	0.00	0.00	-0.00	0.00	0.00
	6	0.08	-0.11	0.00	-0.00	0.00	-0.01
	7	0.29	-0.38	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.25	-0.33	0.00	-0.00	0.00	-0.04
366	1	0.14	-0.19	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.33	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.05	0.00	-0.00	-0.00	0.01
	5	-0.00	0.01	0.00	-0.00	-0.00	0.00
	6	0.08	-0.13	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.47	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.41	0.00	-0.00	-0.00	-0.04
367	1	0.14	-0.20	0.00	-0.00	0.00	-0.02
	2	0.23	-0.34	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.05	0.00	-0.00	0.00	0.01
	5	-0.00	0.01	0.00	-0.00	0.00	0.00
	6	0.08	-0.14	0.00	-0.00	0.00	-0.01
	7	0.29	-0.49	0.00	-0.00	0.00	-0.04
	8	0.25	-0.43	0.00	-0.00	0.00	-0.04
368	1	0.14	-0.22	0.00	-0.00	0.00	-0.02
	2	0.23	-0.37	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.06	0.00	-0.00	0.00	0.01
	5	-0.00	0.01	0.00	-0.00	0.00	0.00
	6	0.08	-0.15	0.00	-0.00	0.00	-0.01
	7	0.29	-0.53	0.00	-0.00	0.00	-0.04
	8	0.25	-0.46	0.00	-0.00	0.00	-0.04
369	1	0.14	-0.24	0.00	-0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.23	-0.40	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.06	0.00	-0.00	0.00	0.01
	5	-0.00	0.01	0.00	-0.00	0.00	0.00
	6	0.08	-0.16	0.00	-0.00	0.00	-0.01
	7	0.29	-0.57	0.00	-0.00	0.00	-0.04
	8	0.25	-0.50	0.00	-0.00	0.00	-0.04
370	1	0.14	-0.24	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.42	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.06	0.00	-0.00	-0.00	0.01
	5	-0.00	0.01	0.00	-0.00	-0.00	0.00
	6	0.08	-0.16	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.60	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.52	0.00	-0.00	-0.00	-0.04
371	1	0.14	0.48	0.00	0.00	-0.00	-0.02
	2	0.23	0.83	0.00	0.00	-0.00	-0.03
	3	-0.00	0.02	0.00	0.00	-0.00	-0.00
	4	-0.05	-0.15	0.00	0.00	-0.00	0.01
	5	-0.00	-0.06	0.00	0.00	-0.00	0.00
	6	0.08	0.30	0.00	0.00	-0.00	-0.01
	7	0.29	1.19	0.00	0.00	-0.00	-0.04
	8	0.25	1.03	0.00	0.00	-0.00	-0.04
372	1	0.14	0.47	0.00	0.00	-0.00	-0.02
	2	0.23	0.81	0.00	0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.05	-0.14	0.00	0.00	-0.00	0.01
	5	-0.00	-0.06	0.00	0.00	-0.00	0.00
	6	0.08	0.29	0.00	0.00	-0.00	-0.01
	7	0.29	1.16	0.00	0.00	-0.00	-0.04
	8	0.25	1.00	0.00	0.00	-0.00	-0.04
373	1	0.14	0.44	0.00	0.00	-0.00	-0.02
	2	0.23	0.77	0.00	0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	0.00	-0.00	-0.00
	4	-0.05	-0.14	0.00	0.00	-0.00	0.01
	5	-0.00	-0.05	0.00	0.00	-0.00	0.00
	6	0.08	0.27	0.00	0.00	-0.00	-0.01
	7	0.29	1.10	0.00	0.00	-0.00	-0.04
	8	0.25	0.95	0.00	0.00	-0.00	-0.04
374	1	0.14	0.43	0.00	0.00	0.00	-0.02
	2	0.23	0.75	0.00	0.00	0.00	-0.03
	3	-0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.05	-0.13	0.00	0.00	0.00	0.01
	5	-0.00	-0.05	0.00	0.00	0.00	0.00
	6	0.08	0.27	0.00	0.00	0.00	-0.01
	7	0.29	1.07	0.00	0.00	0.00	-0.04
	8	0.25	0.93	0.00	0.00	0.00	-0.04
375	1	0.14	0.41	0.00	0.00	0.00	-0.02
	2	0.23	0.71	0.00	0.00	0.00	-0.03
	3	-0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.05	-0.12	0.00	0.00	0.00	0.01
	5	-0.00	-0.05	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.08	0.25	0.00	0.00	0.00	-0.01
	7	0.29	1.01	0.00	0.00	0.00	-0.04
	8	0.25	0.88	0.00	0.00	0.00	-0.04
376	1	0.14	0.40	0.00	0.00	0.00	-0.02
	2	0.23	0.69	0.00	0.00	0.00	-0.03
	3	-0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.05	-0.12	0.00	0.00	0.00	0.01
	5	-0.00	-0.05	0.00	0.00	0.00	0.00
	6	0.08	0.24	0.00	0.00	0.00	-0.01
	7	0.29	0.98	0.00	0.00	0.00	-0.04
	8	0.25	0.85	0.00	0.00	0.00	-0.04
377	1	0.14	0.34	0.00	-0.00	-0.00	-0.02
	2	0.23	0.59	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	-0.10	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	-0.00	0.00
	6	0.08	0.21	0.00	-0.00	-0.00	-0.01
	7	0.29	0.84	0.00	-0.00	-0.00	-0.04
	8	0.25	0.72	0.00	-0.00	-0.00	-0.04
378	1	0.14	0.33	0.00	-0.00	0.00	-0.02
	2	0.23	0.57	0.00	-0.00	0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.10	0.00	-0.00	0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	0.00	0.00
	6	0.08	0.20	0.00	-0.00	0.00	-0.01
	7	0.29	0.81	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.25	0.70	0.00	-0.00	0.00	-0.04
379	1	0.14	0.30	0.00	-0.00	-0.00	-0.02
	2	0.23	0.51	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	-0.09	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	-0.00	0.00
	6	0.08	0.18	0.00	-0.00	-0.00	-0.01
	7	0.29	0.74	0.00	-0.00	-0.00	-0.04
	8	0.25	0.64	0.00	-0.00	-0.00	-0.04
380	1	0.14	0.28	0.00	-0.00	-0.00	-0.02
	2	0.23	0.48	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	-0.09	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	-0.00	0.00
	6	0.08	0.17	0.00	-0.00	-0.00	-0.01
	7	0.29	0.69	0.00	-0.00	-0.00	-0.04
	8	0.25	0.60	0.00	-0.00	-0.00	-0.04
381	1	0.14	-0.03	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.04	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.00	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.01	0.00	-0.00	-0.00	0.00
	6	0.08	-0.03	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.06	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.05	0.00	-0.00	-0.00	-0.04
382	1	0.14	-0.04	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.23	-0.06	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.00	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.01	0.00	-0.00	-0.00	0.00
	6	0.08	-0.03	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.09	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.08	0.00	-0.00	-0.00	-0.04
383	1	0.14	-0.06	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.10	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.01	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.01	0.00	-0.00	-0.00	0.00
	6	0.08	-0.05	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.15	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.13	0.00	-0.00	-0.00	-0.04
384	1	0.14	-0.07	0.00	-0.00	0.00	-0.02
	2	0.23	-0.12	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.02	0.00	-0.00	0.00	0.01
	5	-0.00	-0.00	0.00	-0.00	0.00	0.00
	6	0.08	-0.06	0.00	-0.00	0.00	-0.01
	7	0.29	-0.18	0.00	-0.00	0.00	-0.04
	8	0.25	-0.16	0.00	-0.00	0.00	-0.04
385	1	0.14	-0.10	0.00	-0.00	0.00	-0.02
	2	0.23	-0.17	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.05	0.02	0.00	-0.00	0.00	0.01
	5	-0.00	-0.00	0.00	-0.00	0.00	0.00
	6	0.08	-0.07	0.00	-0.00	0.00	-0.01
	7	0.29	-0.23	0.00	-0.00	0.00	-0.04
	8	0.25	-0.21	0.00	-0.00	0.00	-0.04
386	1	0.14	-0.11	0.00	-0.00	0.00	-0.02
	2	0.23	-0.19	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.03	0.00	-0.00	0.00	0.01
	5	-0.00	-0.00	0.00	-0.00	0.00	0.00
	6	0.08	-0.08	0.00	-0.00	0.00	-0.01
	7	0.29	-0.26	0.00	-0.00	0.00	-0.04
	8	0.25	-0.23	0.00	-0.00	0.00	-0.04
387	1	0.14	-0.17	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.29	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.04	0.00	-0.00	-0.00	0.01
	5	-0.00	0.00	0.00	-0.00	-0.00	0.00
	6	0.08	-0.12	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.41	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.36	0.00	-0.00	-0.00	-0.04
388	1	0.14	-0.18	0.00	-0.00	0.00	-0.02
	2	0.23	-0.31	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.05	0.05	0.00	-0.00	0.00	0.01
	5	-0.00	0.01	0.00	-0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.08	-0.12	0.00	-0.00	0.00	-0.01
	7	0.29	-0.44	0.00	-0.00	0.00	-0.04
	8	0.25	-0.38	0.00	-0.00	0.00	-0.04
389	1	0.14	-0.21	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.36	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.05	0.00	-0.00	-0.00	0.01
	5	-0.00	0.01	0.00	-0.00	-0.00	0.00
	6	0.08	-0.14	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.51	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.45	0.00	-0.00	-0.00	-0.04
390	1	0.14	-0.23	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.39	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.06	0.00	-0.00	-0.00	0.01
	5	-0.00	0.01	0.00	-0.00	-0.00	0.00
	6	0.08	-0.15	0.00	-0.00	-0.00	-0.01
	7	0.29	-0.55	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.48	0.00	-0.00	-0.00	-0.04
391	1	0.14	0.26	0.00	-0.00	-0.00	-0.02
	2	0.23	0.45	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	-0.08	0.00	-0.00	-0.00	0.01
	5	-0.00	-0.04	0.00	-0.00	-0.00	0.00
	6	0.09	0.16	0.00	-0.00	-0.00	-0.01
	7	0.30	0.65	0.00	-0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.25	0.56	0.00	-0.00	-0.00	-0.04
392	1	0.14	-0.24	0.00	-0.00	-0.00	-0.02
	2	0.23	-0.42	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.06	0.00	-0.00	-0.00	0.01
	5	-0.00	0.01	0.00	-0.00	-0.00	0.00
	6	0.09	-0.16	0.00	-0.00	-0.00	-0.01
	7	0.30	-0.60	0.00	-0.00	-0.00	-0.04
	8	0.25	-0.52	0.00	-0.00	-0.00	-0.04
393	1	0.15	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.24	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.14	0.00	-0.00	-0.00	0.01
	5	-0.01	0.04	0.00	-0.00	-0.00	0.00
	6	0.09	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.30	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.26	-1.08	0.00	-0.00	-0.00	-0.04
394	1	0.15	0.00	0.00	-0.00	0.00	-0.02
	2	0.24	0.00	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	0.00	-0.00
	4	-0.05	-0.01	0.00	-0.00	0.00	0.01
	5	-0.01	-0.01	0.00	-0.00	0.00	0.00
	6	0.09	-0.01	0.00	-0.00	0.00	-0.01
	7	0.31	0.01	0.00	-0.00	0.00	-0.04
	8	0.26	0.00	0.00	-0.00	0.00	-0.04
395	1	0.15	0.26	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.24	0.45	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	-0.08	0.00	-0.00	-0.00	0.01
	5	-0.01	-0.04	0.00	-0.00	-0.00	0.00
	6	0.09	0.16	0.00	-0.00	-0.00	-0.01
	7	0.31	0.65	0.00	-0.00	-0.00	-0.04
	8	0.27	0.56	0.00	-0.00	-0.00	-0.04
396	1	0.15	-0.24	0.00	-0.00	-0.00	-0.02
	2	0.24	-0.42	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.06	0.00	-0.00	-0.00	0.01
	5	-0.01	0.01	0.00	-0.00	-0.00	0.00
	6	0.09	-0.16	0.00	-0.00	-0.00	-0.01
	7	0.31	-0.60	0.00	-0.00	-0.00	-0.04
	8	0.27	-0.52	0.00	-0.00	-0.00	-0.04
397	1	0.15	0.26	0.00	-0.00	-0.00	-0.02
	2	0.25	0.45	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	-0.08	0.00	-0.00	-0.00	0.01
	5	-0.01	-0.04	0.00	-0.00	-0.00	0.00
	6	0.09	0.16	0.00	-0.00	-0.00	-0.01
	7	0.33	0.65	0.00	-0.00	-0.00	-0.04
	8	0.28	0.56	0.00	-0.00	-0.00	-0.04
398	1	0.15	0.00	0.00	-0.00	0.00	-0.02
	2	0.25	0.00	0.00	-0.00	0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.05	-0.01	0.00	-0.00	0.00	0.01
	5	-0.01	-0.01	0.00	-0.00	0.00	0.00
	6	0.09	-0.01	0.00	-0.00	0.00	-0.01
	7	0.33	0.01	0.00	-0.00	0.00	-0.04
	8	0.28	0.00	0.00	-0.00	0.00	-0.04
399	1	0.15	-0.24	0.00	-0.00	-0.00	-0.02
	2	0.25	-0.42	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.06	0.00	-0.00	-0.00	0.01
	5	-0.01	0.01	0.00	-0.00	-0.00	0.00
	6	0.09	-0.16	0.00	-0.00	-0.00	-0.01
	7	0.33	-0.60	0.00	-0.00	-0.00	-0.04
	8	0.28	-0.52	0.00	-0.00	-0.00	-0.04
400	1	0.15	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.25	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.05	0.14	0.00	-0.00	-0.00	0.01
	5	-0.01	0.04	0.00	-0.00	-0.00	0.00
	6	0.09	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.33	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.28	-1.08	0.00	-0.00	-0.00	-0.04
401	1	0.17	0.26	0.00	0.00	-0.00	-0.02
	2	0.27	0.45	0.00	0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	0.00	-0.00	-0.00
	4	-0.05	-0.08	0.00	0.00	-0.00	0.01
	5	-0.01	-0.04	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.10	0.16	0.00	0.00	-0.00	-0.01
	7	0.36	0.65	0.00	0.00	-0.00	-0.04
	8	0.30	0.56	0.00	0.00	-0.00	-0.04
402	1	0.17	0.00	0.00	0.00	-0.00	-0.02
	2	0.27	0.00	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.05	-0.01	0.00	0.00	-0.00	0.01
	5	-0.01	-0.01	0.00	0.00	-0.00	0.00
	6	0.10	-0.01	0.00	0.00	-0.00	-0.01
	7	0.36	0.01	0.00	0.00	-0.00	-0.04
	8	0.30	0.00	0.00	0.00	-0.00	-0.04
403	1	0.17	-0.24	0.00	0.00	-0.00	-0.02
	2	0.27	-0.42	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	0.00	-0.00	-0.00
	4	-0.05	0.06	0.00	0.00	-0.00	0.01
	5	-0.01	0.01	0.00	0.00	-0.00	0.00
	6	0.10	-0.16	0.00	0.00	-0.00	-0.01
	7	0.36	-0.60	0.00	0.00	-0.00	-0.04
	8	0.30	-0.52	0.00	0.00	-0.00	-0.04
404	1	0.17	-0.50	0.00	0.00	-0.00	-0.02
	2	0.27	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.05	0.14	0.00	0.00	-0.00	0.01
	5	-0.01	0.04	0.00	0.00	-0.00	0.00
	6	0.10	-0.33	0.00	0.00	-0.00	-0.01
	7	0.36	-1.24	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.30	-1.08	0.00	0.00	-0.00	-0.04
405	1	0.18	0.26	0.00	0.00	-0.00	-0.02
	2	0.29	0.45	0.00	0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	0.00	-0.00	-0.00
	4	-0.06	-0.08	0.00	0.00	-0.00	0.01
	5	-0.01	-0.04	0.00	0.00	-0.00	0.00
	6	0.11	0.16	0.00	0.00	-0.00	-0.01
	7	0.38	0.65	0.00	0.00	-0.00	-0.04
	8	0.33	0.56	0.00	0.00	-0.00	-0.04
406	1	0.18	0.00	0.00	0.00	-0.00	-0.02
	2	0.29	0.00	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.06	-0.01	0.00	0.00	-0.00	0.01
	5	-0.01	-0.01	0.00	0.00	-0.00	0.00
	6	0.11	-0.01	0.00	0.00	-0.00	-0.01
	7	0.38	0.01	0.00	0.00	-0.00	-0.04
	8	0.33	0.00	0.00	0.00	-0.00	-0.04
407	1	0.18	-0.24	0.00	0.00	-0.00	-0.02
	2	0.29	-0.42	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	0.00	-0.00	-0.00
	4	-0.06	0.06	0.00	0.00	-0.00	0.01
	5	-0.01	0.01	0.00	0.00	-0.00	0.00
	6	0.11	-0.16	0.00	0.00	-0.00	-0.01
	7	0.38	-0.60	0.00	0.00	-0.00	-0.04
	8	0.33	-0.52	0.00	0.00	-0.00	-0.04
408	1	0.18	-0.50	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.29	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.06	0.14	0.00	-0.00	-0.00	0.01
	5	-0.01	0.04	0.00	-0.00	-0.00	0.00
	6	0.11	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.38	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.33	-1.08	0.00	-0.00	-0.00	-0.04
409	1	0.19	0.26	0.00	-0.00	-0.00	-0.02
	2	0.31	0.45	0.00	-0.00	-0.00	-0.03
	3	-0.00	0.01	0.00	-0.00	-0.00	-0.00
	4	-0.06	-0.08	0.00	-0.00	-0.00	0.01
	5	-0.01	-0.04	0.00	-0.00	-0.00	0.00
	6	0.11	0.16	0.00	-0.00	-0.00	-0.01
	7	0.41	0.65	0.00	-0.00	-0.00	-0.04
	8	0.35	0.56	0.00	-0.00	-0.00	-0.04
410	1	0.19	0.00	0.00	-0.00	-0.00	-0.02
	2	0.31	0.00	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.06	-0.01	0.00	-0.00	-0.00	0.01
	5	-0.01	-0.01	0.00	-0.00	-0.00	0.00
	6	0.11	-0.01	0.00	-0.00	-0.00	-0.01
	7	0.41	0.01	0.00	-0.00	-0.00	-0.04
	8	0.35	0.00	0.00	-0.00	-0.00	-0.04
411	1	0.19	-0.24	0.00	-0.00	-0.00	-0.02
	2	0.31	-0.42	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.01	0.00	-0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.06	0.06	0.00	-0.00	-0.00	0.01
	5	-0.01	0.01	0.00	-0.00	-0.00	0.00
	6	0.11	-0.16	0.00	-0.00	-0.00	-0.01
	7	0.41	-0.60	0.00	-0.00	-0.00	-0.04
	8	0.35	-0.52	0.00	-0.00	-0.00	-0.04
412	1	0.19	-0.50	0.00	0.00	-0.00	-0.02
	2	0.31	-0.87	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.06	0.14	0.00	0.00	-0.00	0.01
	5	-0.01	0.04	0.00	0.00	-0.00	0.00
	6	0.11	-0.33	0.00	0.00	-0.00	-0.01
	7	0.41	-1.24	0.00	0.00	-0.00	-0.04
	8	0.35	-1.08	0.00	0.00	-0.00	-0.04
413	1	0.20	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.33	-0.87	0.00	-0.00	-0.00	-0.03
	3	-0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.06	0.14	0.00	-0.00	-0.00	0.01
	5	-0.01	0.04	0.00	-0.00	-0.00	0.00
	6	0.12	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.44	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.37	-1.08	0.00	-0.00	-0.00	-0.04
414	1	0.20	0.26	0.00	0.00	0.00	-0.02
	2	0.33	0.45	0.00	0.00	0.00	-0.03
	3	-0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.06	-0.08	0.00	0.00	0.00	0.01
	5	-0.01	-0.04	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.12	0.16	0.00	0.00	0.00	-0.01
	7	0.44	0.65	0.00	0.00	0.00	-0.04
	8	0.38	0.56	0.00	0.00	0.00	-0.04
415	1	0.20	0.00	0.00	0.00	-0.00	-0.02
	2	0.33	0.00	0.00	0.00	-0.00	-0.03
	3	-0.00	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.06	-0.01	0.00	0.00	-0.00	0.01
	5	-0.01	-0.01	0.00	0.00	-0.00	0.00
	6	0.12	-0.01	0.00	0.00	-0.00	-0.01
	7	0.44	0.01	0.00	0.00	-0.00	-0.04
	8	0.38	0.00	0.00	0.00	-0.00	-0.04
416	1	0.20	-0.24	0.00	0.00	-0.00	-0.02
	2	0.34	-0.42	0.00	0.00	-0.00	-0.03
	3	0.00	-0.01	0.00	0.00	-0.00	-0.00
	4	-0.06	0.06	0.00	0.00	-0.00	0.01
	5	-0.01	0.01	0.00	0.00	-0.00	0.00
	6	0.12	-0.16	0.00	0.00	-0.00	-0.01
	7	0.45	-0.60	0.00	0.00	-0.00	-0.04
	8	0.38	-0.52	0.00	0.00	-0.00	-0.04
417	1	0.21	-0.50	0.00	0.00	-0.00	-0.02
	2	0.34	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.07	0.14	0.00	0.00	-0.00	0.01
	5	-0.01	0.04	0.00	0.00	-0.00	0.00
	6	0.13	-0.33	0.00	0.00	-0.00	-0.01
	7	0.46	-1.24	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.39	-1.08	0.00	0.00	-0.00	-0.04
418	1	0.21	0.26	0.00	-0.00	0.00	-0.02
	2	0.36	0.45	0.00	-0.00	0.00	-0.03
	3	0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.07	-0.08	0.00	-0.00	0.00	0.01
	5	-0.01	-0.04	0.00	-0.00	0.00	0.00
	6	0.13	0.16	0.00	-0.00	0.00	-0.01
	7	0.47	0.65	0.00	-0.00	0.00	-0.04
	8	0.41	0.56	0.00	-0.00	0.00	-0.04
419	1	0.21	0.00	0.00	-0.00	-0.00	-0.02
	2	0.36	0.00	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.07	-0.01	0.00	-0.00	-0.00	0.01
	5	-0.01	-0.01	0.00	-0.00	-0.00	0.00
	6	0.13	-0.01	0.00	-0.00	-0.00	-0.01
	7	0.47	0.01	0.00	-0.00	-0.00	-0.04
	8	0.41	0.00	0.00	-0.00	-0.00	-0.04
420	1	0.22	-0.24	0.00	-0.00	-0.00	-0.02
	2	0.36	-0.42	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.07	0.06	0.00	-0.00	-0.00	0.01
	5	-0.01	0.01	0.00	-0.00	-0.00	0.00
	6	0.13	-0.16	0.00	-0.00	-0.00	-0.01
	7	0.48	-0.60	0.00	-0.00	-0.00	-0.04
	8	0.41	-0.52	0.00	-0.00	-0.00	-0.04
421	1	0.22	-0.50	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.36	-0.87	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.07	0.14	0.00	-0.00	-0.00	0.01
	5	-0.01	0.04	0.00	-0.00	-0.00	0.00
	6	0.13	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.48	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.41	-1.08	0.00	-0.00	-0.00	-0.04
422	1	0.23	0.26	0.00	0.00	0.00	-0.02
	2	0.38	0.45	0.00	0.00	0.00	-0.03
	3	0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.07	-0.08	0.00	0.00	0.00	0.01
	5	-0.01	-0.04	0.00	0.00	0.00	0.00
	6	0.14	0.16	0.00	0.00	0.00	-0.01
	7	0.50	0.65	0.00	0.00	0.00	-0.04
	8	0.43	0.56	0.00	0.00	0.00	-0.04
423	1	0.23	0.00	0.00	0.00	-0.00	-0.02
	2	0.38	0.00	0.00	0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.07	-0.01	0.00	0.00	-0.00	0.01
	5	-0.01	-0.01	0.00	0.00	-0.00	0.00
	6	0.14	-0.01	0.00	0.00	-0.00	-0.01
	7	0.50	0.01	0.00	0.00	-0.00	-0.04
	8	0.43	0.00	0.00	0.00	-0.00	-0.04
424	1	0.23	-0.50	0.00	0.00	-0.00	-0.02
	2	0.38	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.07	0.14	0.00	0.00	-0.00	0.01
	5	-0.01	0.04	0.00	0.00	-0.00	0.00
	6	0.14	-0.33	0.00	0.00	-0.00	-0.01
	7	0.50	-1.24	0.00	0.00	-0.00	-0.04
	8	0.43	-1.08	0.00	0.00	-0.00	-0.04
425	1	0.23	-0.24	0.00	0.00	-0.00	-0.02
	2	0.38	-0.42	0.00	0.00	-0.00	-0.03
	3	0.00	-0.01	0.00	0.00	-0.00	-0.00
	4	-0.07	0.06	0.00	0.00	-0.00	0.01
	5	-0.01	0.01	0.00	0.00	-0.00	0.00
	6	0.14	-0.16	0.00	0.00	-0.00	-0.01
	7	0.51	-0.60	0.00	0.00	-0.00	-0.04
	8	0.44	-0.52	0.00	0.00	-0.00	-0.04
426	1	0.23	-0.50	0.00	0.00	-0.00	-0.02
	2	0.39	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.07	0.14	0.00	0.00	-0.00	0.01
	5	-0.01	0.04	0.00	0.00	-0.00	0.00
	6	0.14	-0.33	0.00	0.00	-0.00	-0.01
	7	0.53	-1.24	0.00	0.00	-0.00	-0.04
	8	0.45	-1.08	0.00	0.00	-0.00	-0.04
427	1	0.24	0.26	0.00	-0.00	0.00	-0.02
	2	0.40	0.45	0.00	-0.00	0.00	-0.03
	3	0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.07	-0.08	0.00	-0.00	0.00	0.01
	5	-0.01	-0.04	0.00	-0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.15	0.16	0.00	-0.00	0.00	-0.01
	7	0.53	0.65	0.00	-0.00	0.00	-0.04
	8	0.46	0.56	0.00	-0.00	0.00	-0.04
428	1	0.24	0.00	0.00	-0.00	-0.00	-0.02
	2	0.40	0.00	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.07	-0.01	0.00	-0.00	-0.00	0.01
	5	-0.01	-0.01	0.00	-0.00	-0.00	0.00
	6	0.15	-0.01	0.00	-0.00	-0.00	-0.01
	7	0.53	0.01	0.00	-0.00	-0.00	-0.04
	8	0.46	0.00	0.00	-0.00	-0.00	-0.04
429	1	0.24	-0.24	0.00	-0.00	-0.00	-0.02
	2	0.41	-0.42	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.08	0.06	0.00	-0.00	-0.00	0.01
	5	-0.01	0.01	0.00	-0.00	-0.00	0.00
	6	0.15	-0.16	0.00	-0.00	-0.00	-0.01
	7	0.55	-0.60	0.00	-0.00	-0.00	-0.04
	8	0.47	-0.52	0.00	-0.00	-0.00	-0.04
430	1	0.24	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.41	-0.87	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.08	0.14	0.00	-0.00	-0.00	0.01
	5	-0.01	0.04	0.00	-0.00	-0.00	0.00
	6	0.15	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.55	-1.24	0.00	-0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.47	-1.08	0.00	-0.00	-0.00	-0.04
431	1	0.25	0.26	0.00	-0.00	0.00	-0.02
	2	0.42	0.45	0.00	-0.00	0.00	-0.03
	3	0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.08	-0.08	0.00	-0.00	0.00	0.01
	5	-0.01	-0.04	0.00	-0.00	0.00	0.00
	6	0.15	0.16	0.00	-0.00	0.00	-0.01
	7	0.56	0.65	0.00	-0.00	0.00	-0.04
	8	0.48	0.56	0.00	-0.00	0.00	-0.04
432	1	0.25	0.00	0.00	0.00	-0.00	-0.02
	2	0.42	0.00	0.00	0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.08	-0.01	0.00	0.00	-0.00	0.01
	5	-0.01	-0.01	0.00	0.00	-0.00	0.00
	6	0.15	-0.01	0.00	0.00	-0.00	-0.01
	7	0.56	0.01	0.00	0.00	-0.00	-0.04
	8	0.48	0.00	0.00	0.00	-0.00	-0.04
433	1	0.25	-0.50	0.00	0.00	-0.00	-0.02
	2	0.42	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.08	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.16	-0.33	0.00	0.00	-0.00	-0.01
	7	0.57	-1.24	0.00	0.00	-0.00	-0.04
	8	0.49	-1.08	0.00	0.00	-0.00	-0.04
434	1	0.26	-0.24	0.00	-0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.43	-0.42	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.01	0.00	-0.00	-0.00	-0.00
	4	-0.08	0.06	0.00	-0.00	-0.00	0.01
	5	-0.02	0.01	0.00	-0.00	-0.00	0.00
	6	0.16	-0.16	0.00	-0.00	-0.00	-0.01
	7	0.58	-0.60	0.00	-0.00	-0.00	-0.04
	8	0.50	-0.52	0.00	-0.00	-0.00	-0.04
435	1	0.26	0.26	0.00	0.00	0.00	-0.02
	2	0.44	0.45	0.00	0.00	0.00	-0.03
	3	0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.08	-0.08	0.00	0.00	0.00	0.01
	5	-0.02	-0.04	0.00	0.00	0.00	0.00
	6	0.16	0.16	0.00	0.00	0.00	-0.01
	7	0.59	0.65	0.00	0.00	0.00	-0.04
	8	0.51	0.56	0.00	0.00	0.00	-0.04
436	1	0.26	0.00	0.00	-0.00	-0.00	-0.02
	2	0.44	0.00	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.08	-0.01	0.00	-0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	-0.00	-0.00	0.00
	6	0.16	-0.01	0.00	-0.00	-0.00	-0.01
	7	0.59	0.01	0.00	-0.00	-0.00	-0.04
	8	0.51	0.00	0.00	-0.00	-0.00	-0.04
437	1	0.26	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.44	-0.87	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	-0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.08	0.14	0.00	-0.00	-0.00	0.01
	5	-0.02	0.04	0.00	-0.00	-0.00	0.00
	6	0.16	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.59	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.51	-1.08	0.00	-0.00	-0.00	-0.04
438	1	0.27	-0.24	0.00	0.00	0.00	-0.02
	2	0.45	-0.42	0.00	0.00	0.00	-0.03
	3	0.00	-0.01	0.00	0.00	0.00	-0.00
	4	-0.08	0.06	0.00	0.00	0.00	0.01
	5	-0.02	0.01	0.00	0.00	0.00	0.00
	6	0.17	-0.16	0.00	0.00	0.00	-0.01
	7	0.61	-0.60	0.00	0.00	0.00	-0.04
	8	0.53	-0.52	0.00	0.00	0.00	-0.04
439	1	0.27	0.26	0.00	-0.00	0.00	-0.02
	2	0.46	0.45	0.00	-0.00	0.00	-0.03
	3	0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.08	-0.08	0.00	-0.00	0.00	0.01
	5	-0.02	-0.04	0.00	-0.00	0.00	0.00
	6	0.17	0.16	0.00	-0.00	0.00	-0.01
	7	0.62	0.65	0.00	-0.00	0.00	-0.04
	8	0.53	0.56	0.00	-0.00	0.00	-0.04
440	1	0.27	0.00	0.00	0.00	-0.00	-0.02
	2	0.46	0.00	0.00	0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.08	-0.01	0.00	0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.17	-0.01	0.00	0.00	-0.00	-0.01
	7	0.62	0.01	0.00	0.00	-0.00	-0.04
	8	0.53	0.00	0.00	0.00	-0.00	-0.04
441	1	0.27	-0.50	0.00	0.00	-0.00	-0.02
	2	0.46	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.08	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.17	-0.33	0.00	0.00	-0.00	-0.01
	7	0.62	-1.24	0.00	0.00	-0.00	-0.04
	8	0.53	-1.08	0.00	0.00	-0.00	-0.04
442	1	0.28	0.26	0.00	0.00	0.00	-0.02
	2	0.48	0.45	0.00	0.00	0.00	-0.03
	3	0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.09	-0.08	0.00	0.00	0.00	0.01
	5	-0.02	-0.04	0.00	0.00	0.00	0.00
	6	0.17	0.16	0.00	0.00	0.00	-0.01
	7	0.64	0.65	0.00	0.00	0.00	-0.04
	8	0.55	0.56	0.00	0.00	0.00	-0.04
443	1	0.28	-0.24	0.00	-0.00	0.00	-0.02
	2	0.48	-0.42	0.00	-0.00	0.00	-0.03
	3	0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.09	0.06	0.00	-0.00	0.00	0.01
	5	-0.02	0.01	0.00	-0.00	0.00	0.00
	6	0.17	-0.16	0.00	-0.00	0.00	-0.01
	7	0.64	-0.60	0.00	-0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.55	-0.52	0.00	-0.00	0.00	-0.04
444	1	0.28	0.00	0.00	-0.00	-0.00	-0.02
	2	0.48	0.00	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.09	-0.01	0.00	-0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	-0.00	-0.00	0.00
	6	0.18	-0.01	0.00	-0.00	-0.00	-0.01
	7	0.65	0.01	0.00	-0.00	-0.00	-0.04
	8	0.56	0.00	0.00	-0.00	-0.00	-0.04
445	1	0.29	-0.50	0.00	-0.00	-0.00	-0.02
	2	0.48	-0.87	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	-0.00	-0.00	-0.00
	4	-0.09	0.14	0.00	-0.00	-0.00	0.01
	5	-0.02	0.04	0.00	-0.00	-0.00	0.00
	6	0.18	-0.33	0.00	-0.00	-0.00	-0.01
	7	0.65	-1.24	0.00	-0.00	-0.00	-0.04
	8	0.56	-1.08	0.00	-0.00	-0.00	-0.04
446	1	0.29	0.26	0.00	-0.00	0.00	-0.02
	2	0.49	0.45	0.00	-0.00	0.00	-0.03
	3	0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.09	-0.08	0.00	-0.00	0.00	0.01
	5	-0.02	-0.04	0.00	-0.00	0.00	0.00
	6	0.18	0.16	0.00	-0.00	0.00	-0.01
	7	0.67	0.65	0.00	-0.00	0.00	-0.04
	8	0.58	0.56	0.00	-0.00	0.00	-0.04
447	1	0.30	-0.24	0.00	0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.50	-0.42	0.00	0.00	0.00	-0.03
	3	0.00	-0.01	0.00	0.00	0.00	-0.00
	4	-0.09	0.06	0.00	0.00	0.00	0.01
	5	-0.02	0.01	0.00	0.00	0.00	0.00
	6	0.18	-0.16	0.00	0.00	0.00	-0.01
	7	0.68	-0.60	0.00	0.00	0.00	-0.04
	8	0.58	-0.52	0.00	0.00	0.00	-0.04
448	1	0.30	0.00	0.00	0.00	-0.00	-0.02
	2	0.50	0.00	0.00	0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.09	-0.01	0.00	0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	0.00	-0.00	0.00
	6	0.18	-0.01	0.00	0.00	-0.00	-0.01
	7	0.68	0.01	0.00	0.00	-0.00	-0.04
	8	0.58	0.00	0.00	0.00	-0.00	-0.04
449	1	0.30	-0.50	0.00	0.00	-0.00	-0.02
	2	0.50	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.09	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.18	-0.33	0.00	0.00	-0.00	-0.01
	7	0.68	-1.24	0.00	0.00	-0.00	-0.04
	8	0.58	-1.08	0.00	0.00	-0.00	-0.04
450	1	0.30	-0.50	0.00	0.00	-0.00	-0.02
	2	0.51	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.09	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.19	-0.33	0.00	0.00	-0.00	-0.01
	7	0.70	-1.24	0.00	0.00	-0.00	-0.04
	8	0.60	-1.08	0.00	0.00	-0.00	-0.04
451	1	0.30	0.26	0.00	0.00	0.00	-0.02
	2	0.51	0.45	0.00	0.00	0.00	-0.03
	3	0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.09	-0.08	0.00	0.00	0.00	0.01
	5	-0.02	-0.04	0.00	0.00	0.00	0.00
	6	0.19	0.16	0.00	0.00	0.00	-0.01
	7	0.70	0.65	0.00	0.00	0.00	-0.04
	8	0.60	0.56	0.00	0.00	0.00	-0.04
452	1	0.31	0.00	0.00	-0.00	-0.00	-0.02
	2	0.52	0.00	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.09	-0.01	0.00	-0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	-0.00	-0.00	0.00
	6	0.19	-0.01	0.00	-0.00	-0.00	-0.01
	7	0.71	0.01	0.00	-0.00	-0.00	-0.04
	8	0.61	0.00	0.00	-0.00	-0.00	-0.04
453	1	0.31	-0.24	0.00	-0.00	0.00	-0.02
	2	0.52	-0.42	0.00	-0.00	0.00	-0.03
	3	0.00	-0.01	0.00	-0.00	0.00	-0.00
	4	-0.10	0.06	0.00	-0.00	0.00	0.01
	5	-0.02	0.01	0.00	-0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.19	-0.16	0.00	-0.00	0.00	-0.01
	7	0.71	-0.60	0.00	-0.00	0.00	-0.04
	8	0.61	-0.52	0.00	-0.00	0.00	-0.04
454	1	0.31	-0.50	0.00	0.00	-0.00	-0.02
	2	0.52	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.10	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.19	-0.33	0.00	0.00	-0.00	-0.01
	7	0.71	-1.24	0.00	0.00	-0.00	-0.04
	8	0.61	-1.08	0.00	0.00	-0.00	-0.04
455	1	0.32	0.26	0.00	-0.00	0.00	-0.02
	2	0.53	0.45	0.00	-0.00	0.00	-0.03
	3	0.00	0.01	0.00	-0.00	0.00	-0.00
	4	-0.10	-0.08	0.00	-0.00	0.00	0.01
	5	-0.02	-0.04	0.00	-0.00	0.00	0.00
	6	0.20	0.16	0.00	-0.00	0.00	-0.01
	7	0.73	0.65	0.00	-0.00	0.00	-0.04
	8	0.63	0.56	0.00	-0.00	0.00	-0.04
456	1	0.32	-0.50	0.00	0.00	-0.00	-0.02
	2	0.53	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.10	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.20	-0.33	0.00	0.00	-0.00	-0.01
	7	0.73	-1.24	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.63	-1.08	0.00	0.00	-0.00	-0.04
457	1	0.32	0.00	0.00	-0.00	-0.00	-0.02
	2	0.54	0.00	0.00	-0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.10	-0.01	0.00	-0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	-0.00	-0.00	0.00
	6	0.20	-0.01	0.00	-0.00	-0.00	-0.01
	7	0.74	0.01	0.00	-0.00	-0.00	-0.04
	8	0.63	0.00	0.00	-0.00	-0.00	-0.04
458	1	0.32	-0.24	0.00	0.00	0.00	-0.02
	2	0.54	-0.42	0.00	0.00	0.00	-0.03
	3	0.00	-0.01	0.00	0.00	0.00	-0.00
	4	-0.10	0.06	0.00	0.00	0.00	0.01
	5	-0.02	0.01	0.00	0.00	0.00	0.00
	6	0.20	-0.16	0.00	0.00	0.00	-0.01
	7	0.74	-0.60	0.00	0.00	0.00	-0.04
	8	0.64	-0.52	0.00	0.00	0.00	-0.04
459	1	0.32	-0.50	0.00	0.00	-0.00	-0.02
	2	0.55	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.10	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.20	-0.33	0.00	0.00	-0.00	-0.01
	7	0.74	-1.24	0.00	0.00	-0.00	-0.04
	8	0.64	-1.08	0.00	0.00	-0.00	-0.04
460	1	0.33	0.26	0.00	0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.55	0.45	0.00	0.00	0.00	-0.03
	3	0.00	0.01	0.00	0.00	0.00	-0.00
	4	-0.10	-0.08	0.00	0.00	0.00	0.01
	5	-0.02	-0.04	0.00	0.00	0.00	0.00
	6	0.20	0.16	0.00	0.00	0.00	-0.01
	7	0.75	0.65	0.00	0.00	0.00	-0.04
	8	0.65	0.56	0.00	0.00	0.00	-0.04
461	1	0.33	-0.50	0.00	0.00	-0.00	-0.02
	2	0.56	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.10	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.20	-0.33	0.00	0.00	-0.00	-0.01
	7	0.76	-1.24	0.00	0.00	-0.00	-0.04
	8	0.66	-1.08	0.00	0.00	-0.00	-0.04
462	1	0.33	0.00	0.00	0.00	-0.00	-0.02
	2	0.56	0.00	0.00	0.00	-0.00	-0.03
	3	0.00	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.10	-0.01	0.00	0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	0.00	-0.00	0.00
	6	0.21	-0.01	0.00	0.00	-0.00	-0.01
	7	0.76	0.01	0.00	0.00	-0.00	-0.04
	8	0.66	0.00	0.00	0.00	-0.00	-0.04
463	1	0.34	-0.24	0.00	-0.00	0.00	-0.02
	2	0.57	-0.42	0.00	-0.00	0.00	-0.03
	3	0.00	-0.01	0.00	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.10	0.06	0.00	-0.00	0.00	0.01
	5	-0.02	0.01	0.00	-0.00	0.00	0.00
	6	0.21	-0.16	0.00	-0.00	0.00	-0.01
	7	0.78	-0.60	0.00	-0.00	0.00	-0.04
	8	0.67	-0.52	0.00	-0.00	0.00	-0.04
464	1	0.34	-0.50	0.00	0.00	-0.00	-0.02
	2	0.57	-0.87	0.00	0.00	-0.00	-0.03
	3	0.00	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.10	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.21	-0.33	0.00	0.00	-0.00	-0.01
	7	0.78	-1.24	0.00	0.00	-0.00	-0.04
	8	0.67	-1.08	0.00	0.00	-0.00	-0.04
465	1	0.34	0.26	0.00	-0.00	0.00	-0.02
	2	0.57	0.45	0.00	-0.00	0.00	-0.03
	3	0.01	0.01	0.00	-0.00	0.00	-0.00
	4	-0.10	-0.08	0.00	-0.00	0.00	0.01
	5	-0.02	-0.04	0.00	-0.00	0.00	0.00
	6	0.21	0.16	0.00	-0.00	0.00	-0.01
	7	0.78	0.65	0.00	-0.00	0.00	-0.04
	8	0.67	0.56	0.00	-0.00	0.00	-0.04
466	1	0.34	0.00	0.00	-0.00	-0.00	-0.02
	2	0.58	0.00	0.00	-0.00	-0.00	-0.03
	3	0.01	-0.00	0.00	-0.00	-0.00	-0.00
	4	-0.10	-0.01	0.00	-0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.21	-0.01	0.00	-0.00	-0.00	-0.01
	7	0.79	0.01	0.00	-0.00	-0.00	-0.04
	8	0.68	0.00	0.00	-0.00	-0.00	-0.04
467	1	0.34	-0.50	0.00	0.00	-0.00	-0.02
	2	0.58	-0.87	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.10	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.21	-0.33	0.00	0.00	-0.00	-0.01
	7	0.79	-1.24	0.00	0.00	-0.00	-0.04
	8	0.68	-1.08	0.00	0.00	-0.00	-0.04
468	1	0.35	0.26	0.00	0.00	0.00	-0.02
	2	0.59	0.45	0.00	0.00	0.00	-0.03
	3	0.01	0.01	0.00	0.00	0.00	-0.00
	4	-0.11	-0.08	0.00	0.00	0.00	0.01
	5	-0.02	-0.04	0.00	0.00	0.00	0.00
	6	0.22	0.16	0.00	0.00	0.00	-0.01
	7	0.81	0.65	0.00	0.00	0.00	-0.04
	8	0.70	0.56	0.00	0.00	0.00	-0.04
469	1	0.35	0.00	0.00	0.00	-0.00	-0.02
	2	0.59	0.00	0.00	0.00	-0.00	-0.03
	3	0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.01	0.00	0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	0.00	-0.00	0.00
	6	0.22	-0.01	0.00	0.00	-0.00	-0.01
	7	0.81	0.01	0.00	0.00	-0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.70	0.00	0.00	0.00	-0.00	-0.04
470	1	0.35	-0.24	0.00	0.00	0.00	-0.02
	2	0.59	-0.42	0.00	0.00	0.00	-0.03
	3	0.01	-0.01	0.00	0.00	0.00	-0.00
	4	-0.11	0.06	0.00	0.00	0.00	0.01
	5	-0.02	0.01	0.00	0.00	0.00	0.00
	6	0.22	-0.16	0.00	0.00	0.00	-0.01
	7	0.81	-0.60	0.00	0.00	0.00	-0.04
	8	0.70	-0.52	0.00	0.00	0.00	-0.04
471	1	0.35	-0.50	0.00	0.00	-0.00	-0.02
	2	0.59	-0.87	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.22	-0.33	0.00	0.00	-0.00	-0.01
	7	0.81	-1.24	0.00	0.00	-0.00	-0.04
	8	0.70	-1.08	0.00	0.00	-0.00	-0.04
472	1	0.35	0.26	0.00	0.00	0.00	-0.02
	2	0.60	0.45	0.00	0.00	0.00	-0.03
	3	0.01	0.01	0.00	0.00	0.00	-0.00
	4	-0.11	-0.08	0.00	0.00	0.00	0.01
	5	-0.02	-0.04	0.00	0.00	0.00	0.00
	6	0.22	0.16	0.00	0.00	0.00	-0.01
	7	0.82	0.65	0.00	0.00	0.00	-0.04
	8	0.70	0.56	0.00	0.00	0.00	-0.04
473	1	0.35	0.25	0.00	0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.60	0.43	0.00	0.00	-0.00	-0.03
	3	0.01	0.01	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.08	0.00	0.00	-0.00	0.01
	5	-0.02	-0.03	0.00	0.00	-0.00	0.00
	6	0.22	0.15	0.00	0.00	-0.00	-0.01
	7	0.82	0.62	0.00	0.00	-0.00	-0.04
	8	0.70	0.53	0.00	0.00	-0.00	-0.04
474	1	0.35	0.23	0.00	0.00	0.00	-0.02
	2	0.60	0.41	0.00	0.00	0.00	-0.03
	3	0.01	0.01	0.00	0.00	0.00	-0.00
	4	-0.11	-0.07	0.00	0.00	0.00	0.01
	5	-0.02	-0.03	0.00	0.00	0.00	0.00
	6	0.22	0.14	0.00	0.00	0.00	-0.01
	7	0.82	0.58	0.00	0.00	0.00	-0.04
	8	0.70	0.50	0.00	0.00	0.00	-0.04
475	1	0.35	0.22	0.00	0.00	-0.00	-0.02
	2	0.60	0.38	0.00	0.00	-0.00	-0.03
	3	0.01	0.01	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.07	0.00	0.00	-0.00	0.01
	5	-0.02	-0.03	0.00	0.00	-0.00	0.00
	6	0.22	0.13	0.00	0.00	-0.00	-0.01
	7	0.82	0.55	0.00	0.00	-0.00	-0.04
	8	0.70	0.47	0.00	0.00	-0.00	-0.04
476	1	0.35	0.21	0.00	0.00	0.00	-0.02
	2	0.60	0.36	0.00	0.00	0.00	-0.03
	3	0.01	0.00	0.00	0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.11	-0.07	0.00	0.00	0.00	0.01
	5	-0.02	-0.03	0.00	0.00	0.00	0.00
	6	0.22	0.12	0.00	0.00	0.00	-0.01
	7	0.82	0.51	0.00	0.00	0.00	-0.04
	8	0.70	0.44	0.00	0.00	0.00	-0.04
477	1	0.35	0.19	0.00	0.00	0.00	-0.02
	2	0.60	0.33	0.00	0.00	0.00	-0.03
	3	0.01	0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.06	0.00	0.00	0.00	0.01
	5	-0.02	-0.03	0.00	0.00	0.00	0.00
	6	0.22	0.11	0.00	0.00	0.00	-0.01
	7	0.82	0.48	0.00	0.00	0.00	-0.04
	8	0.70	0.41	0.00	0.00	0.00	-0.04
478	1	0.35	0.18	0.00	0.00	-0.00	-0.02
	2	0.60	0.31	0.00	0.00	-0.00	-0.03
	3	0.01	0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.06	0.00	0.00	-0.00	0.01
	5	-0.02	-0.03	0.00	0.00	-0.00	0.00
	6	0.22	0.10	0.00	0.00	-0.00	-0.01
	7	0.82	0.44	0.00	0.00	-0.00	-0.04
	8	0.70	0.38	0.00	0.00	-0.00	-0.04
479	1	0.35	0.16	0.00	0.00	0.00	-0.02
	2	0.60	0.28	0.00	0.00	0.00	-0.03
	3	0.01	0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.05	0.00	0.00	0.00	0.01
	5	-0.02	-0.03	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.22	0.09	0.00	0.00	0.00	-0.01
	7	0.82	0.41	0.00	0.00	0.00	-0.04
	8	0.70	0.35	0.00	0.00	0.00	-0.04
480	1	0.35	0.15	0.00	0.00	-0.00	-0.02
	2	0.60	0.26	0.00	0.00	-0.00	-0.03
	3	0.01	0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.05	0.00	0.00	-0.00	0.01
	5	-0.02	-0.03	0.00	0.00	-0.00	0.00
	6	0.22	0.09	0.00	0.00	-0.00	-0.01
	7	0.82	0.37	0.00	0.00	-0.00	-0.04
	8	0.70	0.32	0.00	0.00	-0.00	-0.04
481	1	0.35	0.15	0.00	0.00	-0.00	-0.02
	2	0.60	0.26	0.00	0.00	-0.00	-0.03
	3	0.01	0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.05	0.00	0.00	-0.00	0.01
	5	-0.02	-0.03	0.00	0.00	-0.00	0.00
	6	0.22	0.08	0.00	0.00	-0.00	-0.01
	7	0.82	0.37	0.00	0.00	-0.00	-0.04
	8	0.70	0.32	0.00	0.00	-0.00	-0.04
482	1	0.35	0.14	0.00	0.00	0.00	-0.02
	2	0.60	0.24	0.00	0.00	0.00	-0.03
	3	0.01	0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.05	0.00	0.00	0.00	0.01
	5	-0.02	-0.02	0.00	0.00	0.00	0.00
	6	0.22	0.08	0.00	0.00	0.00	-0.01
	7	0.82	0.35	0.00	0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.70	0.30	0.00	0.00	0.00	-0.04
483	1	0.35	0.13	0.00	0.00	0.00	-0.02
	2	0.60	0.23	0.00	0.00	0.00	-0.03
	3	0.01	0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.04	0.00	0.00	0.00	0.01
	5	-0.02	-0.02	0.00	0.00	0.00	0.00
	6	0.22	0.07	0.00	0.00	0.00	-0.01
	7	0.82	0.33	0.00	0.00	0.00	-0.04
	8	0.70	0.28	0.00	0.00	0.00	-0.04
484	1	0.35	0.12	0.00	0.00	-0.00	-0.02
	2	0.60	0.21	0.00	0.00	-0.00	-0.03
	3	0.01	0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.04	0.00	0.00	-0.00	0.01
	5	-0.02	-0.02	0.00	0.00	-0.00	0.00
	6	0.22	0.07	0.00	0.00	-0.00	-0.01
	7	0.82	0.30	0.00	0.00	-0.00	-0.04
	8	0.70	0.25	0.00	0.00	-0.00	-0.04
485	1	0.35	0.11	0.00	0.00	-0.00	-0.02
	2	0.60	0.19	0.00	0.00	-0.00	-0.03
	3	0.01	0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.04	0.00	0.00	-0.00	0.01
	5	-0.02	-0.02	0.00	0.00	-0.00	0.00
	6	0.22	0.06	0.00	0.00	-0.00	-0.01
	7	0.82	0.27	0.00	0.00	-0.00	-0.04
	8	0.70	0.23	0.00	0.00	-0.00	-0.04
486	1	0.35	0.09	0.00	0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.60	0.17	0.00	0.00	0.00	-0.03
	3	0.01	0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.03	0.00	0.00	0.00	0.01
	5	-0.02	-0.02	0.00	0.00	0.00	0.00
	6	0.22	0.05	0.00	0.00	0.00	-0.01
	7	0.82	0.24	0.00	0.00	0.00	-0.04
	8	0.70	0.20	0.00	0.00	0.00	-0.04
487	1	0.35	0.08	0.00	0.00	-0.00	-0.02
	2	0.60	0.15	0.00	0.00	-0.00	-0.03
	3	0.01	0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.03	0.00	0.00	-0.00	0.01
	5	-0.02	-0.02	0.00	0.00	-0.00	0.00
	6	0.22	0.04	0.00	0.00	-0.00	-0.01
	7	0.82	0.21	0.00	0.00	-0.00	-0.04
	8	0.70	0.18	0.00	0.00	-0.00	-0.04
488	1	0.35	0.07	0.00	0.00	0.00	-0.02
	2	0.60	0.12	0.00	0.00	0.00	-0.03
	3	0.01	-0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.03	0.00	0.00	0.00	0.01
	5	-0.02	-0.02	0.00	0.00	0.00	0.00
	6	0.22	0.04	0.00	0.00	0.00	-0.01
	7	0.82	0.18	0.00	0.00	0.00	-0.04
	8	0.70	0.15	0.00	0.00	0.00	-0.04
489	1	0.35	0.06	0.00	0.00	-0.00	-0.02
	2	0.60	0.10	0.00	0.00	-0.00	-0.03
	3	0.01	-0.00	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.11	-0.02	0.00	0.00	-0.00	0.01
	5	-0.02	-0.02	0.00	0.00	-0.00	0.00
	6	0.22	0.03	0.00	0.00	-0.00	-0.01
	7	0.82	0.15	0.00	0.00	-0.00	-0.04
	8	0.70	0.13	0.00	0.00	-0.00	-0.04
490	1	0.35	0.05	0.00	0.00	0.00	-0.02
	2	0.60	0.08	0.00	0.00	0.00	-0.03
	3	0.01	-0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.02	0.00	0.00	0.00	0.01
	5	-0.02	-0.02	0.00	0.00	0.00	0.00
	6	0.22	0.02	0.00	0.00	0.00	-0.01
	7	0.82	0.12	0.00	0.00	0.00	-0.04
	8	0.70	0.10	0.00	0.00	0.00	-0.04
491	1	0.35	0.04	0.00	0.00	0.00	-0.02
	2	0.60	0.06	0.00	0.00	0.00	-0.03
	3	0.01	-0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.02	0.00	0.00	0.00	0.01
	5	-0.02	-0.01	0.00	0.00	0.00	0.00
	6	0.22	0.01	0.00	0.00	0.00	-0.01
	7	0.82	0.09	0.00	0.00	0.00	-0.04
	8	0.70	0.08	0.00	0.00	0.00	-0.04
492	1	0.35	0.02	0.00	0.00	-0.00	-0.02
	2	0.60	0.04	0.00	0.00	-0.00	-0.03
	3	0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.01	0.00	0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.22	0.01	0.00	0.00	-0.00	-0.01
	7	0.82	0.06	0.00	0.00	-0.00	-0.04
	8	0.70	0.05	0.00	0.00	-0.00	-0.04
493	1	0.35	0.01	0.00	0.00	0.00	-0.02
	2	0.60	0.02	0.00	0.00	0.00	-0.03
	3	0.01	-0.00	0.00	0.00	0.00	-0.00
	4	-0.11	-0.01	0.00	0.00	0.00	0.01
	5	-0.02	-0.01	0.00	0.00	0.00	0.00
	6	0.22	-0.00	0.00	0.00	0.00	-0.01
	7	0.82	0.04	0.00	0.00	0.00	-0.04
	8	0.70	0.03	0.00	0.00	0.00	-0.04
494	1	0.35	0.00	0.00	0.00	-0.00	-0.02
	2	0.60	0.00	0.00	0.00	-0.00	-0.03
	3	0.01	-0.00	0.00	0.00	-0.00	-0.00
	4	-0.11	-0.01	0.00	0.00	-0.00	0.01
	5	-0.02	-0.01	0.00	0.00	-0.00	0.00
	6	0.22	-0.01	0.00	0.00	-0.00	-0.01
	7	0.82	0.01	0.00	0.00	-0.00	-0.04
	8	0.70	0.00	0.00	0.00	-0.00	-0.04
495	1	0.35	-0.24	0.00	0.00	0.00	-0.02
	2	0.60	-0.42	0.00	0.00	0.00	-0.03
	3	0.01	-0.01	0.00	0.00	0.00	-0.00
	4	-0.11	0.06	0.00	0.00	0.00	0.01
	5	-0.02	0.01	0.00	0.00	0.00	0.00
	6	0.22	-0.16	0.00	0.00	0.00	-0.01
	7	0.82	-0.60	0.00	0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.70	-0.52	0.00	0.00	0.00	-0.04
496	1	0.35	-0.25	0.00	0.00	0.00	-0.02
	2	0.60	-0.43	0.00	0.00	0.00	-0.03
	3	0.01	-0.01	0.00	0.00	0.00	-0.00
	4	-0.11	0.07	0.00	0.00	0.00	0.01
	5	-0.02	0.01	0.00	0.00	0.00	0.00
	6	0.22	-0.17	0.00	0.00	0.00	-0.01
	7	0.82	-0.61	0.00	0.00	0.00	-0.04
	8	0.70	-0.54	0.00	0.00	0.00	-0.04
497	1	0.35	-0.26	0.00	0.00	0.00	-0.02
	2	0.60	-0.44	0.00	0.00	0.00	-0.03
	3	0.01	-0.01	0.00	0.00	0.00	-0.00
	4	-0.11	0.07	0.00	0.00	0.00	0.01
	5	-0.02	0.01	0.00	0.00	0.00	0.00
	6	0.22	-0.17	0.00	0.00	0.00	-0.01
	7	0.82	-0.63	0.00	0.00	0.00	-0.04
	8	0.70	-0.55	0.00	0.00	0.00	-0.04
498	1	0.35	-0.27	0.00	0.00	0.00	-0.02
	2	0.60	-0.46	0.00	0.00	0.00	-0.03
	3	0.01	-0.01	0.00	0.00	0.00	-0.00
	4	-0.11	0.07	0.00	0.00	0.00	0.01
	5	-0.02	0.01	0.00	0.00	0.00	0.00
	6	0.22	-0.18	0.00	0.00	0.00	-0.01
	7	0.82	-0.65	0.00	0.00	0.00	-0.04
	8	0.70	-0.57	0.00	0.00	0.00	-0.04
499	1	0.35	-0.28	0.00	0.00	-0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.60	-0.48	0.00	0.00	-0.00	-0.03
	3	0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	-0.11	0.07	0.00	0.00	-0.00	0.01
	5	-0.02	0.01	0.00	0.00	-0.00	0.00
	6	0.22	-0.19	0.00	0.00	-0.00	-0.01
	7	0.82	-0.68	0.00	0.00	-0.00	-0.04
	8	0.70	-0.59	0.00	0.00	-0.00	-0.04
500	1	0.35	-0.29	0.00	0.00	-0.00	-0.02
	2	0.60	-0.50	0.00	0.00	-0.00	-0.03
	3	0.01	-0.01	0.00	0.00	-0.00	-0.00
	4	-0.11	0.08	0.00	0.00	-0.00	0.01
	5	-0.02	0.02	0.00	0.00	-0.00	0.00
	6	0.22	-0.19	0.00	0.00	-0.00	-0.01
	7	0.82	-0.71	0.00	0.00	-0.00	-0.04
	8	0.70	-0.62	0.00	0.00	-0.00	-0.04
501	1	0.35	-0.30	0.00	0.00	0.00	-0.02
	2	0.60	-0.52	0.00	0.00	0.00	-0.03
	3	0.01	-0.01	0.00	0.00	0.00	-0.00
	4	-0.11	0.08	0.00	0.00	0.00	0.01
	5	-0.02	0.02	0.00	0.00	0.00	0.00
	6	0.22	-0.20	0.00	0.00	0.00	-0.01
	7	0.82	-0.74	0.00	0.00	0.00	-0.04
	8	0.70	-0.64	0.00	0.00	0.00	-0.04
502	1	0.35	-0.31	0.00	0.00	-0.00	-0.02
	2	0.60	-0.54	0.00	0.00	-0.00	-0.03
	3	0.01	-0.01	0.00	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.11	0.09	0.00	0.00	-0.00	0.01
	5	-0.02	0.02	0.00	0.00	-0.00	0.00
	6	0.22	-0.21	0.00	0.00	-0.00	-0.01
	7	0.82	-0.77	0.00	0.00	-0.00	-0.04
	8	0.70	-0.67	0.00	0.00	-0.00	-0.04
503	1	0.35	-0.33	0.00	0.00	0.00	-0.02
	2	0.60	-0.56	0.00	0.00	0.00	-0.03
	3	0.01	-0.01	0.00	0.00	0.00	-0.00
	4	-0.11	0.09	0.00	0.00	0.00	0.01
	5	-0.02	0.02	0.00	0.00	0.00	0.00
	6	0.22	-0.22	0.00	0.00	0.00	-0.01
	7	0.82	-0.80	0.00	0.00	0.00	-0.04
	8	0.70	-0.69	0.00	0.00	0.00	-0.04
504	1	0.35	-0.34	0.00	0.00	-0.00	-0.02
	2	0.60	-0.58	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.09	0.00	0.00	-0.00	0.01
	5	-0.02	0.02	0.00	0.00	-0.00	0.00
	6	0.22	-0.22	0.00	0.00	-0.00	-0.01
	7	0.82	-0.83	0.00	0.00	-0.00	-0.04
	8	0.70	-0.72	0.00	0.00	-0.00	-0.04
505	1	0.35	-0.35	0.00	0.00	0.00	-0.02
	2	0.60	-0.60	0.00	0.00	0.00	-0.03
	3	0.01	-0.02	0.00	0.00	0.00	-0.00
	4	-0.11	0.10	0.00	0.00	0.00	0.01
	5	-0.02	0.02	0.00	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.22	-0.23	0.00	0.00	0.00	-0.01
	7	0.82	-0.86	0.00	0.00	0.00	-0.04
	8	0.70	-0.74	0.00	0.00	0.00	-0.04
506	1	0.35	-0.36	0.00	0.00	0.00	-0.02
	2	0.60	-0.62	0.00	0.00	0.00	-0.03
	3	0.01	-0.02	0.00	0.00	0.00	-0.00
	4	-0.11	0.10	0.00	0.00	0.00	0.01
	5	-0.02	0.02	0.00	0.00	0.00	0.00
	6	0.22	-0.24	0.00	0.00	0.00	-0.01
	7	0.82	-0.88	0.00	0.00	0.00	-0.04
	8	0.70	-0.77	0.00	0.00	0.00	-0.04
507	1	0.35	-0.37	0.00	0.00	-0.00	-0.02
	2	0.60	-0.64	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.10	0.00	0.00	-0.00	0.01
	5	-0.02	0.02	0.00	0.00	-0.00	0.00
	6	0.22	-0.25	0.00	0.00	-0.00	-0.01
	7	0.82	-0.91	0.00	0.00	-0.00	-0.04
	8	0.70	-0.79	0.00	0.00	-0.00	-0.04
508	1	0.35	-0.38	0.00	0.00	-0.00	-0.02
	2	0.60	-0.66	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.10	0.00	0.00	-0.00	0.01
	5	-0.02	0.02	0.00	0.00	-0.00	0.00
	6	0.22	-0.25	0.00	0.00	-0.00	-0.01
	7	0.82	-0.93	0.00	0.00	-0.00	-0.04

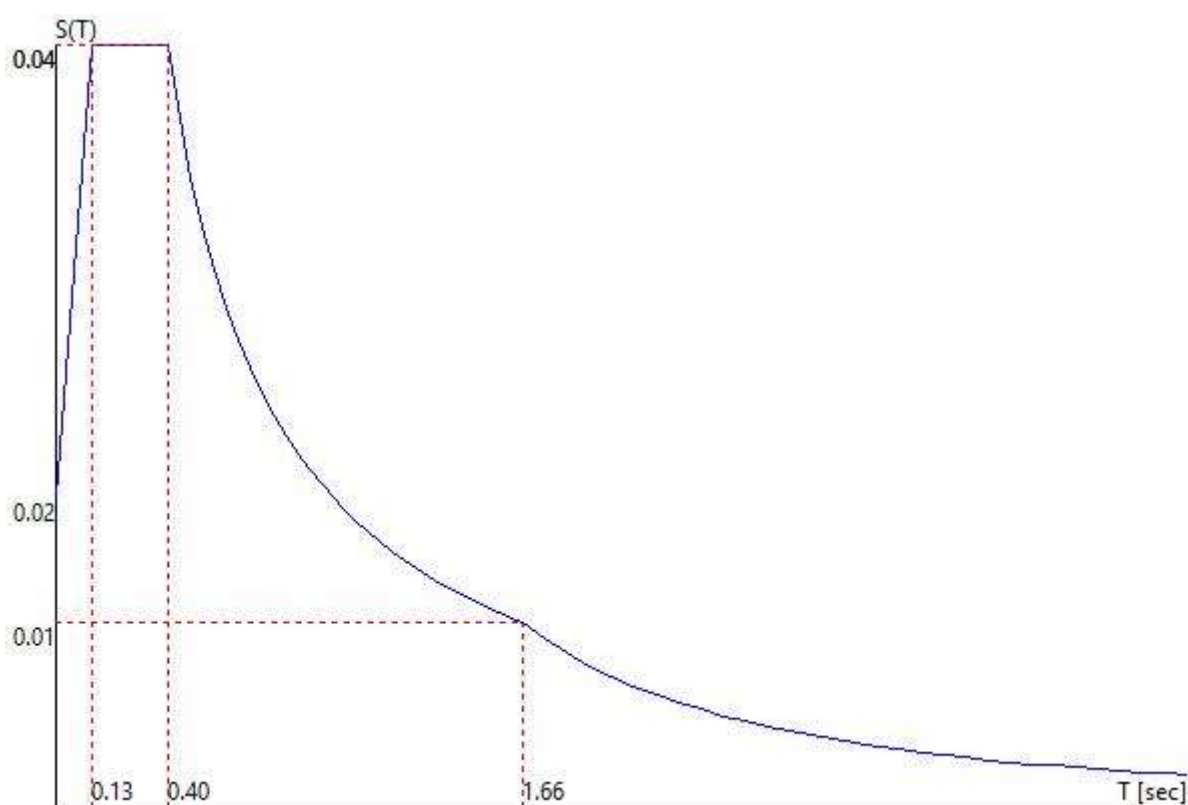
Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.70	-0.81	0.00	0.00	-0.00	-0.04
509	1	0.35	-0.39	0.00	0.00	-0.00	-0.02
	2	0.60	-0.67	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.11	0.00	0.00	-0.00	0.01
	5	-0.02	0.02	0.00	0.00	-0.00	0.00
	6	0.22	-0.26	0.00	0.00	-0.00	-0.01
	7	0.82	-0.95	0.00	0.00	-0.00	-0.04
	8	0.70	-0.83	0.00	0.00	-0.00	-0.04
510	1	0.35	-0.39	0.00	0.00	0.00	-0.02
	2	0.60	-0.68	0.00	0.00	0.00	-0.03
	3	0.01	-0.02	0.00	0.00	0.00	-0.00
	4	-0.11	0.11	0.00	0.00	0.00	0.01
	5	-0.02	0.03	0.00	0.00	0.00	0.00
	6	0.22	-0.26	0.00	0.00	0.00	-0.01
	7	0.82	-0.96	0.00	0.00	0.00	-0.04
	8	0.70	-0.84	0.00	0.00	0.00	-0.04
511	1	0.35	-0.40	0.00	0.00	-0.00	-0.02
	2	0.60	-0.69	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.11	0.00	0.00	-0.00	0.01
	5	-0.02	0.03	0.00	0.00	-0.00	0.00
	6	0.22	-0.26	0.00	0.00	-0.00	-0.01
	7	0.82	-0.98	0.00	0.00	-0.00	-0.04
	8	0.70	-0.86	0.00	0.00	-0.00	-0.04
512	1	0.35	-0.41	0.00	0.00	0.00	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	2	0.60	-0.71	0.00	0.00	0.00	-0.03
	3	0.01	-0.02	0.00	0.00	0.00	-0.00
	4	-0.11	0.11	0.00	0.00	0.00	0.01
	5	-0.02	0.03	0.00	0.00	0.00	0.00
	6	0.22	-0.27	0.00	0.00	0.00	-0.01
	7	0.82	-1.01	0.00	0.00	0.00	-0.04
	8	0.70	-0.88	0.00	0.00	0.00	-0.04
513	1	0.35	-0.42	0.00	0.00	-0.00	-0.02
	2	0.60	-0.72	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.12	0.00	0.00	-0.00	0.01
	5	-0.02	0.03	0.00	0.00	-0.00	0.00
	6	0.22	-0.28	0.00	0.00	-0.00	-0.01
	7	0.82	-1.03	0.00	0.00	-0.00	-0.04
	8	0.70	-0.90	0.00	0.00	-0.00	-0.04
514	1	0.35	-0.43	0.00	0.00	-0.00	-0.02
	2	0.60	-0.74	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.12	0.00	0.00	-0.00	0.01
	5	-0.02	0.03	0.00	0.00	-0.00	0.00
	6	0.22	-0.28	0.00	0.00	-0.00	-0.01
	7	0.82	-1.05	0.00	0.00	-0.00	-0.04
	8	0.70	-0.92	0.00	0.00	-0.00	-0.04
515	1	0.35	-0.44	0.00	0.00	0.00	-0.02
	2	0.60	-0.76	0.00	0.00	0.00	-0.03
	3	0.01	-0.02	0.00	0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	4	-0.11	0.12	0.00	0.00	0.00	0.01
	5	-0.02	0.03	0.00	0.00	0.00	0.00
	6	0.22	-0.29	0.00	0.00	0.00	-0.01
	7	0.82	-1.08	0.00	0.00	0.00	-0.04
	8	0.70	-0.94	0.00	0.00	0.00	-0.04
516	1	0.35	-0.45	0.00	0.00	-0.00	-0.02
	2	0.60	-0.77	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.12	0.00	0.00	-0.00	0.01
	5	-0.02	0.03	0.00	0.00	-0.00	0.00
	6	0.22	-0.29	0.00	0.00	-0.00	-0.01
	7	0.82	-1.10	0.00	0.00	-0.00	-0.04
	8	0.70	-0.96	0.00	0.00	-0.00	-0.04
517	1	0.35	-0.46	0.00	0.00	0.00	-0.02
	2	0.60	-0.79	0.00	0.00	0.00	-0.03
	3	0.01	-0.02	0.00	0.00	0.00	-0.00
	4	-0.11	0.13	0.00	0.00	0.00	0.01
	5	-0.02	0.03	0.00	0.00	0.00	0.00
	6	0.22	-0.30	0.00	0.00	0.00	-0.01
	7	0.82	-1.12	0.00	0.00	0.00	-0.04
	8	0.70	-0.98	0.00	0.00	0.00	-0.04
518	1	0.35	-0.47	0.00	0.00	-0.00	-0.02
	2	0.60	-0.80	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.13	0.00	0.00	-0.00	0.01
	5	-0.02	0.03	0.00	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	6	0.22	-0.31	0.00	0.00	-0.00	-0.01
	7	0.82	-1.15	0.00	0.00	-0.00	-0.04
	8	0.70	-1.00	0.00	0.00	-0.00	-0.04
519	1	0.35	-0.48	0.00	0.00	0.00	-0.02
	2	0.60	-0.82	0.00	0.00	0.00	-0.03
	3	0.01	-0.02	0.00	0.00	0.00	-0.00
	4	-0.11	0.13	0.00	0.00	0.00	0.01
	5	-0.02	0.03	0.00	0.00	0.00	0.00
	6	0.22	-0.31	0.00	0.00	0.00	-0.01
	7	0.82	-1.17	0.00	0.00	0.00	-0.04
	8	0.70	-1.02	0.00	0.00	0.00	-0.04
520	1	0.35	-0.49	0.00	0.00	-0.00	-0.02
	2	0.60	-0.84	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.03	0.00	0.00	-0.00	0.00
	6	0.22	-0.32	0.00	0.00	-0.00	-0.01
	7	0.82	-1.19	0.00	0.00	-0.00	-0.04
	8	0.70	-1.04	0.00	0.00	-0.00	-0.04
521	1	0.35	-0.49	0.00	0.00	0.00	-0.02
	2	0.60	-0.85	0.00	0.00	0.00	-0.03
	3	0.01	-0.02	0.00	0.00	0.00	-0.00
	4	-0.11	0.14	0.00	0.00	0.00	0.01
	5	-0.02	0.03	0.00	0.00	0.00	0.00
	6	0.22	-0.32	0.00	0.00	0.00	-0.01
	7	0.82	-1.21	0.00	0.00	0.00	-0.04

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	8	0.70	-1.06	0.00	0.00	0.00	-0.04
522	1	0.35	-0.50	0.00	0.00	-0.00	-0.02
	2	0.60	-0.87	0.00	0.00	-0.00	-0.03
	3	0.01	-0.02	0.00	0.00	-0.00	-0.00
	4	-0.11	0.14	0.00	0.00	-0.00	0.01
	5	-0.02	0.04	0.00	0.00	-0.00	0.00
	6	0.22	-0.33	0.00	0.00	-0.00	-0.01
	7	0.82	-1.24	0.00	0.00	-0.00	-0.04
	8	0.70	-1.08	0.00	0.00	-0.00	-0.04



Fattori di partecipazione per il calcolo delle masse

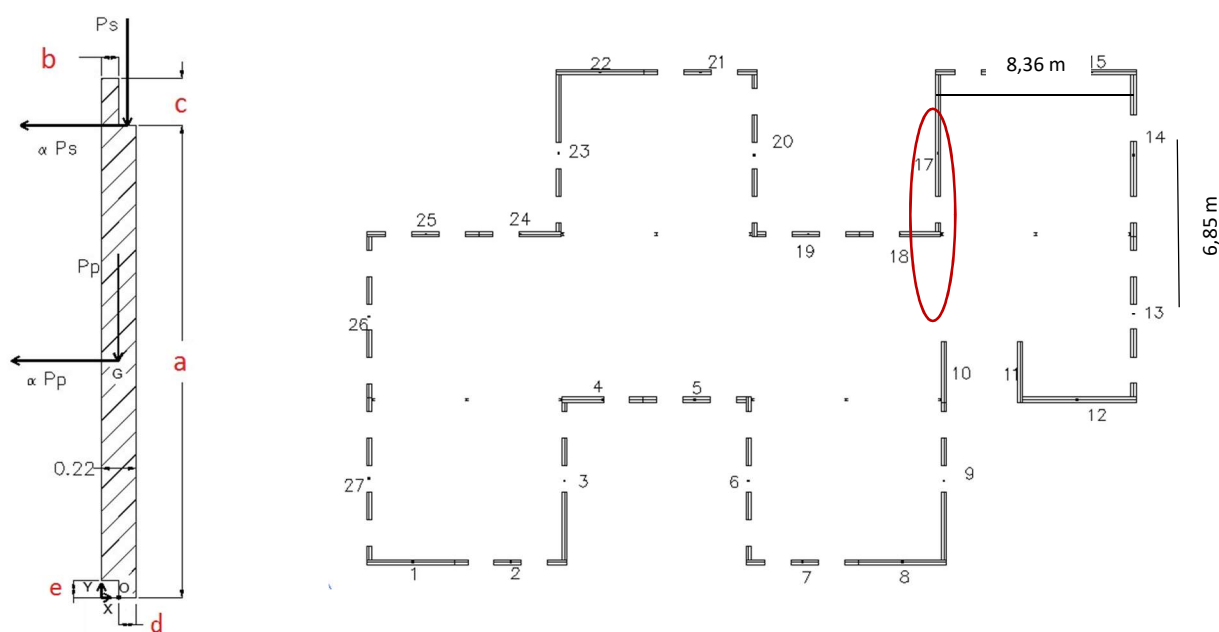
Cond. Carico 1 Cond. 1 1.0000
Cond. Carico 2 Cond. 2 1.0000
Cond. Carico 3 Cond. 3 1.0000
Cond. Carico 4 Cond. 4 1.0000
Cond. Carico 5 Cond. 5 0.0000

Angoli d'ingresso del Sisma

- SLD Direzione 1 Angolo in pianta 0.00 [°]
- SLD Direzione 2 Angolo in pianta 0.00 [°]
- SLD Direzione 3 Angolo in pianta 90.00 [°]
- SLD Direzione 4 Angolo in pianta 90.00 [°]
- SLD Direzione 5 Angolo in pianta 180.00 [°]
- SLD Direzione 6 Angolo in pianta 180.00 [°]
- SLD Direzione 7 Angolo in pianta 270.00 [°]
- SLD Direzione 8 Angolo in pianta 270.00 [°]

CALCOLO DELL'INDICE DI RISCHIO ALLO STATO LIMITE DI SAVAGUARDIA DELLA VITA

Come è possibile notare in figura il carico del solaio è in realtà un carico stabilizzante, mentre il peso proprio del pannello è destabilizzante, di conseguenza i pannelli che prima si ribalteranno saranno quelli più pesanti (con meno aperture) e disposti parallelamente all'orditura del solaio. Si analizza perciò il meccanismo di ribaltamento del pannello più instabile al fine di calcolare il moltiplicatore α . Il pannello di riferimento nel calcolo è il numero 17 indicato in figura.



a [m]	b [m]	c [m]	d [m]	e [m]	A tot pannello [mq]
3.000	0.110	0.300	0.110	0.110	0.681

Posizione del baricentro rispetto all'origine G (X_G ; Y_G)

X_G [m]	0.106
Y_G [m]	1.554

Le forze in gioco sono :

- P_s = Peso trasmesso al pannello dal solaio
- P_p = Peso proprio del pannello

G_{perm} [kg/mq]	358
Dim. 1 solaio [m]	6.85
Dim. 2 solaio [m]	8.36
Area [mq]	57.266

% di peso ripartito sul pannello	10
----------------------------------	----

Volume aperture nel pannello [mc]	0.455
Peso cls pannello [kg/mc]	1220

Ps [kg]	2050.12
Pp [kg]	5134.69

I bracci di rotazione di queste forze rispetto al punto "O" sono:

d _{pp}	0.004
d _{ps}	0.073

Uguagliando il momento stabilizzante a quello destabilizzante ($M_{stab}=M_{destab}$) è possibile ricavare il moltiplicatore di collasso α .

$$P_s \cdot d_{ps} = \alpha \cdot P_s \cdot a + P_p \cdot d_{pp} + \alpha \cdot P_p \cdot Y_G \rightarrow \alpha = 0,0093$$

Si ricava ora il valore di a_g che porta la struttura in questa condizione in relazione ai parametri sismici del sito definiti dalle norme tecniche.

Vn [anni]	50
Cu	III
Terreno	B
Cat.Topografica	T1
a_g/g	0.212633
Fo	2.48405
T^*c [sec]	0.305585
Cc	1.394
Tb	0.142
Tc	0.426
Td	2.451
η	1

Sapendo che la struttura ha un periodo T_1 pari a 1,69 secondi, il valore di p_{ga} che porterà la struttura allo stato limite di danno sarà:

$$a_g/g = \alpha / [S \eta F_0 (T_c/T_1)] = 0,01248$$

I_{RSLV}	0.058927
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ADEGUAMENTO SISMICO

Condizioni e combinazioni di carico

Convenzioni adottate

Nel seguito vengono riportate il numero di condizioni di carico statiche e dinamiche che sollecitano la struttura. Si noti che:

- Per quanto riguarda le condizioni di carico dinamiche, il programma assimila ogni direzione di ingresso del sisma, definita dal progettista, ad una condizione di carico. Pertanto qualora agiscano sulla struttura n condizioni di carico statiche e il progettista abbia supposto che la struttura venga sollecitata da un sisma entrante in m direzioni, la struttura stessa viene considerata del programma come soggetta ad $n + m$ condizioni di carico.
- Le combinazioni di carico, definite dal progettista, combinano fra loro le $n + m$ condizioni di carico ognuna partecipante alla combinazione i -esima secondo i fattori di partecipazione nel seguito riportati. N.B.: se la condizione j -esima ha fattore di partecipazione unitario, allora partecipa per intero alla combinazione i -esima.
- Le prime n condizioni sono sempre statiche mentre sono di origine dinamica le (eventuali) condizioni da $n+1$ a $n+m$.

Condizioni di carico definite:

Condizione

1	Cond. 1
2	Cond. 2
3	Cond. 3
4	Cond. 4
5	Cond. 5
6	Sisma 0SLV
7	Sisma 0SLV
8	Sisma 90SLV
9	Sisma 90SLV
10	Sisma 180SLV
11	Sisma 180SLV

Condizione

12	Sisma 270SLV
13	Sisma 270SLV
14	Sisma 0SLD
15	Sisma 0SLD
16	Sisma 90SLD
17	Sisma 90SLD
18	Sisma 180SLD
19	Sisma 180SLD
20	Sisma 270SLD
21	Sisma 270SLD

Combinazioni agli Stati Limite Ultimi

Combinazione di carico numero

1

Comb.\Cond 1 2 3 4 5

1	1.3	1.3	1.3	1.3	1.5
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Combinazioni agli Stati Limite di Salvaguardia della Vita

Combinazione di carico numero

2	Sisma 0+ / 90+
3	Sisma 0+ / 270+
4	Sisma 0- / 90-

Combinazione di carico numero

5	Sisma 0- / 270-
6	Sisma 90+ / 0+
7	Sisma 90+ / 180+
8	Sisma 90- / 0-
9	Sisma 90- / 180-
10	Sisma 180+ / 90+
11	Sisma 180+ / 270+
12	Sisma 180- / 90-
13	Sisma 180- / 270-
14	Sisma 270+ / 0+
15	Sisma 270+ / 180+
16	Sisma 270- / 0-
17	Sisma 270- / 180-

Comb.\Cond 1 2 3 4 6 7 8 9 10 11 12 13

2	1	1	1	1	1		0.3					
3	1	1	1	1	1						0.3	
4	1	1	1	1		1		0.3				
5	1	1	1	1		1						0.3
6	1	1	1	1	0.3		1					
7	1	1	1	1			1		0.3			
8	1	1	1	1		0.3		1				
9	1	1	1	1				1		0.3		
10	1	1	1	1			0.3		1			
11	1	1	1	1					1		0.3	
12	1	1	1	1				0.3		1		

13	1	1	1	1						1		0.3
14	1	1	1	1	0.3						1	
15	1	1	1	1					0.3		1	
16	1	1	1	1		0.3						1
17	1	1	1	1						0.3		1

Combinazioni agli Stati Limite di Danno

Combinazione di carico numero

18	Sisma 0+ / 90+
19	Sisma 0+ / 270+
20	Sisma 0- / 90-
21	Sisma 0- / 270-
22	Sisma 90+ / 0+
23	Sisma 90+ / 180+
24	Sisma 90- / 0-
25	Sisma 90- / 180-
26	Sisma 180+ / 90+
27	Sisma 180+ / 270+
28	Sisma 180- / 90-
29	Sisma 180- / 270-
30	Sisma 270+ / 0+
31	Sisma 270+ / 180+
32	Sisma 270- / 0-
33	Sisma 270- / 180-

Comb.\Cond **1** **2** **3** **4** **14** **15** **16** **17** **18** **19** **20** **21**

18	1	1	1	1	1		0.3					
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19	1	1	1	1	1						0.3	
20	1	1	1	1		1		0.3				
21	1	1	1	1		1						0.3
22	1	1	1	1	0.3		1					
23	1	1	1	1			1		0.3			
24	1	1	1	1		0.3		1				
25	1	1	1	1				1		0.3		
26	1	1	1	1			0.3		1			
27	1	1	1	1					1		0.3	
28	1	1	1	1				0.3		1		
29	1	1	1	1						1		0.3
30	1	1	1	1	0.3						1	
31	1	1	1	1					0.3		1	
32	1	1	1	1		0.3						1
33	1	1	1	1						0.3		1

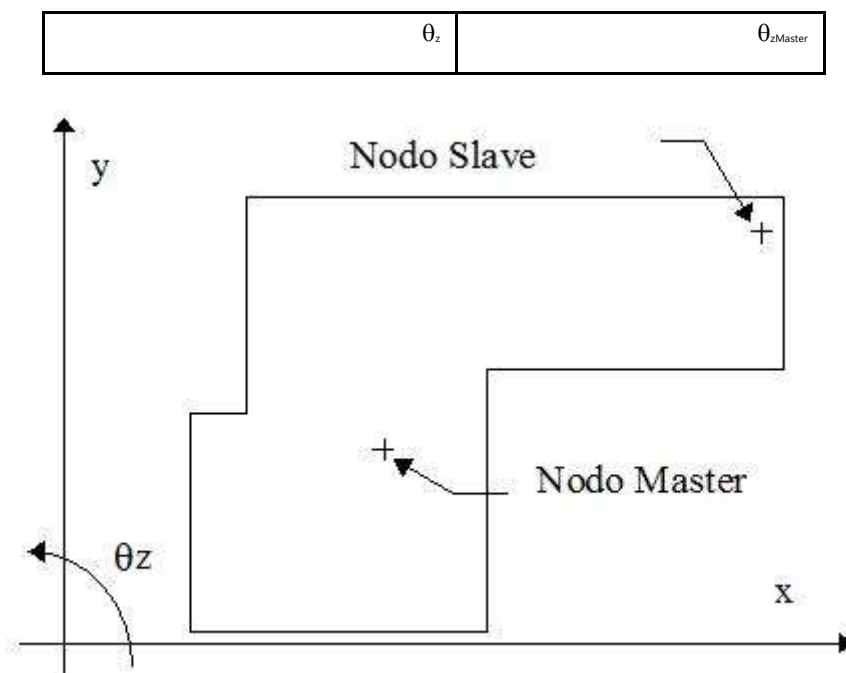
Dati relativi ai solai della struttura

Convenzioni adottate

Nel seguito con la dizione *solai non* sono individuati i solai che effettivamente verranno realizzati nella struttura bensì gli orizzontamenti ai quali appartengono nodi per i quali vale l'ipotesi di impalcato infinitamente rigido.

Seguendo tale ipotesi di calcolo, le componenti di spostamento del singolo nodo di impalcato vengono in parte riferite a quelle di un nodo *master*, solitamente coincidente con il centro di massa dell'impalcato. In particolare le componenti di spostamento nodale sono così definite:

Componente di spostamento	espressa da
U_x	$U_{xMaster} - \theta_{zMaster} \times (Y_{Master} - Y_{Nodo})$
U_y	$U_{yMaster} + \theta_{zMaster} \times (X_{Master} - X_{Nodo})$
U_z	U_{zNodo}
θ_x	θ_{xNodo}
θ_y	θ_{yNodo}



Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m ²]
1	16.89	10.80	3.00	17732.7	2184153.3

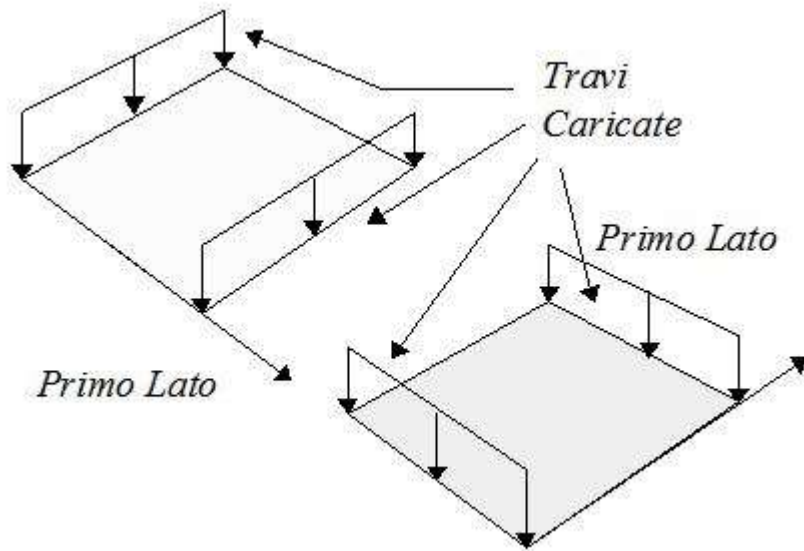
Dati relativi alle aree di carico

Convenzioni adottate

Nel seguito sono riportate le *aree di carico* definite nel progetto.

Un'*area di carico* è definita da una superficie contornata da travi di bordo ed i carichi superficiali su essa agenti vengono riportati dal programma sulle travi perimetrali in ragione dell'area di influenza relativa ad ogni trave e della direzione di orditura della superficie.

È importante rilevare che **la direzione di orditura viene assunta dal programma con riferimento al primo lato della superficie di carico e non con riferimento all'asse x globale della struttura.**



Esempio: *direzione* di orditura 0 gradi.

In particolare ricordiamo che le *aree di carico* fungono esclusivamente da supporto per il calcolo dei carichi di tipo superficiale in quanto i carichi definiti tramite tali *aree di carico* in effetti vengono trasferiti (sotto forma di carichi lineari o carichi nodali concentrati nei nodi) sulle travi perimetrali che contornano l'area di carico stessa.

A seguire vengono riportati per ogni tipologia definita i carichi agenti nelle varie condizioni di carico. La dizione:

Globale

indica che il carico è definito nel sistema di riferimento globale della struttura.

Globale Proiettato

indica che il carico è definito nel sistema di riferimento globale della struttura ma il valore viene computato in proiezione.

Locale

indica che il carico è definito nel sistema di riferimento locale della superficie di carico.

Area di Carico Numero Commento

1	Area 1
2	Area 2
3	Area 3

Tipo	Alfa	Condizione	Carico Trasmesso	Riferimento	qx [kg/m²] Qx [kg]	qy [kg/m²] Qy [kg]	qz [kg/m²] Qz [kg]
------	------	------------	---------------------	-------------	-----------------------------	-----------------------------	-----------------------------

1	0.00	2	Ai Nodi	Globale	0.0	0.0	300.0
					-0.0	0.0	91079.8
1	0.00	3	Ai Nodi	Globale	0.0	0.0	50.0
					0.0	-0.0	15180.0
1	0.00	4	Ai Nodi	Globale	0.0	0.0	8.0
					-0.0	-0.0	2428.8
1	0.00	5	Ai Nodi	Globale	0.0	0.0	120.0
					-0.0	0.0	36431.9
2	0.00	2	Ai Nodi	Globale	0.0	0.0	300.0
					0.0	0.0	18384.2
2	0.00	3	Ai Nodi	Globale	0.0	0.0	50.0
					0.0	0.0	3064.0
2	0.00	4	Ai Nodi	Globale	0.0	0.0	8.0
					0.0	0.0	490.2
2	0.00	5	Ai Nodi	Globale	0.0	0.0	120.0
					0.0	0.0	7353.7
3	0.00	2	Ai Nodi	Globale	0.0	0.0	300.0
					0.0	0.0	36310.9
3	0.00	3	Ai Nodi	Globale	0.0	0.0	50.0
					0.0	0.0	6051.8
3	0.00	4	Ai Nodi	Globale	0.0	0.0	8.0
					0.0	0.0	968.3
3	0.00	5	Ai Nodi	Globale	0.0	0.0	120.0

Tipo	Alfa	Condizione	Carico Trasmesso	Riferimento	qx [kg/m ²] Qx [kg]	qy [kg/m ²] Qy [kg]	qz [kg/m ²] Qz [kg]
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					0.0	0.0	14524.4

Tipologia

Nodi

1	4139 4209 4216 4220 4224 4228 4229 4233 4237 4240 4242
	4246 4249 4253 4257 4261 4265 4266 4270 4272 4275 4277
	4280 4283 4287 3841 3836 3831 3825 3820 3812 3805 3804
	3890 3888 3887 3886 4307 4306 3884 4305 3882 4304 4303
	3878 3877 4302 3876 4301 4300 3872 3871 4299 4286 4279
	4274 4269 4263 4259 4254 4250 4245 4241 4236 4232 4227
	4223 4219 4215 4212 4208 4185 4186 4111 4112 4113 4114
	4115 4116 4117 4118 4119 4120 4121 4122 4123 4124 4125
	4126 4127 4128 4129 4130 4131 4132 4133 4134 4135 4136
	4137 4138 4139
1	4110 4210 4214 4218 4222 4226 4231 4235 4239 4244 4248
	4252 4256 4260 4264 4268 4273 4278 4282 4285 4298 3869
	4297 3867 4296 4295 3863 3862 400 3860 4294 4293 3858
	4292 4291 3857 3855 4290 3853 4289 3851 3850 4288 4284
	4281 4276 4271 4267 4262 4258 4255 4251 4247 4243 4238
	4234 4230 4225 4221 4217 4213 4211 4207 4155 4156 4157
	4158 4159 4160 4161 4162 4163 4164 4165 4166 4167 4168
	4169 4095 4096 4097 4098 4099 4100 4101 4102 4103 4104
	4105 4106 4107 4108 4109 4110
1	700 800 900 1000 1100 1200 1300 1400 1500 1600 1700
	1800 1900 2000 3810 3811 2100 3813 3814 2200 3815 3816

Tipologia
Nodi

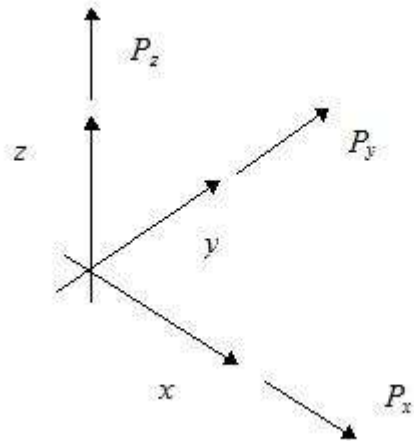
	2300 2400 2500 3826 3829 3834 3839 3844 3847 3854 3859
	3866 3874 3879 3885 3893 3897 3901 3905 3909 3913 3917
	3921 3924 3928 3960 3959 3958 3957 3956 3955 3954 3953
	3952 3951 3950 3949 3948 3947 3946 3945 3944 3943 3942
	3941 3940 3939 3938 3937 3936 3935 3934 3933 3932 3931
	3930 3927 3920 3916 3912 3908 3904 3900 3896 3892 3883
	3875 3868 3861 3849 3845 3840 3835 3830 3824 700
1	500 600 2600 3817 3818 2700 3819 3821 2800 3822 3823
	2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3806
	3807 3808 3809 3827 3833 3838 3843 3848 3856 3865 3873
	3881 3891 3895 3899 3903 3907 3911 3915 3919 3923 3925
	3929 4021 4020 4004 4003 4002 4001 4000 3999 3998 3997
	3996 3995 3994 3993 3992 3991 3990 3989 3988 3987 3986
	3985 3984 3983 3982 3981 3980 3979 3978 3977 3976 3926
	3922 3918 3914 3910 3906 3902 3898 3894 3889 3880 3870
	3864 3852 3846 3842 3837 3832 3828 500
1	4021 4022 4023 4024 4025 4026 4027 4028 4029 4030 4031
	4032 4033 4041 4045 4049 4053 4057 4061 4063 4067 4121
	4120 4119 4118 4117 4116 4115 4114 4113 4112 4111 4186
	4185 4066 4062 4060 4056 4052 4048 4044 4040 4021
1	4033 4005 4006 4007 4034 4035 4008 4036 4037 4009 4010
	4011 4039 4042 4047 4051 4055 4059 4065 4069 4071 4073
	4075 4077 4079 4081 4083 4085 4087 4089 4090 4092 4094
	4139 4137 4136 4135 4134 4133 4132 4131 4130 4129 4128
	4127 4126 4125 4124 4123 4122 4121 4067 4063 4061 4057
	4053 4049 4045 4041 4033
2	3930 3931 3932 3933 3934 3935 3936 3937 3938 3939 3940

Tipologia**Nodi**

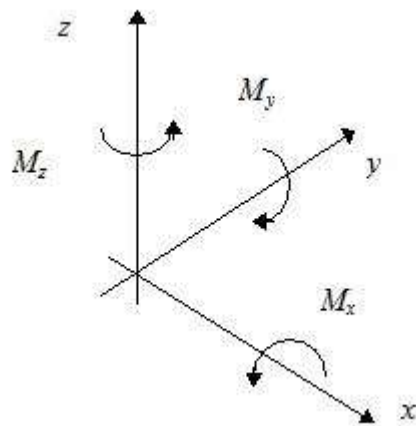
	3941 3942 3943 3944 3945 3946 3947 3948 3949 3950 3951
	3952 3953 3954 3955 3956 3957 3958 3959 3960 4155 4154
	4196 4153 4195 4152 4151 4194 4193 4150 4149 4148 4147
	4146 4145 4192 4191 4144 4190 4189 4143 4188 4187 4142
	4141 4140 4093 4091 4088 4086 4084 4082 4080 4078 4076
	4074 4072 4070 4068 4064 4058 4054 4050 4046 4043 4038
	3930
3	3960 3961 3962 3963 3964 4012 4013 3965 3966 3967 3968
	3969 3970 4014 4015 3971 4016 4017 3972 4018 4019 3973
	3974 3975 3976 4110 4109 4108 4107 4106 4105 4104 4103
	4102 4101 4100 4099 4098 4097 4096 4095 4169 4168 4167
	4166 4165 4164 4163 4162 4161 4160 4159 4158 4157 4156
	4155 3960
3	3976 3977 3978 3979 3980 3981 3982 3983 3984 3985 3986
	3987 3988 3989 3990 3991 3992 3993 3994 3995 3996 3997
	3998 3999 4000 4001 4002 4003 4004 4020 4021 4040 4044
	4048 4052 4056 4060 4062 4066 4185 4184 4206 4183 4205
	4182 4181 4204 4203 4180 4179 4178 4177 4176 4175 4202
	4201 4174 4200 4199 4173 4198 4197 4172 4171 4170 4110
	3976

Carichi e coppie applicati ai nodi**Convenzioni adottate**

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per i carichi o per le coppie direttamente applicati ai nodi:



Versi positivi delle forze concentrate applicate ai nodi.



Versi positivi delle coppie concentrate applicate ai nodi.

Nel seguito vengono riportati per ogni nodo, su cui agiscono carichi concentrati, le componenti del carico (P_x , P_y , P_z , M_x , M_y , M_z) e la condizione di carico cui esse fanno riferimento.

Nodo	Cond.	P_x [kg]	P_y [kg]	P_z [kg]	M_x [kgm]	M_y [kgm]	M_z [kgm]
400	2	0.0	0.0	-332.3	0.0	0.0	0.0
	3	0.0	0.0	-55.4	0.0	0.0	0.0
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-132.9	0.0	0.0	0.0
500	2	0.0	0.0	-171.1	0.0	0.0	0.0
	3	0.0	0.0	-28.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-4.6	0.0	0.0	0.0
	5	0.0	0.0	-68.4	0.0	0.0	0.0
600	2	0.0	0.0	-313.9	0.0	0.0	0.0
	3	0.0	0.0	-52.3	0.0	0.0	0.0
	4	0.0	0.0	-8.4	0.0	0.0	0.0
	5	0.0	0.0	-125.6	0.0	0.0	0.0
700	2	0.0	0.0	-170.7	0.0	0.0	0.0
	3	0.0	0.0	-28.4	0.0	0.0	0.0
	4	0.0	0.0	-4.6	0.0	0.0	0.0
	5	0.0	0.0	-68.3	0.0	0.0	0.0
800	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
900	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
1000	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
1100	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
1200	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
1300	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
1400	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
1500	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
1600	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
1700	2	0.0	0.0	-198.9	0.0	0.0	0.0
	3	0.0	0.0	-33.2	0.0	0.0	0.0
	4	0.0	0.0	-5.3	0.0	0.0	0.0
	5	0.0	0.0	-79.6	0.0	0.0	0.0
1800	2	0.0	0.0	-159.1	0.0	0.0	0.0
	3	0.0	0.0	-26.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-4.2	0.0	0.0	0.0
	5	0.0	0.0	-63.6	0.0	0.0	0.0
1900	2	0.0	0.0	-233.3	0.0	0.0	0.0
	3	0.0	0.0	-38.9	0.0	0.0	0.0
	4	0.0	0.0	-6.2	0.0	0.0	0.0
	5	0.0	0.0	-93.3	0.0	0.0	0.0
2000	2	0.0	0.0	-279.3	0.0	0.0	0.0
	3	0.0	0.0	-46.5	0.0	0.0	0.0
	4	0.0	0.0	-7.4	0.0	0.0	0.0
	5	0.0	0.0	-111.7	0.0	0.0	0.0
2100	2	0.0	0.0	-332.3	0.0	0.0	0.0
	3	0.0	0.0	-55.4	0.0	0.0	0.0
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-132.9	0.0	0.0	0.0
2200	2	0.0	0.0	-332.3	0.0	0.0	0.0
	3	0.0	0.0	-55.4	0.0	0.0	0.0
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-132.9	0.0	0.0	0.0
2300	2	0.0	0.0	-319.6	0.0	0.0	0.0
	3	0.0	0.0	-53.3	0.0	0.0	0.0
	4	0.0	0.0	-8.5	0.0	0.0	0.0
	5	0.0	0.0	-127.8	0.0	0.0	0.0
2400	2	0.0	0.0	-313.9	0.0	0.0	0.0
	3	0.0	0.0	-52.3	0.0	0.0	0.0
	4	0.0	0.0	-8.4	0.0	0.0	0.0
	5	0.0	0.0	-125.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
2500	2	0.0	0.0	-171.1	0.0	0.0	0.0
	3	0.0	0.0	-28.5	0.0	0.0	0.0
	4	0.0	0.0	-4.6	0.0	0.0	0.0
	5	0.0	0.0	-68.4	0.0	0.0	0.0
2600	2	0.0	0.0	-319.6	0.0	0.0	0.0
	3	0.0	0.0	-53.3	0.0	0.0	0.0
	4	0.0	0.0	-8.5	0.0	0.0	0.0
	5	0.0	0.0	-127.8	0.0	0.0	0.0
2700	2	0.0	0.0	-332.3	0.0	0.0	0.0
	3	0.0	0.0	-55.4	0.0	0.0	0.0
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-132.9	0.0	0.0	0.0
2800	2	0.0	0.0	-332.3	0.0	0.0	0.0
	3	0.0	0.0	-55.4	0.0	0.0	0.0
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-132.9	0.0	0.0	0.0
2900	2	0.0	0.0	-279.3	0.0	0.0	0.0
	3	0.0	0.0	-46.5	0.0	0.0	0.0
	4	0.0	0.0	-7.4	0.0	0.0	0.0
	5	0.0	0.0	-111.7	0.0	0.0	0.0
3000	2	0.0	0.0	-233.3	0.0	0.0	0.0
	3	0.0	0.0	-38.9	0.0	0.0	0.0
	4	0.0	0.0	-6.2	0.0	0.0	0.0
	5	0.0	0.0	-93.3	0.0	0.0	0.0
3100	2	0.0	0.0	-159.1	0.0	0.0	0.0
	3	0.0	0.0	-26.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-4.2	0.0	0.0	0.0
	5	0.0	0.0	-63.6	0.0	0.0	0.0
3200	2	0.0	0.0	-198.9	0.0	0.0	0.0
	3	0.0	0.0	-33.2	0.0	0.0	0.0
	4	0.0	0.0	-5.3	0.0	0.0	0.0
	5	0.0	0.0	-79.6	0.0	0.0	0.0
3300	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
3400	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
3500	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
3600	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
3700	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3800	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
3804	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3805	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3806	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
3807	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
3808	2	0.0	0.0	-313.1	0.0	0.0	0.0
	3	0.0	0.0	-52.2	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.2	0.0	0.0	0.0
3809	2	0.0	0.0	-170.7	0.0	0.0	0.0
	3	0.0	0.0	-28.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-4.6	0.0	0.0	0.0
	5	0.0	0.0	-68.3	0.0	0.0	0.0
3810	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3811	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3812	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3813	2	0.0	0.0	-339.4	0.0	0.0	0.0
	3	0.0	0.0	-56.6	0.0	0.0	0.0
	4	0.0	0.0	-9.0	0.0	0.0	0.0
	5	0.0	0.0	-135.7	0.0	0.0	0.0
3814	2	0.0	0.0	-339.4	0.0	0.0	0.0
	3	0.0	0.0	-56.6	0.0	0.0	0.0
	4	0.0	0.0	-9.0	0.0	0.0	0.0
	5	0.0	0.0	-135.7	0.0	0.0	0.0
3815	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3816	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3817	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3818	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3819	2	0.0	0.0	-339.4	0.0	0.0	0.0
	3	0.0	0.0	-56.6	0.0	0.0	0.0
	4	0.0	0.0	-9.0	0.0	0.0	0.0
	5	0.0	0.0	-135.7	0.0	0.0	0.0
3820	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3821	2	0.0	0.0	-339.4	0.0	0.0	0.0
	3	0.0	0.0	-56.6	0.0	0.0	0.0
	4	0.0	0.0	-9.0	0.0	0.0	0.0
	5	0.0	0.0	-135.7	0.0	0.0	0.0
3822	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3823	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3824	2	0.0	0.0	-52.8	0.0	0.0	0.0
	3	0.0	0.0	-8.8	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-21.1	0.0	0.0	0.0
3825	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3826	2	0.0	0.0	-52.1	0.0	0.0	0.0
	3	0.0	0.0	-8.7	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-20.8	0.0	0.0	0.0
3827	2	0.0	0.0	-61.6	0.0	0.0	0.0
	3	0.0	0.0	-10.3	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-24.6	0.0	0.0	0.0
3828	2	0.0	0.0	-52.8	0.0	0.0	0.0
	3	0.0	0.0	-8.8	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-21.1	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3829	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0
3830	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
3831	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3832	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
3833	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
3834	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0
3835	2	0.0	0.0	-87.9	0.0	0.0	0.0
	3	0.0	0.0	-14.7	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-35.2	0.0	0.0	0.0
3836	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3837	2	0.0	0.0	-87.9	0.0	0.0	0.0
	3	0.0	0.0	-14.7	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-35.2	0.0	0.0	0.0
3838	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
3839	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0
3840	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3841	2	0.0	0.0	-144.6	0.0	0.0	0.0
	3	0.0	0.0	-24.1	0.0	0.0	0.0
	4	0.0	0.0	-3.9	0.0	0.0	0.0
	5	0.0	0.0	-57.8	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3842	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3843	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
3844	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0
3845	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3846	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3847	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0
3848	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
3849	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3850	2	0.0	0.0	-391.3	0.0	0.0	0.0
	3	0.0	0.0	-65.2	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.5	0.0	0.0	0.0
3851	2	0.0	0.0	-391.3	0.0	0.0	0.0
	3	0.0	0.0	-65.2	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.5	0.0	0.0	0.0
3852	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3853	2	0.0	0.0	-391.3	0.0	0.0	0.0
	3	0.0	0.0	-65.2	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.5	0.0	0.0	0.0
3854	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3855	2	0.0	0.0	-391.3	0.0	0.0	0.0
	3	0.0	0.0	-65.2	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.5	0.0	0.0	0.0
3856	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
3857	2	0.0	0.0	-391.3	0.0	0.0	0.0
	3	0.0	0.0	-65.2	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.5	0.0	0.0	0.0
3858	2	0.0	0.0	-233.3	0.0	0.0	0.0
	3	0.0	0.0	-38.9	0.0	0.0	0.0
	4	0.0	0.0	-6.2	0.0	0.0	0.0
	5	0.0	0.0	-93.3	0.0	0.0	0.0
3859	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0
3860	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3861	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3862	2	0.0	0.0	-339.4	0.0	0.0	0.0
	3	0.0	0.0	-56.6	0.0	0.0	0.0
	4	0.0	0.0	-9.0	0.0	0.0	0.0
	5	0.0	0.0	-135.7	0.0	0.0	0.0
3863	2	0.0	0.0	-339.4	0.0	0.0	0.0
	3	0.0	0.0	-56.6	0.0	0.0	0.0
	4	0.0	0.0	-9.0	0.0	0.0	0.0
	5	0.0	0.0	-135.7	0.0	0.0	0.0
3864	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3865	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
3866	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0
3867	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3868	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3869	2	0.0	0.0	-313.9	0.0	0.0	0.0
	3	0.0	0.0	-52.3	0.0	0.0	0.0
	4	0.0	0.0	-8.4	0.0	0.0	0.0
	5	0.0	0.0	-125.6	0.0	0.0	0.0
3870	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3871	2	0.0	0.0	-209.3	0.0	0.0	0.0
	3	0.0	0.0	-34.9	0.0	0.0	0.0
	4	0.0	0.0	-5.6	0.0	0.0	0.0
	5	0.0	0.0	-83.7	0.0	0.0	0.0
3872	2	0.0	0.0	-209.3	0.0	0.0	0.0
	3	0.0	0.0	-34.9	0.0	0.0	0.0
	4	0.0	0.0	-5.6	0.0	0.0	0.0
	5	0.0	0.0	-83.7	0.0	0.0	0.0
3873	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
3874	2	0.0	0.0	-75.9	0.0	0.0	0.0
	3	0.0	0.0	-12.7	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.4	0.0	0.0	0.0
3875	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3876	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3877	2	0.0	0.0	-339.4	0.0	0.0	0.0
	3	0.0	0.0	-56.6	0.0	0.0	0.0
	4	0.0	0.0	-9.0	0.0	0.0	0.0
	5	0.0	0.0	-135.7	0.0	0.0	0.0
3878	2	0.0	0.0	-339.4	0.0	0.0	0.0
	3	0.0	0.0	-56.6	0.0	0.0	0.0
	4	0.0	0.0	-9.0	0.0	0.0	0.0
	5	0.0	0.0	-135.7	0.0	0.0	0.0
3879	2	0.0	0.0	-87.3	0.0	0.0	0.0
	3	0.0	0.0	-14.6	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-34.9	0.0	0.0	0.0
3880	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3881	2	0.0	0.0	-96.8	0.0	0.0	0.0
	3	0.0	0.0	-16.1	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-38.7	0.0	0.0	0.0
3882	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
3883	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3884	2	0.0	0.0	-233.3	0.0	0.0	0.0
	3	0.0	0.0	-38.9	0.0	0.0	0.0
	4	0.0	0.0	-6.2	0.0	0.0	0.0
	5	0.0	0.0	-93.3	0.0	0.0	0.0
3885	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3886	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3887	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3888	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3889	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3890	2	0.0	0.0	-260.9	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
3891	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3892	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3893	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3894	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3895	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3896	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3897	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3898	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3899	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3900	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3901	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3902	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3903	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3904	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3905	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3906	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3907	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
3908	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3909	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3910	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3911	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
3912	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3913	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3914	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3915	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3916	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3917	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3918	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
3919	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3920	2	0.0	0.0	-84.7	0.0	0.0	0.0
	3	0.0	0.0	-14.1	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-33.9	0.0	0.0	0.0
3921	2	0.0	0.0	-75.1	0.0	0.0	0.0
	3	0.0	0.0	-12.5	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.0	0.0	0.0	0.0
3922	2	0.0	0.0	-82.2	0.0	0.0	0.0
	3	0.0	0.0	-13.7	0.0	0.0	0.0
	4	0.0	0.0	-2.2	0.0	0.0	0.0
	5	0.0	0.0	-32.9	0.0	0.0	0.0
3923	2	0.0	0.0	-75.1	0.0	0.0	0.0
	3	0.0	0.0	-12.5	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.0	0.0	0.0	0.0
3924	2	0.0	0.0	-51.5	0.0	0.0	0.0
	3	0.0	0.0	-8.6	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-20.6	0.0	0.0	0.0
3925	2	0.0	0.0	-52.8	0.0	0.0	0.0
	3	0.0	0.0	-8.8	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-21.1	0.0	0.0	0.0
3926	2	0.0	0.0	-65.6	0.0	0.0	0.0
	3	0.0	0.0	-10.9	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-1.8	0.0	0.0	0.0
	5	0.0	0.0	-26.3	0.0	0.0	0.0
3927	2	0.0	0.0	-65.6	0.0	0.0	0.0
	3	0.0	0.0	-10.9	0.0	0.0	0.0
	4	0.0	0.0	-1.8	0.0	0.0	0.0
	5	0.0	0.0	-26.3	0.0	0.0	0.0
3928	2	0.0	0.0	-39.9	0.0	0.0	0.0
	3	0.0	0.0	-6.6	0.0	0.0	0.0
	4	0.0	0.0	-1.1	0.0	0.0	0.0
	5	0.0	0.0	-16.0	0.0	0.0	0.0
3929	2	0.0	0.0	-39.9	0.0	0.0	0.0
	3	0.0	0.0	-6.6	0.0	0.0	0.0
	4	0.0	0.0	-1.1	0.0	0.0	0.0
	5	0.0	0.0	-16.0	0.0	0.0	0.0
3930	2	0.0	0.0	-317.2	0.0	0.0	0.0
	3	0.0	0.0	-52.9	0.0	0.0	0.0
	4	0.0	0.0	-8.5	0.0	0.0	0.0
	5	0.0	0.0	-126.9	0.0	0.0	0.0
3931	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3932	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3933	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3934	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3935	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3936	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3937	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3938	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3939	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3940	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3941	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3942	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3943	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3944	2	0.0	0.0	-356.3	0.0	0.0	0.0
	3	0.0	0.0	-59.4	0.0	0.0	0.0
	4	0.0	0.0	-9.5	0.0	0.0	0.0
	5	0.0	0.0	-142.5	0.0	0.0	0.0
3945	2	0.0	0.0	-356.3	0.0	0.0	0.0
	3	0.0	0.0	-59.4	0.0	0.0	0.0
	4	0.0	0.0	-9.5	0.0	0.0	0.0
	5	0.0	0.0	-142.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3946	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3947	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3948	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3949	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3950	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3951	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3952	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3953	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3954	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3955	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3956	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3957	2	0.0	0.0	-548.1	0.0	0.0	0.0
	3	0.0	0.0	-91.4	0.0	0.0	0.0
	4	0.0	0.0	-14.6	0.0	0.0	0.0
	5	0.0	0.0	-219.3	0.0	0.0	0.0
3958	2	0.0	0.0	-473.3	0.0	0.0	0.0
	3	0.0	0.0	-78.9	0.0	0.0	0.0
	4	0.0	0.0	-12.6	0.0	0.0	0.0
	5	0.0	0.0	-189.3	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3959	2	0.0	0.0	-298.0	0.0	0.0	0.0
	3	0.0	0.0	-49.7	0.0	0.0	0.0
	4	0.0	0.0	-7.9	0.0	0.0	0.0
	5	0.0	0.0	-119.2	0.0	0.0	0.0
3960	2	0.0	0.0	-471.2	0.0	0.0	0.0
	3	0.0	0.0	-78.5	0.0	0.0	0.0
	4	0.0	0.0	-12.6	0.0	0.0	0.0
	5	0.0	0.0	-188.5	0.0	0.0	0.0
3961	2	0.0	0.0	-464.9	0.0	0.0	0.0
	3	0.0	0.0	-77.5	0.0	0.0	0.0
	4	0.0	0.0	-12.4	0.0	0.0	0.0
	5	0.0	0.0	-186.0	0.0	0.0	0.0
3962	2	0.0	0.0	-464.9	0.0	0.0	0.0
	3	0.0	0.0	-77.5	0.0	0.0	0.0
	4	0.0	0.0	-12.4	0.0	0.0	0.0
	5	0.0	0.0	-186.0	0.0	0.0	0.0
3963	2	0.0	0.0	-464.9	0.0	0.0	0.0
	3	0.0	0.0	-77.5	0.0	0.0	0.0
	4	0.0	0.0	-12.4	0.0	0.0	0.0
	5	0.0	0.0	-186.0	0.0	0.0	0.0
3964	2	0.0	0.0	-440.9	0.0	0.0	0.0
	3	0.0	0.0	-73.5	0.0	0.0	0.0
	4	0.0	0.0	-11.8	0.0	0.0	0.0
	5	0.0	0.0	-176.4	0.0	0.0	0.0
3965	2	0.0	0.0	-358.0	0.0	0.0	0.0
	3	0.0	0.0	-59.7	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-9.5	0.0	0.0	0.0
	5	0.0	0.0	-143.2	0.0	0.0	0.0
3966	2	0.0	0.0	-299.1	0.0	0.0	0.0
	3	0.0	0.0	-49.8	0.0	0.0	0.0
	4	0.0	0.0	-8.0	0.0	0.0	0.0
	5	0.0	0.0	-119.6	0.0	0.0	0.0
3967	2	0.0	0.0	-203.9	0.0	0.0	0.0
	3	0.0	0.0	-34.0	0.0	0.0	0.0
	4	0.0	0.0	-5.4	0.0	0.0	0.0
	5	0.0	0.0	-81.6	0.0	0.0	0.0
3968	2	0.0	0.0	-203.9	0.0	0.0	0.0
	3	0.0	0.0	-34.0	0.0	0.0	0.0
	4	0.0	0.0	-5.4	0.0	0.0	0.0
	5	0.0	0.0	-81.6	0.0	0.0	0.0
3969	2	0.0	0.0	-299.1	0.0	0.0	0.0
	3	0.0	0.0	-49.8	0.0	0.0	0.0
	4	0.0	0.0	-8.0	0.0	0.0	0.0
	5	0.0	0.0	-119.6	0.0	0.0	0.0
3970	2	0.0	0.0	-358.0	0.0	0.0	0.0
	3	0.0	0.0	-59.7	0.0	0.0	0.0
	4	0.0	0.0	-9.5	0.0	0.0	0.0
	5	0.0	0.0	-143.2	0.0	0.0	0.0
3971	2	0.0	0.0	-425.9	0.0	0.0	0.0
	3	0.0	0.0	-71.0	0.0	0.0	0.0
	4	0.0	0.0	-11.4	0.0	0.0	0.0
	5	0.0	0.0	-170.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3972	2	0.0	0.0	-425.9	0.0	0.0	0.0
	3	0.0	0.0	-71.0	0.0	0.0	0.0
	4	0.0	0.0	-11.4	0.0	0.0	0.0
	5	0.0	0.0	-170.4	0.0	0.0	0.0
3973	2	0.0	0.0	-317.2	0.0	0.0	0.0
	3	0.0	0.0	-52.9	0.0	0.0	0.0
	4	0.0	0.0	-8.5	0.0	0.0	0.0
	5	0.0	0.0	-126.9	0.0	0.0	0.0
3974	2	0.0	0.0	-217.5	0.0	0.0	0.0
	3	0.0	0.0	-36.3	0.0	0.0	0.0
	4	0.0	0.0	-5.8	0.0	0.0	0.0
	5	0.0	0.0	-87.0	0.0	0.0	0.0
3975	2	0.0	0.0	-168.6	0.0	0.0	0.0
	3	0.0	0.0	-28.1	0.0	0.0	0.0
	4	0.0	0.0	-4.5	0.0	0.0	0.0
	5	0.0	0.0	-67.4	0.0	0.0	0.0
3976	2	0.0	0.0	-323.9	0.0	0.0	0.0
	3	0.0	0.0	-54.0	0.0	0.0	0.0
	4	0.0	0.0	-8.6	0.0	0.0	0.0
	5	0.0	0.0	-129.6	0.0	0.0	0.0
3977	2	0.0	0.0	-389.6	0.0	0.0	0.0
	3	0.0	0.0	-64.9	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-155.9	0.0	0.0	0.0
3978	2	0.0	0.0	-579.3	0.0	0.0	0.0
	3	0.0	0.0	-96.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-15.4	0.0	0.0	0.0
	5	0.0	0.0	-231.7	0.0	0.0	0.0
3979	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3980	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3981	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3982	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3983	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3984	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3985	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3986	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3987	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3988	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3989	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3990	2	0.0	0.0	-503.3	0.0	0.0	0.0
	3	0.0	0.0	-83.9	0.0	0.0	0.0
	4	0.0	0.0	-13.4	0.0	0.0	0.0
	5	0.0	0.0	-201.3	0.0	0.0	0.0
3991	2	0.0	0.0	-503.3	0.0	0.0	0.0
	3	0.0	0.0	-83.9	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-13.4	0.0	0.0	0.0
	5	0.0	0.0	-201.3	0.0	0.0	0.0
3992	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3993	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3994	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3995	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3996	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3997	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
3998	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
3999	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4000	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4001	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4002	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4003	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4004	2	0.0	0.0	-502.1	0.0	0.0	0.0
	3	0.0	0.0	-83.7	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-13.4	0.0	0.0	0.0
	5	0.0	0.0	-200.8	0.0	0.0	0.0
4005	2	0.0	0.0	-259.9	0.0	0.0	0.0
	3	0.0	0.0	-43.3	0.0	0.0	0.0
	4	0.0	0.0	-6.9	0.0	0.0	0.0
	5	0.0	0.0	-104.0	0.0	0.0	0.0
4006	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.7	0.0	0.0	0.0
4007	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.6	0.0	0.0	0.0
4008	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.6	0.0	0.0	0.0
4009	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.7	0.0	0.0	0.0
4010	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4011	2	0.0	0.0	-220.3	0.0	0.0	0.0
	3	0.0	0.0	-36.7	0.0	0.0	0.0
	4	0.0	0.0	-5.9	0.0	0.0	0.0
	5	0.0	0.0	-88.1	0.0	0.0	0.0
4012	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.8	0.0	0.0	0.0
4013	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.7	0.0	0.0	0.0
4014	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.8	0.0	0.0	0.0
4015	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.7	0.0	0.0	0.0
4016	2	0.0	0.0	-435.0	0.0	0.0	0.0
	3	0.0	0.0	-72.5	0.0	0.0	0.0
	4	0.0	0.0	-11.6	0.0	0.0	0.0
	5	0.0	0.0	-174.0	0.0	0.0	0.0
4017	2	0.0	0.0	-435.0	0.0	0.0	0.0
	3	0.0	0.0	-72.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-11.6	0.0	0.0	0.0
	5	0.0	0.0	-174.0	0.0	0.0	0.0
4018	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.7	0.0	0.0	0.0
4019	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.7	0.0	0.0	0.0
4020	2	0.0	0.0	-335.4	0.0	0.0	0.0
	3	0.0	0.0	-55.9	0.0	0.0	0.0
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-134.2	0.0	0.0	0.0
4021	2	0.0	0.0	-276.7	0.0	0.0	0.0
	3	0.0	0.0	-46.1	0.0	0.0	0.0
	4	0.0	0.0	-7.4	0.0	0.0	0.0
	5	0.0	0.0	-110.7	0.0	0.0	0.0
4022	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
4023	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4024	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
4025	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
4026	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
4027	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
4028	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
4029	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
4030	2	0.0	0.0	-261.0	0.0	0.0	0.0
	3	0.0	0.0	-43.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-7.0	0.0	0.0	0.0
	5	0.0	0.0	-104.4	0.0	0.0	0.0
4031	2	0.0	0.0	-254.1	0.0	0.0	0.0
	3	0.0	0.0	-42.4	0.0	0.0	0.0
	4	0.0	0.0	-6.8	0.0	0.0	0.0
	5	0.0	0.0	-101.6	0.0	0.0	0.0
4032	2	0.0	0.0	-107.4	0.0	0.0	0.0
	3	0.0	0.0	-17.9	0.0	0.0	0.0
	4	0.0	0.0	-2.9	0.0	0.0	0.0
	5	0.0	0.0	-43.0	0.0	0.0	0.0
4033	2	0.0	0.0	-94.3	0.0	0.0	0.0
	3	0.0	0.0	-15.7	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-37.7	0.0	0.0	0.0
4034	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.6	0.0	0.0	0.0
4035	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.7	0.0	0.0	0.0
4036	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4037	2	0.0	0.0	-424.1	0.0	0.0	0.0
	3	0.0	0.0	-70.7	0.0	0.0	0.0
	4	0.0	0.0	-11.3	0.0	0.0	0.0
	5	0.0	0.0	-169.7	0.0	0.0	0.0
4038	2	0.0	0.0	-53.4	0.0	0.0	0.0
	3	0.0	0.0	-8.9	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-21.3	0.0	0.0	0.0
4039	2	0.0	0.0	-30.7	0.0	0.0	0.0
	3	0.0	0.0	-5.1	0.0	0.0	0.0
	4	0.0	0.0	-0.8	0.0	0.0	0.0
	5	0.0	0.0	-12.3	0.0	0.0	0.0
4040	2	0.0	0.0	-31.4	0.0	0.0	0.0
	3	0.0	0.0	-5.2	0.0	0.0	0.0
	4	0.0	0.0	-0.8	0.0	0.0	0.0
	5	0.0	0.0	-12.6	0.0	0.0	0.0
4041	2	0.0	0.0	-79.3	0.0	0.0	0.0
	3	0.0	0.0	-13.2	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-31.7	0.0	0.0	0.0
4042	2	0.0	0.0	-44.9	0.0	0.0	0.0
	3	0.0	0.0	-7.5	0.0	0.0	0.0
	4	0.0	0.0	-1.2	0.0	0.0	0.0
	5	0.0	0.0	-17.9	0.0	0.0	0.0
4043	2	0.0	0.0	-75.8	0.0	0.0	0.0
	3	0.0	0.0	-12.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.3	0.0	0.0	0.0
4044	2	0.0	0.0	-31.9	0.0	0.0	0.0
	3	0.0	0.0	-5.3	0.0	0.0	0.0
	4	0.0	0.0	-0.9	0.0	0.0	0.0
	5	0.0	0.0	-12.8	0.0	0.0	0.0
4045	2	0.0	0.0	-79.3	0.0	0.0	0.0
	3	0.0	0.0	-13.2	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-31.7	0.0	0.0	0.0
4046	2	0.0	0.0	-84.5	0.0	0.0	0.0
	3	0.0	0.0	-14.1	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-33.8	0.0	0.0	0.0
4047	2	0.0	0.0	-51.1	0.0	0.0	0.0
	3	0.0	0.0	-8.5	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-20.4	0.0	0.0	0.0
4048	2	0.0	0.0	-31.9	0.0	0.0	0.0
	3	0.0	0.0	-5.3	0.0	0.0	0.0
	4	0.0	0.0	-0.9	0.0	0.0	0.0
	5	0.0	0.0	-12.8	0.0	0.0	0.0
4049	2	0.0	0.0	-79.3	0.0	0.0	0.0
	3	0.0	0.0	-13.2	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-31.7	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4050	2	0.0	0.0	-98.2	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.3	0.0	0.0	0.0
4051	2	0.0	0.0	-57.3	0.0	0.0	0.0
	3	0.0	0.0	-9.6	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.9	0.0	0.0	0.0
4052	2	0.0	0.0	-31.9	0.0	0.0	0.0
	3	0.0	0.0	-5.3	0.0	0.0	0.0
	4	0.0	0.0	-0.9	0.0	0.0	0.0
	5	0.0	0.0	-12.8	0.0	0.0	0.0
4053	2	0.0	0.0	-79.3	0.0	0.0	0.0
	3	0.0	0.0	-13.2	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-31.7	0.0	0.0	0.0
4054	2	0.0	0.0	-98.1	0.0	0.0	0.0
	3	0.0	0.0	-16.3	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.2	0.0	0.0	0.0
4055	2	0.0	0.0	-57.3	0.0	0.0	0.0
	3	0.0	0.0	-9.6	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.9	0.0	0.0	0.0
4056	2	0.0	0.0	-31.9	0.0	0.0	0.0
	3	0.0	0.0	-5.3	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-0.9	0.0	0.0	0.0
	5	0.0	0.0	-12.8	0.0	0.0	0.0
4057	2	0.0	0.0	-79.3	0.0	0.0	0.0
	3	0.0	0.0	-13.2	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-31.7	0.0	0.0	0.0
4058	2	0.0	0.0	-100.1	0.0	0.0	0.0
	3	0.0	0.0	-16.7	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.0	0.0	0.0	0.0
4059	2	0.0	0.0	-58.6	0.0	0.0	0.0
	3	0.0	0.0	-9.8	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-23.4	0.0	0.0	0.0
4060	2	0.0	0.0	-31.9	0.0	0.0	0.0
	3	0.0	0.0	-5.3	0.0	0.0	0.0
	4	0.0	0.0	-0.9	0.0	0.0	0.0
	5	0.0	0.0	-12.8	0.0	0.0	0.0
4061	2	0.0	0.0	-79.3	0.0	0.0	0.0
	3	0.0	0.0	-13.2	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-31.7	0.0	0.0	0.0
4062	2	0.0	0.0	-31.9	0.0	0.0	0.0
	3	0.0	0.0	-5.3	0.0	0.0	0.0
	4	0.0	0.0	-0.9	0.0	0.0	0.0
	5	0.0	0.0	-12.8	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4063	2	0.0	0.0	-79.3	0.0	0.0	0.0
	3	0.0	0.0	-13.2	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-31.7	0.0	0.0	0.0
4064	2	0.0	0.0	-102.0	0.0	0.0	0.0
	3	0.0	0.0	-17.0	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.8	0.0	0.0	0.0
4065	2	0.0	0.0	-59.8	0.0	0.0	0.0
	3	0.0	0.0	-10.0	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-23.9	0.0	0.0	0.0
4066	2	0.0	0.0	-379.8	0.0	0.0	0.0
	3	0.0	0.0	-63.3	0.0	0.0	0.0
	4	0.0	0.0	-10.1	0.0	0.0	0.0
	5	0.0	0.0	-151.9	0.0	0.0	0.0
4067	2	0.0	0.0	-723.0	0.0	0.0	0.0
	3	0.0	0.0	-120.5	0.0	0.0	0.0
	4	0.0	0.0	-19.3	0.0	0.0	0.0
	5	0.0	0.0	-289.2	0.0	0.0	0.0
4068	2	0.0	0.0	-101.8	0.0	0.0	0.0
	3	0.0	0.0	-17.0	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.7	0.0	0.0	0.0
4069	2	0.0	0.0	-59.9	0.0	0.0	0.0
	3	0.0	0.0	-10.0	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-24.0	0.0	0.0	0.0
4070	2	0.0	0.0	-99.6	0.0	0.0	0.0
	3	0.0	0.0	-16.6	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-39.8	0.0	0.0	0.0
4071	2	0.0	0.0	-58.8	0.0	0.0	0.0
	3	0.0	0.0	-9.8	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-23.5	0.0	0.0	0.0
4072	2	0.0	0.0	-97.3	0.0	0.0	0.0
	3	0.0	0.0	-16.2	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-38.9	0.0	0.0	0.0
4073	2	0.0	0.0	-57.8	0.0	0.0	0.0
	3	0.0	0.0	-9.6	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-23.1	0.0	0.0	0.0
4074	2	0.0	0.0	-97.1	0.0	0.0	0.0
	3	0.0	0.0	-16.2	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-38.9	0.0	0.0	0.0
4075	2	0.0	0.0	-58.0	0.0	0.0	0.0
	3	0.0	0.0	-9.7	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-23.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4076	2	0.0	0.0	-99.1	0.0	0.0	0.0
	3	0.0	0.0	-16.5	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.6	0.0	0.0	0.0
4077	2	0.0	0.0	-59.4	0.0	0.0	0.0
	3	0.0	0.0	-9.9	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-23.8	0.0	0.0	0.0
4078	2	0.0	0.0	-101.0	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.4	0.0	0.0	0.0
4079	2	0.0	0.0	-60.9	0.0	0.0	0.0
	3	0.0	0.0	-10.2	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-24.4	0.0	0.0	0.0
4080	2	0.0	0.0	-100.9	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
4081	2	0.0	0.0	-61.1	0.0	0.0	0.0
	3	0.0	0.0	-10.2	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-24.4	0.0	0.0	0.0
4082	2	0.0	0.0	-98.6	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.4	0.0	0.0	0.0
4083	2	0.0	0.0	-60.0	0.0	0.0	0.0
	3	0.0	0.0	-10.0	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-24.0	0.0	0.0	0.0
4084	2	0.0	0.0	-96.3	0.0	0.0	0.0
	3	0.0	0.0	-16.1	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-38.5	0.0	0.0	0.0
4085	2	0.0	0.0	-59.0	0.0	0.0	0.0
	3	0.0	0.0	-9.8	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-23.6	0.0	0.0	0.0
4086	2	0.0	0.0	-96.2	0.0	0.0	0.0
	3	0.0	0.0	-16.0	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-38.5	0.0	0.0	0.0
4087	2	0.0	0.0	-59.1	0.0	0.0	0.0
	3	0.0	0.0	-9.9	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-23.7	0.0	0.0	0.0
4088	2	0.0	0.0	-85.6	0.0	0.0	0.0
	3	0.0	0.0	-14.3	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-34.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4089	2	0.0	0.0	-50.9	0.0	0.0	0.0
	3	0.0	0.0	-8.5	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-20.4	0.0	0.0	0.0
4090	2	0.0	0.0	-42.7	0.0	0.0	0.0
	3	0.0	0.0	-7.1	0.0	0.0	0.0
	4	0.0	0.0	-1.1	0.0	0.0	0.0
	5	0.0	0.0	-17.1	0.0	0.0	0.0
4091	2	0.0	0.0	-75.1	0.0	0.0	0.0
	3	0.0	0.0	-12.5	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.0	0.0	0.0	0.0
4092	2	0.0	0.0	-25.3	0.0	0.0	0.0
	3	0.0	0.0	-4.2	0.0	0.0	0.0
	4	0.0	0.0	-0.7	0.0	0.0	0.0
	5	0.0	0.0	-10.1	0.0	0.0	0.0
4093	2	0.0	0.0	-51.2	0.0	0.0	0.0
	3	0.0	0.0	-8.5	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-20.5	0.0	0.0	0.0
4094	2	0.0	0.0	-10.9	0.0	0.0	0.0
	3	0.0	0.0	-1.8	0.0	0.0	0.0
	4	0.0	0.0	-0.3	0.0	0.0	0.0
	5	0.0	0.0	-4.4	0.0	0.0	0.0
4095	2	0.0	0.0	-503.3	0.0	0.0	0.0
	3	0.0	0.0	-83.9	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-13.4	0.0	0.0	0.0
	5	0.0	0.0	-201.3	0.0	0.0	0.0
4096	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4097	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4098	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4099	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4100	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4101	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4102	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4103	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4104	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4105	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4106	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4107	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4108	2	0.0	0.0	-501.3	0.0	0.0	0.0
	3	0.0	0.0	-83.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-13.4	0.0	0.0	0.0
	5	0.0	0.0	-200.5	0.0	0.0	0.0
4109	2	0.0	0.0	-312.7	0.0	0.0	0.0
	3	0.0	0.0	-52.1	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-125.1	0.0	0.0	0.0
4110	2	0.0	0.0	-323.9	0.0	0.0	0.0
	3	0.0	0.0	-54.0	0.0	0.0	0.0
	4	0.0	0.0	-8.6	0.0	0.0	0.0
	5	0.0	0.0	-129.6	0.0	0.0	0.0
4111	2	0.0	0.0	-440.8	0.0	0.0	0.0
	3	0.0	0.0	-73.5	0.0	0.0	0.0
	4	0.0	0.0	-11.8	0.0	0.0	0.0
	5	0.0	0.0	-176.3	0.0	0.0	0.0
4112	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4113	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4114	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4115	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4116	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4117	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4118	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4119	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4120	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4121	2	0.0	0.0	-1119.0	0.0	0.0	0.0
	3	0.0	0.0	-186.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-29.8	0.0	0.0	0.0
	5	0.0	0.0	-447.6	0.0	0.0	0.0
4122	2	0.0	0.0	-481.0	0.0	0.0	0.0
	3	0.0	0.0	-80.2	0.0	0.0	0.0
	4	0.0	0.0	-12.8	0.0	0.0	0.0
	5	0.0	0.0	-192.4	0.0	0.0	0.0
4123	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4124	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4125	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4126	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4127	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4128	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4129	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4130	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4131	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4132	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4133	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4134	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4135	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4136	2	0.0	0.0	-515.5	0.0	0.0	0.0
	3	0.0	0.0	-85.9	0.0	0.0	0.0
	4	0.0	0.0	-13.7	0.0	0.0	0.0
	5	0.0	0.0	-206.2	0.0	0.0	0.0
4137	2	0.0	0.0	-554.7	0.0	0.0	0.0
	3	0.0	0.0	-92.4	0.0	0.0	0.0
	4	0.0	0.0	-14.8	0.0	0.0	0.0
	5	0.0	0.0	-221.9	0.0	0.0	0.0
4138	2	0.0	0.0	-165.4	0.0	0.0	0.0
	3	0.0	0.0	-27.6	0.0	0.0	0.0
	4	0.0	0.0	-4.4	0.0	0.0	0.0
	5	0.0	0.0	-66.2	0.0	0.0	0.0
4139	2	0.0	0.0	-241.9	0.0	0.0	0.0
	3	0.0	0.0	-40.3	0.0	0.0	0.0
	4	0.0	0.0	-6.4	0.0	0.0	0.0
	5	0.0	0.0	-96.7	0.0	0.0	0.0
4140	2	0.0	0.0	-194.8	0.0	0.0	0.0
	3	0.0	0.0	-32.5	0.0	0.0	0.0
	4	0.0	0.0	-5.2	0.0	0.0	0.0
	5	0.0	0.0	-77.9	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4141	2	0.0	0.0	-362.1	0.0	0.0	0.0
	3	0.0	0.0	-60.4	0.0	0.0	0.0
	4	0.0	0.0	-9.7	0.0	0.0	0.0
	5	0.0	0.0	-144.9	0.0	0.0	0.0
4142	2	0.0	0.0	-368.7	0.0	0.0	0.0
	3	0.0	0.0	-61.4	0.0	0.0	0.0
	4	0.0	0.0	-9.8	0.0	0.0	0.0
	5	0.0	0.0	-147.5	0.0	0.0	0.0
4143	2	0.0	0.0	-383.3	0.0	0.0	0.0
	3	0.0	0.0	-63.9	0.0	0.0	0.0
	4	0.0	0.0	-10.2	0.0	0.0	0.0
	5	0.0	0.0	-153.3	0.0	0.0	0.0
4144	2	0.0	0.0	-383.3	0.0	0.0	0.0
	3	0.0	0.0	-63.9	0.0	0.0	0.0
	4	0.0	0.0	-10.2	0.0	0.0	0.0
	5	0.0	0.0	-153.3	0.0	0.0	0.0
4145	2	0.0	0.0	-322.2	0.0	0.0	0.0
	3	0.0	0.0	-53.7	0.0	0.0	0.0
	4	0.0	0.0	-8.6	0.0	0.0	0.0
	5	0.0	0.0	-128.9	0.0	0.0	0.0
4146	2	0.0	0.0	-269.2	0.0	0.0	0.0
	3	0.0	0.0	-44.9	0.0	0.0	0.0
	4	0.0	0.0	-7.2	0.0	0.0	0.0
	5	0.0	0.0	-107.7	0.0	0.0	0.0
4147	2	0.0	0.0	-183.5	0.0	0.0	0.0
	3	0.0	0.0	-30.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-4.9	0.0	0.0	0.0
	5	0.0	0.0	-73.4	0.0	0.0	0.0
4148	2	0.0	0.0	-183.5	0.0	0.0	0.0
	3	0.0	0.0	-30.6	0.0	0.0	0.0
	4	0.0	0.0	-4.9	0.0	0.0	0.0
	5	0.0	0.0	-73.4	0.0	0.0	0.0
4149	2	0.0	0.0	-269.2	0.0	0.0	0.0
	3	0.0	0.0	-44.9	0.0	0.0	0.0
	4	0.0	0.0	-7.2	0.0	0.0	0.0
	5	0.0	0.0	-107.7	0.0	0.0	0.0
4150	2	0.0	0.0	-322.2	0.0	0.0	0.0
	3	0.0	0.0	-53.7	0.0	0.0	0.0
	4	0.0	0.0	-8.6	0.0	0.0	0.0
	5	0.0	0.0	-128.9	0.0	0.0	0.0
4151	2	0.0	0.0	-329.1	0.0	0.0	0.0
	3	0.0	0.0	-54.9	0.0	0.0	0.0
	4	0.0	0.0	-8.8	0.0	0.0	0.0
	5	0.0	0.0	-131.6	0.0	0.0	0.0
4152	2	0.0	0.0	-283.0	0.0	0.0	0.0
	3	0.0	0.0	-47.2	0.0	0.0	0.0
	4	0.0	0.0	-7.5	0.0	0.0	0.0
	5	0.0	0.0	-113.2	0.0	0.0	0.0
4153	2	0.0	0.0	-283.0	0.0	0.0	0.0
	3	0.0	0.0	-47.2	0.0	0.0	0.0
	4	0.0	0.0	-7.5	0.0	0.0	0.0
	5	0.0	0.0	-113.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4154	2	0.0	0.0	-283.0	0.0	0.0	0.0
	3	0.0	0.0	-47.2	0.0	0.0	0.0
	4	0.0	0.0	-7.5	0.0	0.0	0.0
	5	0.0	0.0	-113.2	0.0	0.0	0.0
4155	2	0.0	0.0	-377.7	0.0	0.0	0.0
	3	0.0	0.0	-63.0	0.0	0.0	0.0
	4	0.0	0.0	-10.1	0.0	0.0	0.0
	5	0.0	0.0	-151.1	0.0	0.0	0.0
4156	2	0.0	0.0	-389.6	0.0	0.0	0.0
	3	0.0	0.0	-64.9	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-155.9	0.0	0.0	0.0
4157	2	0.0	0.0	-579.3	0.0	0.0	0.0
	3	0.0	0.0	-96.6	0.0	0.0	0.0
	4	0.0	0.0	-15.4	0.0	0.0	0.0
	5	0.0	0.0	-231.7	0.0	0.0	0.0
4158	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4159	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4160	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4161	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4162	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4163	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4164	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4165	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4166	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4167	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4168	2	0.0	0.0	-580.8	0.0	0.0	0.0
	3	0.0	0.0	-96.8	0.0	0.0	0.0
	4	0.0	0.0	-15.5	0.0	0.0	0.0
	5	0.0	0.0	-232.3	0.0	0.0	0.0
4169	2	0.0	0.0	-503.3	0.0	0.0	0.0
	3	0.0	0.0	-83.9	0.0	0.0	0.0
	4	0.0	0.0	-13.4	0.0	0.0	0.0
	5	0.0	0.0	-201.3	0.0	0.0	0.0
4170	2	0.0	0.0	-168.6	0.0	0.0	0.0
	3	0.0	0.0	-28.1	0.0	0.0	0.0
	4	0.0	0.0	-4.5	0.0	0.0	0.0
	5	0.0	0.0	-67.4	0.0	0.0	0.0
4171	2	0.0	0.0	-217.5	0.0	0.0	0.0
	3	0.0	0.0	-36.3	0.0	0.0	0.0
	4	0.0	0.0	-5.8	0.0	0.0	0.0
	5	0.0	0.0	-87.0	0.0	0.0	0.0
4172	2	0.0	0.0	-317.2	0.0	0.0	0.0
	3	0.0	0.0	-52.9	0.0	0.0	0.0
	4	0.0	0.0	-8.5	0.0	0.0	0.0
	5	0.0	0.0	-126.9	0.0	0.0	0.0
4173	2	0.0	0.0	-425.9	0.0	0.0	0.0
	3	0.0	0.0	-71.0	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-11.4	0.0	0.0	0.0
	5	0.0	0.0	-170.4	0.0	0.0	0.0
4174	2	0.0	0.0	-425.9	0.0	0.0	0.0
	3	0.0	0.0	-71.0	0.0	0.0	0.0
	4	0.0	0.0	-11.4	0.0	0.0	0.0
	5	0.0	0.0	-170.4	0.0	0.0	0.0
4175	2	0.0	0.0	-358.0	0.0	0.0	0.0
	3	0.0	0.0	-59.7	0.0	0.0	0.0
	4	0.0	0.0	-9.5	0.0	0.0	0.0
	5	0.0	0.0	-143.2	0.0	0.0	0.0
4176	2	0.0	0.0	-299.1	0.0	0.0	0.0
	3	0.0	0.0	-49.8	0.0	0.0	0.0
	4	0.0	0.0	-8.0	0.0	0.0	0.0
	5	0.0	0.0	-119.6	0.0	0.0	0.0
4177	2	0.0	0.0	-203.9	0.0	0.0	0.0
	3	0.0	0.0	-34.0	0.0	0.0	0.0
	4	0.0	0.0	-5.4	0.0	0.0	0.0
	5	0.0	0.0	-81.6	0.0	0.0	0.0
4178	2	0.0	0.0	-203.9	0.0	0.0	0.0
	3	0.0	0.0	-34.0	0.0	0.0	0.0
	4	0.0	0.0	-5.4	0.0	0.0	0.0
	5	0.0	0.0	-81.6	0.0	0.0	0.0
4179	2	0.0	0.0	-299.1	0.0	0.0	0.0
	3	0.0	0.0	-49.8	0.0	0.0	0.0
	4	0.0	0.0	-8.0	0.0	0.0	0.0
	5	0.0	0.0	-119.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4180	2	0.0	0.0	-358.0	0.0	0.0	0.0
	3	0.0	0.0	-59.7	0.0	0.0	0.0
	4	0.0	0.0	-9.5	0.0	0.0	0.0
	5	0.0	0.0	-143.2	0.0	0.0	0.0
4181	2	0.0	0.0	-363.4	0.0	0.0	0.0
	3	0.0	0.0	-60.6	0.0	0.0	0.0
	4	0.0	0.0	-9.7	0.0	0.0	0.0
	5	0.0	0.0	-145.4	0.0	0.0	0.0
4182	2	0.0	0.0	-309.9	0.0	0.0	0.0
	3	0.0	0.0	-51.7	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-124.0	0.0	0.0	0.0
4183	2	0.0	0.0	-309.9	0.0	0.0	0.0
	3	0.0	0.0	-51.7	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-124.0	0.0	0.0	0.0
4184	2	0.0	0.0	-309.9	0.0	0.0	0.0
	3	0.0	0.0	-51.7	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-124.0	0.0	0.0	0.0
4185	2	0.0	0.0	-622.9	0.0	0.0	0.0
	3	0.0	0.0	-103.8	0.0	0.0	0.0
	4	0.0	0.0	-16.6	0.0	0.0	0.0
	5	0.0	0.0	-249.2	0.0	0.0	0.0
4186	2	0.0	0.0	-254.6	0.0	0.0	0.0
	3	0.0	0.0	-42.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-6.8	0.0	0.0	0.0
	5	0.0	0.0	-101.8	0.0	0.0	0.0
4187	2	0.0	0.0	-375.2	0.0	0.0	0.0
	3	0.0	0.0	-62.5	0.0	0.0	0.0
	4	0.0	0.0	-10.0	0.0	0.0	0.0
	5	0.0	0.0	-150.1	0.0	0.0	0.0
4188	2	0.0	0.0	-375.2	0.0	0.0	0.0
	3	0.0	0.0	-62.5	0.0	0.0	0.0
	4	0.0	0.0	-10.0	0.0	0.0	0.0
	5	0.0	0.0	-150.1	0.0	0.0	0.0
4189	2	0.0	0.0	-391.5	0.0	0.0	0.0
	3	0.0	0.0	-65.3	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.6	0.0	0.0	0.0
4190	2	0.0	0.0	-391.5	0.0	0.0	0.0
	3	0.0	0.0	-65.2	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.6	0.0	0.0	0.0
4191	2	0.0	0.0	-375.2	0.0	0.0	0.0
	3	0.0	0.0	-62.5	0.0	0.0	0.0
	4	0.0	0.0	-10.0	0.0	0.0	0.0
	5	0.0	0.0	-150.1	0.0	0.0	0.0
4192	2	0.0	0.0	-375.2	0.0	0.0	0.0
	3	0.0	0.0	-62.5	0.0	0.0	0.0
	4	0.0	0.0	-10.0	0.0	0.0	0.0
	5	0.0	0.0	-150.1	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4193	2	0.0	0.0	-375.2	0.0	0.0	0.0
	3	0.0	0.0	-62.5	0.0	0.0	0.0
	4	0.0	0.0	-10.0	0.0	0.0	0.0
	5	0.0	0.0	-150.1	0.0	0.0	0.0
4194	2	0.0	0.0	-375.2	0.0	0.0	0.0
	3	0.0	0.0	-62.5	0.0	0.0	0.0
	4	0.0	0.0	-10.0	0.0	0.0	0.0
	5	0.0	0.0	-150.1	0.0	0.0	0.0
4195	2	0.0	0.0	-283.0	0.0	0.0	0.0
	3	0.0	0.0	-47.2	0.0	0.0	0.0
	4	0.0	0.0	-7.5	0.0	0.0	0.0
	5	0.0	0.0	-113.2	0.0	0.0	0.0
4196	2	0.0	0.0	-283.0	0.0	0.0	0.0
	3	0.0	0.0	-47.2	0.0	0.0	0.0
	4	0.0	0.0	-7.5	0.0	0.0	0.0
	5	0.0	0.0	-113.2	0.0	0.0	0.0
4197	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.7	0.0	0.0	0.0
4198	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.8	0.0	0.0	0.0
4199	2	0.0	0.0	-435.0	0.0	0.0	0.0
	3	0.0	0.0	-72.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-11.6	0.0	0.0	0.0
	5	0.0	0.0	-174.0	0.0	0.0	0.0
4200	2	0.0	0.0	-435.0	0.0	0.0	0.0
	3	0.0	0.0	-72.5	0.0	0.0	0.0
	4	0.0	0.0	-11.6	0.0	0.0	0.0
	5	0.0	0.0	-174.0	0.0	0.0	0.0
4201	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.7	0.0	0.0	0.0
4202	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.8	0.0	0.0	0.0
4203	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.8	0.0	0.0	0.0
4204	2	0.0	0.0	-416.9	0.0	0.0	0.0
	3	0.0	0.0	-69.5	0.0	0.0	0.0
	4	0.0	0.0	-11.1	0.0	0.0	0.0
	5	0.0	0.0	-166.8	0.0	0.0	0.0
4205	2	0.0	0.0	-309.9	0.0	0.0	0.0
	3	0.0	0.0	-51.7	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-124.0	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4206	2	0.0	0.0	-309.9	0.0	0.0	0.0
	3	0.0	0.0	-51.7	0.0	0.0	0.0
	4	0.0	0.0	-8.3	0.0	0.0	0.0
	5	0.0	0.0	-124.0	0.0	0.0	0.0
4207	2	0.0	0.0	-39.9	0.0	0.0	0.0
	3	0.0	0.0	-6.6	0.0	0.0	0.0
	4	0.0	0.0	-1.1	0.0	0.0	0.0
	5	0.0	0.0	-16.0	0.0	0.0	0.0
4208	2	0.0	0.0	-39.9	0.0	0.0	0.0
	3	0.0	0.0	-6.6	0.0	0.0	0.0
	4	0.0	0.0	-1.1	0.0	0.0	0.0
	5	0.0	0.0	-16.0	0.0	0.0	0.0
4209	2	0.0	0.0	-65.6	0.0	0.0	0.0
	3	0.0	0.0	-10.9	0.0	0.0	0.0
	4	0.0	0.0	-1.8	0.0	0.0	0.0
	5	0.0	0.0	-26.3	0.0	0.0	0.0
4210	2	0.0	0.0	-65.6	0.0	0.0	0.0
	3	0.0	0.0	-10.9	0.0	0.0	0.0
	4	0.0	0.0	-1.8	0.0	0.0	0.0
	5	0.0	0.0	-26.3	0.0	0.0	0.0
4211	2	0.0	0.0	-51.5	0.0	0.0	0.0
	3	0.0	0.0	-8.6	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-20.6	0.0	0.0	0.0
4212	2	0.0	0.0	-51.5	0.0	0.0	0.0
	3	0.0	0.0	-8.6	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-20.6	0.0	0.0	0.0
4213	2	0.0	0.0	-75.1	0.0	0.0	0.0
	3	0.0	0.0	-12.5	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.0	0.0	0.0	0.0
4214	2	0.0	0.0	-82.2	0.0	0.0	0.0
	3	0.0	0.0	-13.7	0.0	0.0	0.0
	4	0.0	0.0	-2.2	0.0	0.0	0.0
	5	0.0	0.0	-32.9	0.0	0.0	0.0
4215	2	0.0	0.0	-75.1	0.0	0.0	0.0
	3	0.0	0.0	-12.5	0.0	0.0	0.0
	4	0.0	0.0	-2.0	0.0	0.0	0.0
	5	0.0	0.0	-30.0	0.0	0.0	0.0
4216	2	0.0	0.0	-87.9	0.0	0.0	0.0
	3	0.0	0.0	-14.7	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-35.2	0.0	0.0	0.0
4217	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4218	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4219	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4220	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4221	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4222	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4223	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4224	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4225	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
4226	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
4227	2	0.0	0.0	-106.2	0.0	0.0	0.0
	3	0.0	0.0	-17.7	0.0	0.0	0.0
	4	0.0	0.0	-2.8	0.0	0.0	0.0
	5	0.0	0.0	-42.5	0.0	0.0	0.0
4228	2	0.0	0.0	-87.9	0.0	0.0	0.0
	3	0.0	0.0	-14.7	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-35.2	0.0	0.0	0.0
4229	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
4230	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
4231	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4232	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4233	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
4234	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
4235	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
4236	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4237	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
4238	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
4239	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
4240	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
4241	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4242	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
4243	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4244	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4245	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4246	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
4247	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4248	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4249	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
4250	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4251	2	0.0	0.0	-96.8	0.0	0.0	0.0
	3	0.0	0.0	-16.1	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-38.7	0.0	0.0	0.0
4252	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
4253	2	0.0	0.0	-87.9	0.0	0.0	0.0
	3	0.0	0.0	-14.7	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-35.2	0.0	0.0	0.0
4254	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4255	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
4256	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
4257	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4258	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
4259	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4260	2	0.0	0.0	-103.0	0.0	0.0	0.0
	3	0.0	0.0	-17.2	0.0	0.0	0.0
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-41.2	0.0	0.0	0.0
4261	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4262	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
4263	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4264	2	0.0	0.0	-100.8	0.0	0.0	0.0
	3	0.0	0.0	-16.8	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-2.7	0.0	0.0	0.0
	5	0.0	0.0	-40.3	0.0	0.0	0.0
4265	2	0.0	0.0	-77.5	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-31.0	0.0	0.0	0.0
4266	2	0.0	0.0	-56.3	0.0	0.0	0.0
	3	0.0	0.0	-9.4	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.5	0.0	0.0	0.0
4267	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
4268	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4269	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4270	2	0.0	0.0	-56.3	0.0	0.0	0.0
	3	0.0	0.0	-9.4	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4271	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
4272	2	0.0	0.0	-56.3	0.0	0.0	0.0
	3	0.0	0.0	-9.4	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.5	0.0	0.0	0.0
4273	2	0.0	0.0	-98.7	0.0	0.0	0.0
	3	0.0	0.0	-16.4	0.0	0.0	0.0
	4	0.0	0.0	-2.6	0.0	0.0	0.0
	5	0.0	0.0	-39.5	0.0	0.0	0.0
4274	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4275	2	0.0	0.0	-56.3	0.0	0.0	0.0
	3	0.0	0.0	-9.4	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.5	0.0	0.0	0.0
4276	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
4277	2	0.0	0.0	-56.3	0.0	0.0	0.0
	3	0.0	0.0	-9.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.5	0.0	0.0	0.0
4278	2	0.0	0.0	-87.9	0.0	0.0	0.0
	3	0.0	0.0	-14.7	0.0	0.0	0.0
	4	0.0	0.0	-2.3	0.0	0.0	0.0
	5	0.0	0.0	-35.2	0.0	0.0	0.0
4279	2	0.0	0.0	-113.7	0.0	0.0	0.0
	3	0.0	0.0	-18.9	0.0	0.0	0.0
	4	0.0	0.0	-3.0	0.0	0.0	0.0
	5	0.0	0.0	-45.5	0.0	0.0	0.0
4280	2	0.0	0.0	-56.3	0.0	0.0	0.0
	3	0.0	0.0	-9.4	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.5	0.0	0.0	0.0
4281	2	0.0	0.0	-94.9	0.0	0.0	0.0
	3	0.0	0.0	-15.8	0.0	0.0	0.0
	4	0.0	0.0	-2.5	0.0	0.0	0.0
	5	0.0	0.0	-38.0	0.0	0.0	0.0
4282	2	0.0	0.0	-77.2	0.0	0.0	0.0
	3	0.0	0.0	-12.9	0.0	0.0	0.0
	4	0.0	0.0	-2.1	0.0	0.0	0.0
	5	0.0	0.0	-30.9	0.0	0.0	0.0
4283	2	0.0	0.0	-56.3	0.0	0.0	0.0
	3	0.0	0.0	-9.4	0.0	0.0	0.0
	4	0.0	0.0	-1.5	0.0	0.0	0.0
	5	0.0	0.0	-22.5	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4284	2	0.0	0.0	-61.6	0.0	0.0	0.0
	3	0.0	0.0	-10.3	0.0	0.0	0.0
	4	0.0	0.0	-1.6	0.0	0.0	0.0
	5	0.0	0.0	-24.6	0.0	0.0	0.0
4285	2	0.0	0.0	-52.8	0.0	0.0	0.0
	3	0.0	0.0	-8.8	0.0	0.0	0.0
	4	0.0	0.0	-1.4	0.0	0.0	0.0
	5	0.0	0.0	-21.1	0.0	0.0	0.0
4286	2	0.0	0.0	-71.0	0.0	0.0	0.0
	3	0.0	0.0	-11.8	0.0	0.0	0.0
	4	0.0	0.0	-1.9	0.0	0.0	0.0
	5	0.0	0.0	-28.4	0.0	0.0	0.0
4287	2	0.0	0.0	-42.3	0.0	0.0	0.0
	3	0.0	0.0	-7.1	0.0	0.0	0.0
	4	0.0	0.0	-1.1	0.0	0.0	0.0
	5	0.0	0.0	-16.9	0.0	0.0	0.0
4288	2	0.0	0.0	-209.8	0.0	0.0	0.0
	3	0.0	0.0	-35.0	0.0	0.0	0.0
	4	0.0	0.0	-5.6	0.0	0.0	0.0
	5	0.0	0.0	-83.9	0.0	0.0	0.0
4289	2	0.0	0.0	-391.3	0.0	0.0	0.0
	3	0.0	0.0	-65.2	0.0	0.0	0.0
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.5	0.0	0.0	0.0
4290	2	0.0	0.0	-391.3	0.0	0.0	0.0
	3	0.0	0.0	-65.2	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-10.4	0.0	0.0	0.0
	5	0.0	0.0	-156.5	0.0	0.0	0.0
4291	2	0.0	0.0	-238.1	0.0	0.0	0.0
	3	0.0	0.0	-39.7	0.0	0.0	0.0
	4	0.0	0.0	-6.3	0.0	0.0	0.0
	5	0.0	0.0	-95.2	0.0	0.0	0.0
4292	2	0.0	0.0	-159.1	0.0	0.0	0.0
	3	0.0	0.0	-26.5	0.0	0.0	0.0
	4	0.0	0.0	-4.2	0.0	0.0	0.0
	5	0.0	0.0	-63.6	0.0	0.0	0.0
4293	2	0.0	0.0	-279.3	0.0	0.0	0.0
	3	0.0	0.0	-46.5	0.0	0.0	0.0
	4	0.0	0.0	-7.4	0.0	0.0	0.0
	5	0.0	0.0	-111.7	0.0	0.0	0.0
4294	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
4295	2	0.0	0.0	-332.3	0.0	0.0	0.0
	3	0.0	0.0	-55.4	0.0	0.0	0.0
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-132.9	0.0	0.0	0.0
4296	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
4297	2	0.0	0.0	-319.6	0.0	0.0	0.0
	3	0.0	0.0	-53.3	0.0	0.0	0.0
	4	0.0	0.0	-8.5	0.0	0.0	0.0
	5	0.0	0.0	-127.8	0.0	0.0	0.0
4298	2	0.0	0.0	-171.1	0.0	0.0	0.0
	3	0.0	0.0	-28.5	0.0	0.0	0.0
	4	0.0	0.0	-4.6	0.0	0.0	0.0
	5	0.0	0.0	-68.4	0.0	0.0	0.0
4299	2	0.0	0.0	-118.8	0.0	0.0	0.0
	3	0.0	0.0	-19.8	0.0	0.0	0.0
	4	0.0	0.0	-3.2	0.0	0.0	0.0
	5	0.0	0.0	-47.5	0.0	0.0	0.0
4300	2	0.0	0.0	-267.2	0.0	0.0	0.0
	3	0.0	0.0	-44.5	0.0	0.0	0.0
	4	0.0	0.0	-7.1	0.0	0.0	0.0
	5	0.0	0.0	-106.9	0.0	0.0	0.0
4301	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
4302	2	0.0	0.0	-332.3	0.0	0.0	0.0
	3	0.0	0.0	-55.4	0.0	0.0	0.0
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-132.9	0.0	0.0	0.0
4303	2	0.0	0.0	-332.3	0.0	0.0	0.0
	3	0.0	0.0	-55.4	0.0	0.0	0.0

Nodo	Cond.	Px [kg]	Py [kg]	Pz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
	4	0.0	0.0	-8.9	0.0	0.0	0.0
	5	0.0	0.0	-132.9	0.0	0.0	0.0
4304	2	0.0	0.0	-325.2	0.0	0.0	0.0
	3	0.0	0.0	-54.2	0.0	0.0	0.0
	4	0.0	0.0	-8.7	0.0	0.0	0.0
	5	0.0	0.0	-130.1	0.0	0.0	0.0
4305	2	0.0	0.0	-279.3	0.0	0.0	0.0
	3	0.0	0.0	-46.5	0.0	0.0	0.0
	4	0.0	0.0	-7.4	0.0	0.0	0.0
	5	0.0	0.0	-111.7	0.0	0.0	0.0
4306	2	0.0	0.0	-159.1	0.0	0.0	0.0
	3	0.0	0.0	-26.5	0.0	0.0	0.0
	4	0.0	0.0	-4.2	0.0	0.0	0.0
	5	0.0	0.0	-63.6	0.0	0.0	0.0
4307	2	0.0	0.0	-172.9	0.0	0.0	0.0
	3	0.0	0.0	-28.8	0.0	0.0	0.0
	4	0.0	0.0	-4.6	0.0	0.0	0.0
	5	0.0	0.0	-69.1	0.0	0.0	0.0

Analisi dinamica

Convenzioni adottate

Nella presente versione del programma **WinStrand** l'analisi in campo dinamico della struttura può essere condotta per via *statica equivalente* ovvero per via *modale* facendo uso, per il calcolo della risposta, dello spettro di pseudo accelerazioni fornito dal regolamento italiano.

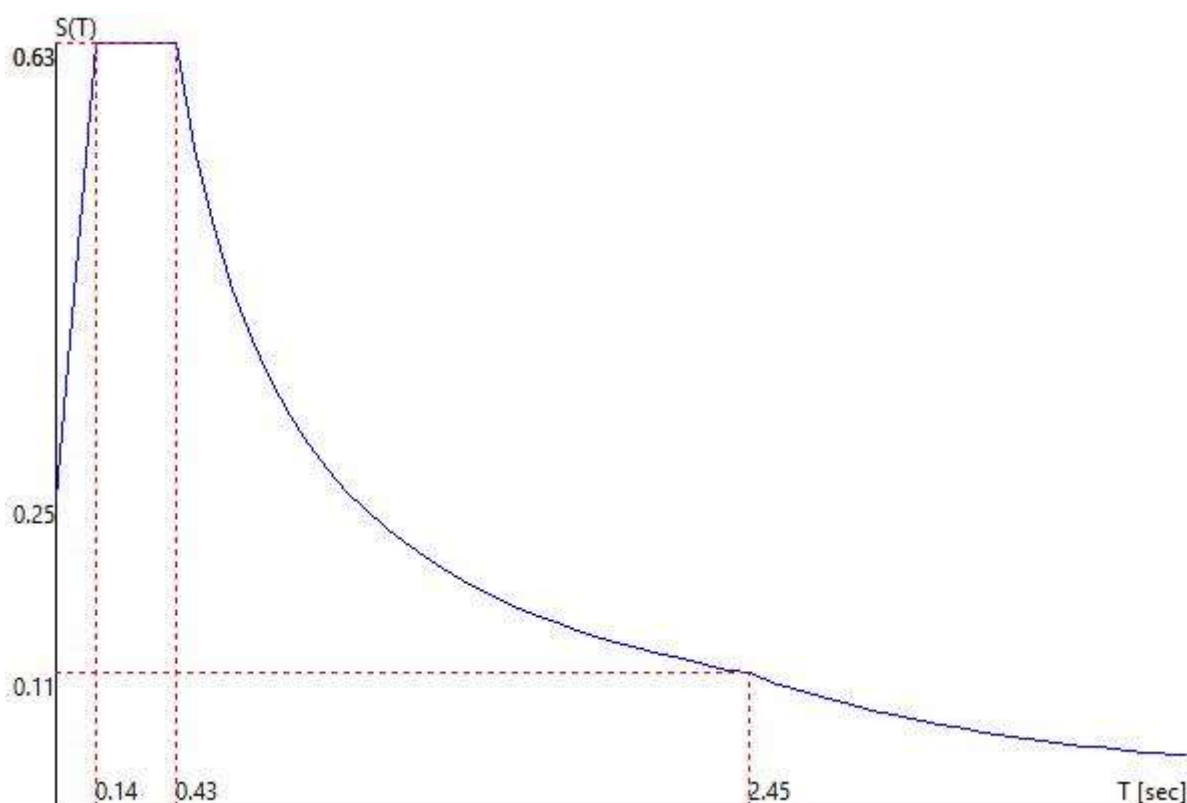
Spettro in accordo con TU 2008

- Camerano AN Longitudine 13.5522 Latitudine 43.5325

- I valori di a_g/g sono ottenuti con una interpolazione Bilineare sul reticolo di riferimento.
- Tipo di Terreno C
- Coefficiente di amplificazione topografica (S_T) 1.0000
- Vita nominale della costruzione (V_N) 50.0 anni
- Classe d'uso III coefficiente C_U 1.5
- Classe di duttilità impostata Bassa
- Fattore di struttura massimo q_o per sisma orizzontale 1.00
- Fattore di duttilità α_u/α_1 per sisma orizzontale 1.00
- Fattore riduttivo regolarità in altezza K_R 1.00
- Fattore riduttivo per la presenza di setti K_W 1.00
- Fattore di struttura q per sisma orizzontale 1.00
- Fattore di struttura q per sisma verticale 1.50
- Smorzamento Viscoso (0.05 = 5%) 0.05

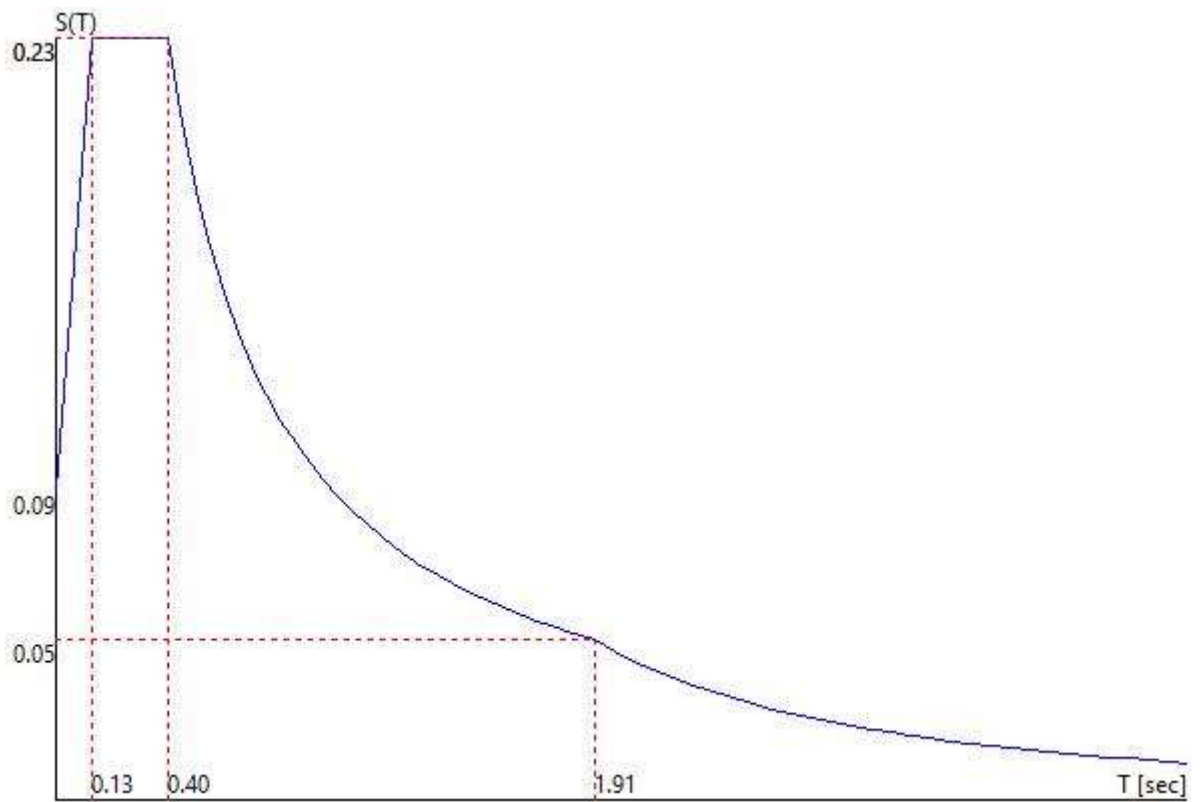
TU 2008 SLV H

- Probabilità di superamento (P_{VR}) 10.0 e periodo di ritorno (T_R) 712 (anni)
- S_s 1.39
- T_B 0.14 [sec]
- T_C 0.43 [sec]
- T_D 2.45 [sec]
- a_g/g 0.2126
- F_o 2.4841
- T_c^* 0.3056



TU 2008 SLD H

- Probabilità di superamento (P_{VR}) 63.0 e periodo di ritorno (T_R) 75 (anni)
- S_s 1.5
- T_B 0.13 [sec]
- T_C 0.40 [sec]
- T_D 1.91 [sec]
- a_g/g 0.0765
- F_o 2.4731
- T_C^* 0.2800



Fattori di partecipazione per il calcolo delle masse

Cond. Carico 1 Cond. 1 1.0000
Cond. Carico 2 Cond. 2 1.0000
Cond. Carico 3 Cond. 3 1.0000
Cond. Carico 4 Cond. 4 1.0000
Cond. Carico 5 Cond. 5 0.0000

Angoli d'ingresso del Sisma

- SLV Direzione 1 Angolo in pianta 0.00 [°]
- SLV Direzione 2 Angolo in pianta 0.00 [°]
- SLV Direzione 3 Angolo in pianta 90.00 [°]
- SLV Direzione 4 Angolo in pianta 90.00 [°]
- SLV Direzione 5 Angolo in pianta 180.00 [°]
- SLV Direzione 6 Angolo in pianta 180.00 [°]
- SLV Direzione 7 Angolo in pianta 270.00 [°]
- SLV Direzione 8 Angolo in pianta 270.00 [°]
- SLD Direzione 9 Angolo in pianta 0.00 [°]
- SLD Direzione 10 Angolo in pianta 0.00 [°]
- SLD Direzione 11 Angolo in pianta 90.00 [°]
- SLD Direzione 12 Angolo in pianta 90.00 [°]
- SLD Direzione 13 Angolo in pianta 180.00 [°]
- SLD Direzione 14 Angolo in pianta 180.00 [°]
- SLD Direzione 15 Angolo in pianta 270.00 [°]
- SLD Direzione 16 Angolo in pianta 270.00 [°]

Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m ²]
1	16.89	10.80	3.00	17732.7	2184153.3

Rigidezze traslanti dei solai.

Solaio	Kxx [kg/m]	Kyy [kg/m]	Kxy [kg/m]	Kxt [kgm]	Kyt [kgm]
1	5.4e+08	6.4e+08	9.3e+06	-4.0e+07	7.3e+08

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]				
1	25	21458.1	-3603.0	54433.3							
	26	718.1	3865.5	-5032.7							
	27	224.0	-326.9	-23175.4							
Per Via Statica Equivalente					22438.1	0.0	-52114.0				
Per Via Modale					21897.3	-3448.5	55196.6				

Solaio	Modo	Fx [kg]	Fy [kg]	Mt [kgm]	Fx Ris. [kg]	Fy Ris. [kg]	Mt Ris. [kgm]
Variazione					-540.8	-3448.5	107310.6

Spostamenti Massimi

Combinazioni agli Stati Limite Ultimi

Valori Min					Valori Max				Valori Max					
Componente														
	Comb	Nodo	Valore			Comb	Nodo	Valore			Comb	Nodo	Valore	
Ux	1	2463	-0.01	[cm]	1	1613	0.01	[cm]	1	2463	-0.01	[cm]		
Uy	1	2780	-0.00	[cm]	1	1421	0.00	[cm]	1	1421	0.00	[cm]		
Uz	1	3936	-0.88	[cm]	1	3976	0.02	[cm]	1	3936	-0.88	[cm]		
Rx	1	4110	-0.02	[°]	1	3976	0.02	[°]	1	3976	0.02	[°]		
Ry	1	4138	-0.38	[°]	1	3931	0.40	[°]	1	3931	0.40	[°]		
Rz	1	2806	-0.00	[°]	1	1483	0.00	[°]	1	1483	0.00	[°]		

Combinazioni agli Stati Limite di Salvaguardia della Vita

Componente	Valori Min					Valori Max				Valori Max				
	Comb	Nodo	Valore			Comb	Nodo	Valore			Comb	Nodo	Valore	
Ux	10 Sisma 180+ / 90+	2463	- 0.02	[cm]	3 Sisma 0+ / 270+	1751	0.02	[cm]		10 Sisma 180+ / 90+	2463	- 0.02	[cm]	
Uy	14 Sisma 270+ / 0+	1375	- 0.02	[cm]	9 Sisma 90- / 180-	1950	0.02	[cm]		14 Sisma 270+ / 0+	1375	- 0.02	[cm]	
Uz	12 Sisma 180- / 90-	3936	- 0.50	[cm]	17 Sisma 270- / 180-	3976	0.01	[cm]		12 Sisma 180- / 90-	3936	- 0.50	[cm]	

Rx	11 Sisma 180+ / 270+	4110	- 0.01	[°]	2 Sisma 0+ / 90+	3976	0.01	[°]	2 Sisma 0+ / 90+	3976	0.01	[°]
Ry	5 Sisma 0- / 270-	4138	- 0.22	[°]	12 Sisma 180- / 90-	3931	0.23	[°]	12 Sisma 180- / 90-	3931	0.23	[°]
Rz	9 Sisma 90- / 180-	1528	- 0.00	[°]	14 Sisma 270+ / 0+	2457	0.00	[°]	14 Sisma 270+ / 0+	2457	0.00	[°]

Combinazioni agli Stati Limite di Danno

Componente	Valori Min				Valori Max				Valori Max			
	Comb	Nodo	Valore		Comb	Nodo	Valore		Comb	Nodo	Valore	
Ux	26 Sisma 180+ / 90+	2463	- 0.01	[cm]	19 Sisma 0+ / 270+	1751	0.01	[cm]	26 Sisma 180+ / 90+	2463	- 0.01	[cm]
Uy	30 Sisma 270+ / 0+	1354	- 0.01	[cm]	25 Sisma 90- / 180-	1950	0.01	[cm]	30 Sisma 270+ / 0+	1354	- 0.01	[cm]
Uz	28 Sisma 180- / 90-	3936	- 0.50	[cm]	33 Sisma 270- / 180-	3976	0.01	[cm]	28 Sisma 180- / 90-	3936	- 0.50	[cm]
Rx	27 Sisma 180+ / 270+	4110	- 0.01	[°]	18 Sisma 0+ / 90+	3976	0.01	[°]	18 Sisma 0+ / 90+	3976	0.01	[°]
Ry	21 Sisma 0- / 270-	4138	- 0.22	[°]	28 Sisma 180- / 90-	3931	0.23	[°]	28 Sisma 180- / 90-	3931	0.23	[°]
Rz	28 Sisma 180- / 90-	2806	- 0.00	[°]	27 Sisma 180+ / 270+	1483	0.00	[°]	27 Sisma 180+ / 270+	1483	0.00	[°]

VERIFICA PANNELLI

Modalità di verifica

Gli elementi lastra/piastra possono essere distinti in due categorie in funzione dello stato di sollecitazione:

- elementi soggetti ad uno stato di sollecitazione semplice (flessione o tensionale a membrana);
- elementi soggetti ad uno stato di sollecitazione misto (flessionale e tensionale a membrana).

Le verifiche per stato di sollecitazione semplice sono svolte proiettando le armature lungo le direzioni principali e effettuando la verifica a flessione retta/membrana lungo tali direzioni.

Per gli elementi soggetti ad uno stato di sollecitazione misto, le direzioni principali variano, lungo lo sviluppo z dell'elemento, in modo continuo. Il codice di verifica procede a:

- suddivisione dell'elemento in strati di 1 cm di spessore;
- valutazione, per ogni strato, del corrispondente stato di deformazione e tensione membranale;
- ricostruzione, per sovrapposizione dei vari strati membranali, del comportamento globale dell'elemento soggetto allo stato misto di presso-flessione.

L'Utente può definire delle sezioni trasversali, per le quali le sollecitazioni sono valutate mediando integrazione sulla lunghezza della sezione

Nella determinazione della matrice di rigidità degli strati di cls, si assume:

- Metodo T.A.: il calcestruzzo in compressione è assunto indefinitamente elastico lineare mentre, in trazione, si può assumere (opzionalmente) che sia in grado di assumere una trazione compresa fra 0 e f_{ct} , essendo f_{ct} la resistenza a trazione del calcestruzzo definita dall'EC2;
- Metodo S.L.U.: il metodo impiegato è quello noto come MCFT acronimo di "Modified Compression Field Method", sviluppato presso l'Università di Toronto da Collins e Del Vecchio a partire dagli anni '80. Il metodo, nella forma implementata, assume per la curva monoassiale tensione-deformazioni del cls quanto previsto dall'EC2;

La verifica a punzonamento può essere condotta considerando o non considerando autoequilibrate le tensioni nel terreno sotto il cono di punzonamento. L'angolo di diffusione è fissato dall'utente.

I copriferri indicati sono da intendersi riferiti al centro delle barre resistenti.

Simbologia utilizzata T.A.:

 σ_{amm}

Tensione ammissibile

 $\sigma_{amm, \text{Trazione}}$

Tensione ammissibile di trazione cls

$$\sigma_{cls,1}$$

Tensione cls direzione 1

$$\sigma_{cls,2}$$

Tensione cls direzione 2

$$\sigma_{acciaio,1}$$

Tensione acciaio direzione 1

$$\sigma_{acciaio,2}$$

Tensione acciaio direzione 2

$$c f_{x,Eq}$$

Copriferro in direzione x

$$A f_x$$

Armatura in direzione x

$$c f_{y,Eq}$$

Copriferro in direzione y

$$A f_y$$

Armatura in direzione y

$$N_{xI}, N_{yI}, N_{xyI}, M_{xxI}, M_{yyI}, M_{xyI}$$

Componenti di sollecitazione esterna

$$N_{11I}, N_{22I}, M_{11I}, M_{22I}, M_{12I}$$

Componenti di sollecitazione principali

$$\alpha$$

Angolo direzioni principali

$$d$$

Distanza a cui è calcolato il perimetro critico

$$\tau_{b,0}$$

Tensione ammissibile a taglio elementi privi di armatura a taglio

$\tau_{b,1}$

Tensione ammissibile a taglio elementi con armatura a taglio

N, M_x, M_y

Sollecitazione esterna verifica a punzonamento

τ

Tensione tangenziale massima

Simbologia utilizzata S.L.:

f_{yd}

Tensione di snervamento di progetto barre armatura

ε_{ud}

Deformazione uniforme ultima

ε_{yd}

Deformazione al limite di snervamento

f_{ck}

Resistenza cilindrica caratteristica

f_{cd}

Tensione di calcolo a compressione di base

ε_{c2}

Deformazione limite elastico

ε_y

Deformazione limite ultimo

f_{ctd}

Tensione di calcolo a trazione di progetto

ε_{ctd}

Deformazione al limite di trazione

E_{cm}

Modulo elastico

c_{f,x,Eq}

Copriferro in direzione x

A_{f,x}

Armatura in direzione x

c_{f,y,Eq}

Copriferro in direzione y

A_{f,y}

Armatura in direzione y

N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}

Componenti di sollecitazione esterna

N₁₁, N₂₂, M₁₁, M₂₂, M₁₂

Componenti di sollecitazione principali

α

Angolo direzioni principali

Cr

Coefficiente rottura S_D/S_R

ε_x

Deformazione acciaio direzione x

ε_y

Deformazione acciaio direzione y

ε_{min}

Deformazione minima cls

ε_{max}

Deformazione massima cls

 θ_{\max}

Angolo direzioni principali di deformazione

 σ_{amm}

Tensione ammissibile S.L.E. di riferimento

 σ_x

Tensione nelle barre nello S.L.E. di riferimento in direzione x

 σ_y

Tensione nelle barre nello S.L.E. di riferimento in direzione y

 $\sigma_{c,\text{Max}}$

Tensione massima nel cls nello S.L.E. di riferimento

 d

Distanza a cui è calcolato il perimetro critico

 $C_{\text{Rd},c}$

Coefficiente taglio resistente elementi privi di armatura a taglio

 $V_{\text{Ed}}, M_{x,\text{Ed}}, M_{y,\text{Ed}}$

Sollecitazione esterna verifica a punzonamento

 B_x, B_y

Dimensioni perimetro critico

 β

Angolo diffusione tensioni

 v_{Ed}

Tensione tangenziale sull'area critica

 ρ

Rapporto meccanico di armatura

 $V_{\text{Rd},c}$

Taglio resistente elementi privi di armatura

Armature

Su tutti i pannelli prefabbricati è stata considerata un'armatura all'estradosso e all'intradosso, costituita da rete metallica $\Phi 6$ a maglia 15x15 cm.

Impostazioni di verifica

Curva σ/ϵ Calcestruzzo

- secondo Hognestad

Modellazione softening (trazione/compressione)

- $f_{c,d,soft} = f_{c,d} \cdot 0.9 / \sqrt{1 + 400 \epsilon_t}$ / Hognestad

Modellazione compressione biassiale

- $f_{c,d,biaxial} = f_{c,d} (1 + 3.8 \alpha) / (1.0 + \alpha)^2$ / $\alpha = \epsilon_{c1} / \epsilon_{c2}$ (EC2 Ponti 6.110)

Verifiche SLU Flessione elementi

Proprietà dei materiali

Acciaio FeB 44K

- f_{yd} 2822.6 [kg/cm²]
- ϵ_{ud} 67.50 ‰
- ϵ_{yd} 1.34 ‰

Calcestruzzo C12/15

- f_{cd} 55.7 [kg/cm²]
- ϵ_{c2} -2.00 ‰
- ϵ_{cu} -3.50 ‰
- f_{ctd} 6.0 [kg/cm²]
- ϵ_{ctd} 0.11 ‰
- E_{cm} 55700.0 [kg/cm²]

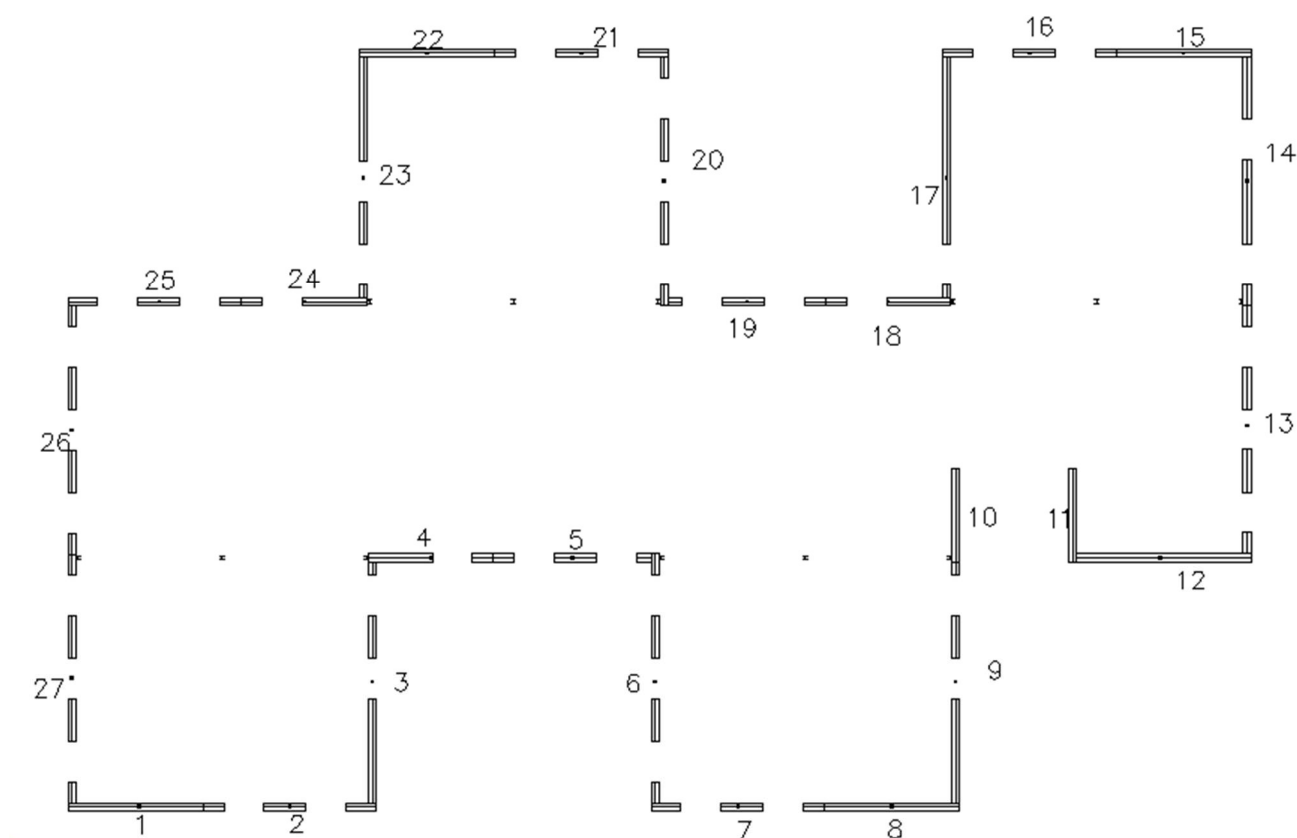
Sezione

- sezione 2 H=22.00 [cm]

Estradosso				Intradosso			
Af_x	$cf_{x,Eq}$	Af_y	$cf_{y,Eq}$	Af_x	$cf_{x,Eq}$	Af_y	$cf_{y,Eq}$
[cm ²] / m	[cm]	[cm ²] / m	[cm]	[cm ²] / m	[cm]	[cm ²] / m	[cm]

1.88	5.00	1.88	5.00	1.88	5.00	1.88	5.00
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Per una più facile comprensione del fascicolo calcolo, si è effettuata la numerazione dei pannelli prefabbricati componenti la struttura secondo quanto illustrato nella seguente figura.



Si riportano a seguire le verifiche di resistenza effettuate sui pannelli nelle zone maggiormente sollecitate.

Verifica Pannello n.1

Azioni di verifica combinazione 12 (0.18 1.35 [m])

M_{xx}	9.82	[kgm/m]	M_{11}	-4.49	[kgm/m]
M_y	40.49	[kgm/m]	M_{22}	54.81	[kgm/m]
M_{xy}	25.38	[kgm/m]	α	-29.43	[°]

Verifiche

Acciaio

Calcestruzzo

Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
--------	-----------	----------------	----------------	--------------------	--------------------	--------------

0.05	Estradosso	5.653	15.892	29.101	-0.121	59.08
	Intradosso	1.041	2.845	-0.048	-3.500	-29.79



Verifica Pannello n.2

Azioni di verifica combinazione 2 (4.61 0.15 [m])

M_{xx}	0.26	[kgm/m]	M_{11}	-0.01	[kgm/m]
M_y	12.46	[kgm/m]	M_{22}	-12.71	[kgm/m]
M_{xy}	1.79	[kgm/m]	α	8.17	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	0.668	16.574	23.440	-0.055	78.43
	Intradosso	0.140	2.509	0.006	-3.500	-9.10

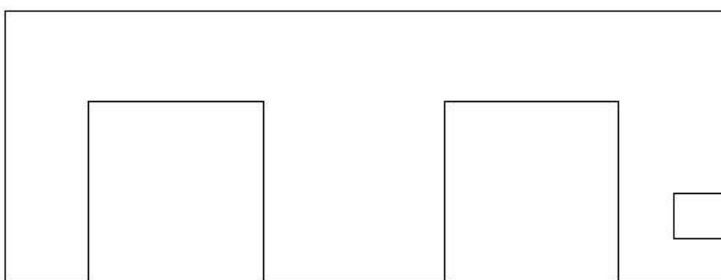


Azioni di verifica combinazione 2 (4.61 0.45 [m])

M_{xx}	-8.38	[kgm/m]	M_{11}	3.39	[kgm/m]
M_y	-45.22	[kgm/m]	M_{22}	-57.00	[kgm/m]
M_{xy}	-23.92	[kgm/m]	α	-26.20	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.06	Estradosso	0.883	3.024	-0.041	-3.500	-26.44
	Intradosso	4.705	16.889	29.158	-0.117	62.05



Verifica Pannello n.3

Azioni di verifica combinazione 12 (0.15 1.05 [m])

M_{xx}	-0.38	[kgm/m]	M_{11}	1.67	[kgm/m]
M_y	7.23	[kgm/m]	M_{22}	-8.52	[kgm/m]
M_{xy}	3.39	[kgm/m]	α	20.84	[°]

Verifiche

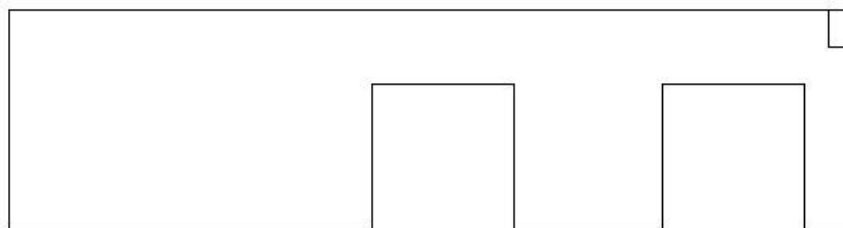
		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	2.621	15.142	24.211	-0.156	67.17
	Intradosso	0.502	2.318	0.028	-3.500	-20.14

Azioni di verifica combinazione 1 (6.75 1.65 [m])

M_{xx}	4.00	[kgm/m]	M_{11}	-24.95	[kgm/m]
M_y	-71.77	[kgm/m]	M_{22}	92.72	[kgm/m]
M_{xy}	-45.02	[kgm/m]	α	24.96	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.09	Estradosso	0.662	2.209	0.028	-3.500	-24.25
	Intradosso	3.580	14.353	24.448	-0.172	63.27



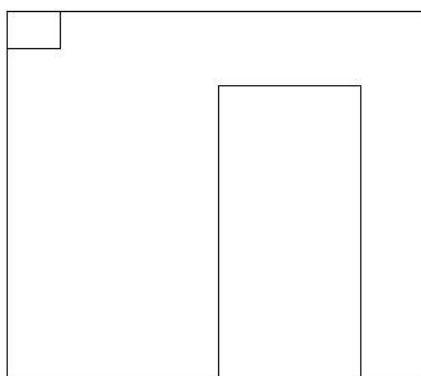
[Verifica Pannello n.4](#)

Azioni di verifica combinazione 1 (0.21 2.85 [m])

M_{xx}	-26.59	[kgm/m]	M_{11}	-7.64	[kgm/m]
M_y	-214.37	[kgm/m]	M_{22}	248.60	[kgm/m]
M_{xy}	87.17	[kgm/m]	α	-21.44	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.25	Estradosso	0.639	3.156	-0.026	-3.500	21.44
	Intradosso	3.322	17.862	28.618	-0.113	-66.51



[Verifica Pannello n.5](#)

Azioni di verifica combinazione 1 (2.70 0.15 [m])

M_{xx}	0.54	[kgm/m]	M_{11}	-1.02	[kgm/m]
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M_y	1.80	[kgm/m]	M_{22}	3.37	[kgm/m]
M_{xy}	2.10	[kgm/m]	α	-36.64	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.00	Estradosso	7.523	13.120	27.978	-0.177	52.77
	Intradosso	1.330	2.313	-0.015	-3.500	-37.01

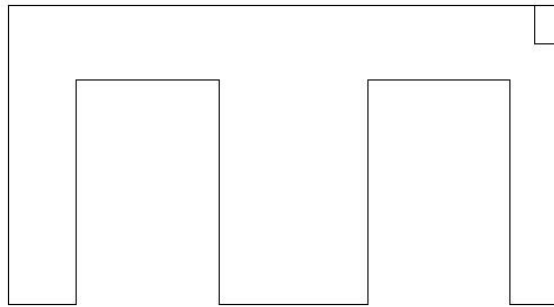


Azioni di verifica combinazione 1 (4.35 2.25 [m])

M_{xx}	3.21	[kgm/m]	M_{11}	-28.84	[kgm/m]
M_y	-87.69	[kgm/m]	M_{22}	113.32	[kgm/m]
M_{xy}	-54.65	[kgm/m]	α	25.13	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.11	Estradosso	0.669	2.210	0.024	-3.500	-24.44
	Intradosso	3.634	14.338	24.495	-0.168	63.09



Verifica Pannello n.6

Azioni di verifica combinazione 1 (0.15 6.58 [m])

N_x	3305.0	[kg/m]	N_{11}	-86.1	[kg/m]
N_y	-54.6	[kg/m]	N_{22}	3336.6	[kg/m]
N_{xy}	327.0	[kg/m]	α	5.51	[°]
M_{xx}	12.51	[kgm/m]	M_{11}	-2.80	[kgm/m]
M_y	3.93	[kgm/m]	M_{22}	-13.64	[kgm/m]
M_{xy}	3.32	[kgm/m]	α	-18.85	[°]

Verifiche

Acciaio

Calcestruzzo

Cr=S/R Posizione

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.33	Estradosso	67.500	0.878	88.737	-0.074	6.71
	Intradosso	19.944	0.258	0.006	-0.089	71.91



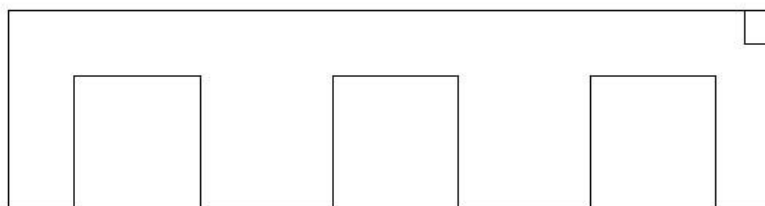
Azioni di verifica combinazione 1 (6.83 1.65 [m])

M_{xx}	52.68	[kgm/m]	M_{11}	42.23	[kgm/m]
M_y	330.73	[kgm/m]	M_{22}	-425.64	[kgm/m]

M_{xy}	188.14	[kgm/m]	α	26.77	[°]
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Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.42	Estradosso	4.834	16.632	29.000	-0.127	61.54
	Intradosso	0.907	2.967	-0.034	-3.500	-26.98



[Verifica Pannello n.7](#)

Azioni di verifica combinazione 12 (0.19 1.05 [m])

M_{xx}	-0.32	[kgm/m]	M_{11}	0.22	[kgm/m]
M_y	-10.60	[kgm/m]	M_{22}	10.70	[kgm/m]
M_{xy}	-1.05	[kgm/m]	α	5.77	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	0.098	3.429	-0.003	-3.500	-6.91
	Intradosso	0.459	19.765	27.287	-0.032	81.17



Azioni di verifica combinazione 12 (0.18 1.65 [m])

M_{xx}	-9.73	[kgm/m]	M_{11}	-3.67	[kgm/m]
M_y	-40.42	[kgm/m]	M_{22}	53.82	[kgm/m]
M_{xy}	24.31	[kgm/m]	α	-28.87	[°]

Verifiche

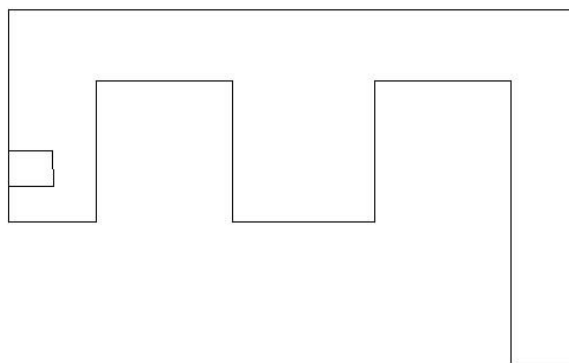
Acciaio

Calcestruzzo

Cr=S/R Posizione

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.05	Estradosso	1.015	2.881	-0.050	-3.500	29.22
	Intradosso	5.496	16.083	29.142	-0.118	-59.58



[Verifica Pannello n.8](#)

Azioni di verifica combinazione 2 (3.51 1.65 [m])

M_{xx}	-7.33	[kgm/m]	M_{11}	-4.91	[kgm/m]
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M_y	-47.17	[kgm/m]	M_{22}	59.41	[kgm/m]
M_{xy}	-25.25	[kgm/m]	α	25.86	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.06	Estradosso	0.861	3.011	-0.034	-3.500	-26.03
	Intradosso	4.572	16.890	28.991	-0.123	62.38



[Verifica Pannello n.9](#)

Azioni di verifica combinazione 1 (5.10 1.05 [m])

M_{xx}	1.54	[kgm/m]	M_{11}	-3.13	[kgm/m]
M_y	-7.71	[kgm/m]	M_{22}	9.30	[kgm/m]
M_{xy}	4.15	[kgm/m]	α	-20.97	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	0.505	2.248	0.061	-3.500	20.11
	Intradosso	2.560	14.901	23.847	-0.193	-67.17

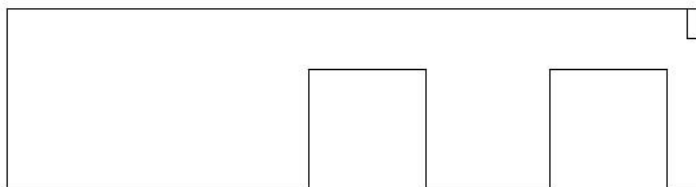


Azioni di verifica combinazione 1 (6.76 1.65 [m])

M_{xx}	7.46	[kgm/m]	M_{11}	-29.54	[kgm/m]
M_y	-68.06	[kgm/m]	M_{22}	90.14	[kgm/m]
M_{xy}	-46.42	[kgm/m]	α	25.44	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.09	Estradosso	0.679	2.173	0.041	-3.500	-24.68
	Intradosso	3.662	14.179	24.340	-0.187	62.86



[Verifica Pannello n.10](#)

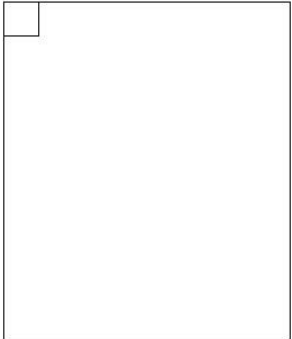
Azioni di verifica combinazione 1 (0.15 2.85 [m])

M_{xx}	-31.33	[kgm/m]	M_{11}	-10.59	[kgm/m]
M_y	-243.93	[kgm/m]	M_{22}	285.84	[kgm/m]
M_{xy}	103.29	[kgm/m]	α	-22.09	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]

0.28	Estradosso	0.671	3.140	-0.028	-3.500	22.11
	Intradosso	3.500	17.741	28.694	-0.114	-65.89



Verifica Pannello n.11

Azioni di verifica combinazione 1 (0.16 2.85 [m])

M_{xx}	23.20	[kgm/m]	M_{11}	-6.24	[kgm/m]
M_y	173.03	[kgm/m]	M_{22}	202.47	[kgm/m]
M_{xy}	-72.65	[kgm/m]	α	22.06	[°]

Verifiche

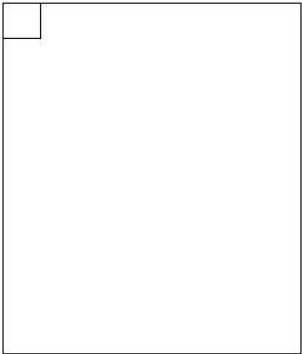
Acciaio

Calcestruzzo

Cr=S/R **Posizione** _____

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.20	Estradosso	3.500	17.770	28.730	-0.112	-65.91
	Intradosso	0.671	3.148	-0.029	-3.500	22.10



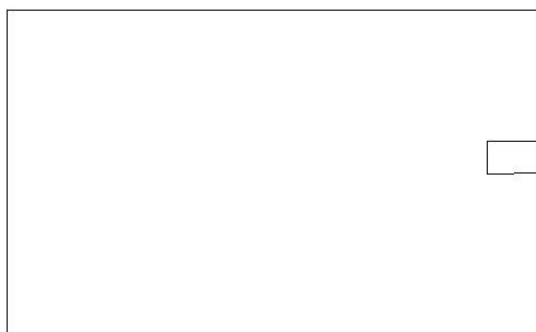
Verifica Pannello n.12

Azioni di verifica combinazione 2 (4.63 1.65 [m])

M_{xx}	-3.15	[kgm/m]	M_{11}	-0.83	[kgm/m]
M_y	-58.84	[kgm/m]	M_{22}	62.82	[kgm/m]
M_{xy}	-15.42	[kgm/m]	α	14.49	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.06	Estradosso	0.265	2.427	0.008	-3.500	-14.01
	Intradosso	1.363	16.016	23.678	-0.114	73.41



Verifica Pannello n.13

Azioni di verifica combinazione 17 (0.15 2.25 [m])

M_{xx}	0.38	[kgm/m]	M_{11}	-0.34	[kgm/m]
M_y	6.55	[kgm/m]	M_{22}	-6.58	[kgm/m]
M_{xy}	0.45	[kgm/m]	α	4.14	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	0.277	19.948	27.268	-0.011	83.21

	Intradosso	0.055	3.468	-0.010	-3.500	-5.23
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Azioni di verifica combinazione 13 (0.15 0.20 [m])

M_{xx}	1.65	[kgm/m]	M_{11}	0.26	[kgm/m]
M_y	-0.20	[kgm/m]	M_{22}	-1.71	[kgm/m]
M_{xy}	0.35	[kgm/m]	α	-10.52	[°]

Verifiche

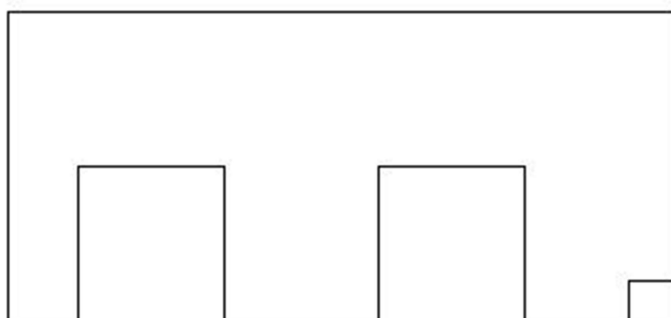
Acciaio

Calcestruzzo

Cr=S/R Posizione

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.00	Estradosso	16.197	0.909	23.311	-0.110	13.71
	Intradosso	2.427	0.207	0.040	-3.500	-79.01



[Verifica Pannello n.14](#)

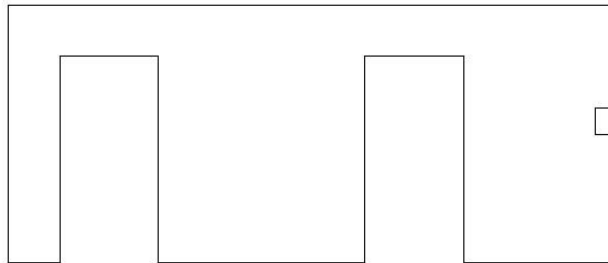
Azioni di verifica combinazione 16 (6.94 1.65 [m])

M_{xx}	-0.70	[kgm/m]	M_{11}	0.70	[kgm/m]
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M_y	8.27	[kgm/m]	M_{22}	-8.27	[kgm/m]
M_{xy}	0.09	[kgm/m]	α	0.60	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	-0.005	15.614	21.285	-0.018	88.98
	Intradosso	0.010	2.164	0.017	-3.500	-0.82



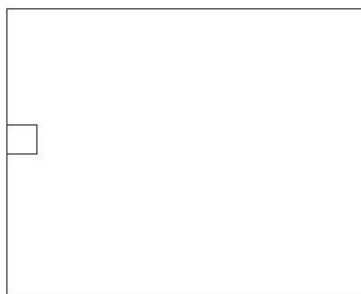
[Verifica Pannello n.15](#)

Azioni di verifica combinazione 5 (0.15 1.65 [m])

M_{xx}	-9.69	[kgm/m]	M_{11}	5.11	[kgm/m]
M_y	-59.29	[kgm/m]	M_{22}	-74.09	[kgm/m]
M_{xy}	30.87	[kgm/m]	α	25.61	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.07	Estradosso	0.850	3.033	-0.036	-3.500	25.79
	Intradosso	4.511	16.991	29.041	-0.120	-62.61



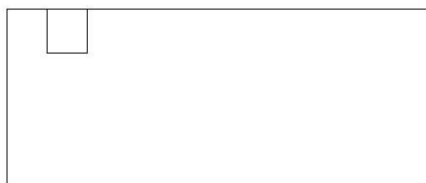
Verifica Pannello n.16

Azioni di verifica combinazione 14 (0.41 1.05 [m])

M_{xx}	-0.18	[kgm/m]	M_{11}	0.43	[kgm/m]
M_{yy}	-0.34	[kgm/m]	M_{22}	-0.94	[kgm/m]
M_{xy}	0.68	[kgm/m]	α	41.66	[°]

Verifiche

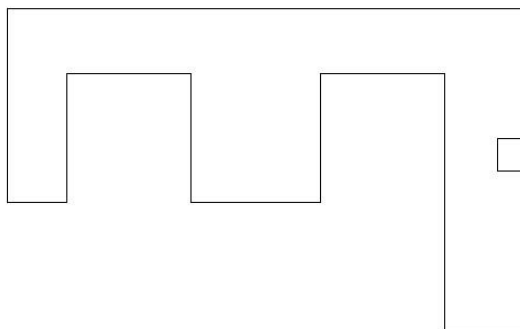
		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.00	Estradosso	1.180	1.395	0.027	-3.500	41.29
	Intradosso	7.567	9.373	23.206	-0.216	-48.03



Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.05	Estradosso	0.851	2.955	-0.021	-3.500	-25.91

	Intradosso	4.502	16.708	28.674	-0.136	62.42
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[Verifica Pannello n.17](#)

Azioni di verifica combinazione 1 (0.10 2.25 [m])

M_{xx}	-2.36	[kgm/m]	M_{11}	23.16	[kgm/m]
M_y	74.01	[kgm/m]	M_{22}	-94.81	[kgm/m]
M_{xy}	-44.95	[kgm/m]	α	-24.83	[°]

Verifiche

Acciaio

Calcestruzzo

Cr=S/R Posizione

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.10	Estradosso	3.564	14.411	24.497	-0.166	-63.37
	Intradosso	0.658	2.222	0.023	-3.500	24.14



Azioni di verifica combinazione 11 (0.15 6.63 [m])

M_{xx}	-4.87	[kgm/m]	M_{11}	-5.94	[kgm/m]
M_y	0.19	[kgm/m]	M_{22}	10.62	[kgm/m]
M_{xy}	-7.88	[kgm/m]	α	-36.12	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	1.677	1.036	0.062	-3.500	-54.50
	Intradosso	11.119	6.201	23.717	-0.247	36.86



[Verifica Pannello n.18](#)

Azioni di verifica combinazione 17 (0.15 0.43 [m])

M_{xx}	-6.78	[kgm/m]	M_{11}	5.65	[kgm/m]
M_y	-0.06	[kgm/m]	M_{22}	-12.50	[kgm/m]
M_{xy}	8.43	[kgm/m]	α	-34.13	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	1.806	0.986	0.041	-3.500	56.46
	Intradosso	11.841	5.797	24.105	-0.217	-35.09

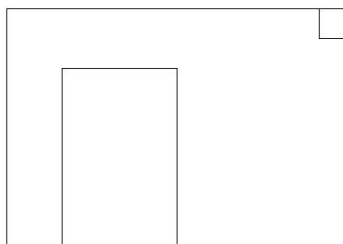


Azioni di verifica combinazione 1 (3.27 2.25 [m])

M_{xx}	38.36	[kgm/m]	M_{11}	14.63	[kgm/m]
M_y	261.62	[kgm/m]	M_{22}	-314.61	[kgm/m]
M_{xy}	120.99	[kgm/m]	α	23.65	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.31	Estradosso	3.948	17.447	28.897	-0.115	64.42
	Intradosso	0.751	3.103	-0.033	-3.500	-23.75



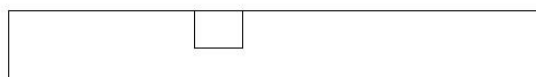
[Verifica Pannello n.19](#)

Azioni di verifica combinazione 1 (1.75 0.45 [m])

M_{xx}	0.52	[kgm/m]	M_{11}	0.97	[kgm/m]
M_y	1.83	[kgm/m]	M_{22}	-3.32	[kgm/m]
M_{xy}	2.04	[kgm/m]	α	36.09	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.00	Estradosso	7.385	13.350	28.095	-0.174	53.26
	Intradosso	1.311	2.358	-0.017	-3.500	-36.45



Azioni di verifica combinazione 1 (0.10 2.25 [m])

M_{xx}	-3.10	[kgm/m]	M_{11}	28.50	[kgm/m]
M_y	87.28	[kgm/m]	M_{22}	-112.68	[kgm/m]
M_{xy}	-54.22	[kgm/m]	α	-25.09	[°]

Verifiche

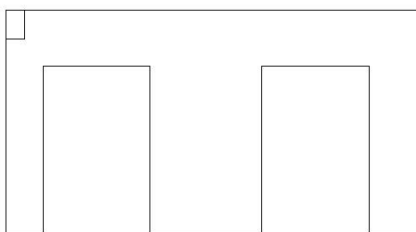
Acciaio

Calcestruzzo

Cr=S/R **Posizione** _____

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.11	Estradosso	3.627	14.346	24.496	-0.168	-63.12
	Intradosso	0.668	2.211	0.024	-3.500	24.41



[Verifica Pannello n.20](#)

Azioni di verifica combinazione 7 (0.13 1.05 [m])

M_{xx}	-1.27	[kgm/m]	M_{11}	0.70	[kgm/m]
M_y	-24.92	[kgm/m]	M_{22}	25.50	[kgm/m]
M_{xy}	-3.72	[kgm/m]	α	8.74	[°]

Verifiche

Acciaio

Calcestruzzo

Cr=S/R **Posizione** _____

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.03	Estradosso	0.178	3.394	-0.004	-3.500	-9.73
	Intradosso	0.846	19.529	27.513	-0.062	78.01

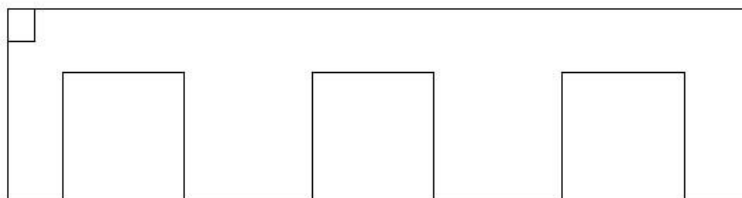


Azioni di verifica combinazione 1 (0.13 1.65 [m])

M_{xx}	-52.44	[kgm/m]	M_{11}	-43.16	[kgm/m]
M_y	-330.24	[kgm/m]	M_{22}	425.85	[kgm/m]
M_{xy}	188.94	[kgm/m]	α	-26.84	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.42	Estradosso	0.910	2.962	-0.034	-3.500	27.05
	Intradosso	4.853	16.608	28.995	-0.127	-61.48



[Verifica Pannello n.21](#)

Azioni di verifica combinazione 11 (0.18 1.05 [m])

M_{xx}	0.24	[kgm/m]	M_{11}	-0.15	[kgm/m]
M_y	10.26	[kgm/m]	M_{22}	10.66	[kgm/m]
M_{xy}	2.03	[kgm/m]	α	-11.03	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	1.002	16.398	23.676	-0.086	75.83
	Intradosso	0.205	2.494	0.009	-3.500	-11.51



Azioni di verifica combinazione 5 (0.18 0.45 [m])

M_{xx}	-8.82	[kgm/m]	M_{11}	3.55	[kgm/m]
M_y	-37.26	[kgm/m]	M_{22}	-49.63	[kgm/m]
M_{xy}	22.47	[kgm/m]	α	28.84	[°]

Verifiche

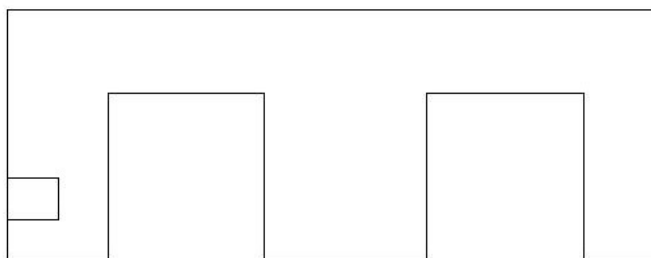
Acciaio

Calcestruzzo

Cr=S/R Posizione

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.05	Estradosso	1.013	2.882	-0.049	-3.500	29.18
	Intradosso	5.483	16.090	29.135	-0.118	-59.62



[Verifica Pannello n.22](#)

Azioni di verifica combinazione 11 (3.46 1.65 [m])

M_{xx}	-6.68	[kgm/m]	M_{11}	4.86	[kgm/m]
M_y	-48.10	[kgm/m]	M_{22}	-59.64	[kgm/m]
M_{xy}	-24.72	[kgm/m]	α	-25.03	[°]

Verifiche

Cr=S/R Posizione

Acciaio

Calcestruzzo

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.06	Estradosso	0.817	3.034	-0.030	-3.500	-25.14
	Intradosso	4.317	17.064	28.885	-0.123	63.16



[Verifica Pannello n.23](#)

Azioni di verifica combinazione 1 (1.75 1.05 [m])

M_{xx}	-0.91	[kgm/m]	M_{11}	2.28	[kgm/m]
M_y	5.96	[kgm/m]	M_{22}	-7.33	[kgm/m]
M_{xy}	3.36	[kgm/m]	α	22.17	[°]

Verifiche

Acciaio

Calcestruzzo

Cr=S/R **Posizione** _____

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.01	Estradosso	2.861	14.778	24.072	-0.185	65.98
	Intradosso	0.552	2.247	0.050	-3.500	-21.35



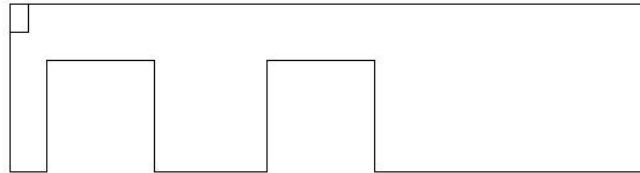
Azioni di verifica combinazione 1 (0.10 1.65 [m])

M_{xx}	-2.64	[kgm/m]	M_{11}	26.36	[kgm/m]
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M_y	87.59	[kgm/m]	M_{22}	-111.31	[kgm/m]
M_{xy}	-51.99	[kgm/m]	α	-24.52	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.11	Estradosso	3.492	14.480	24.492	-0.164	-63.66
	Intradosso	0.646	2.232	0.022	-3.500	23.84



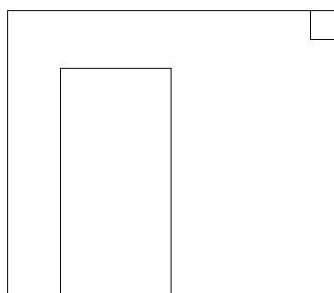
[Verifica Pannello n.24](#)

Azioni di verifica combinazione 1 (3.29 2.85 [m])

M_{xx}	44.09	[kgm/m]	M_{11}	20.18	[kgm/m]
M_y	309.70	[kgm/m]	M_{22}	-373.97	[kgm/m]
M_{xy}	145.61	[kgm/m]	α	23.82	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.37	Estradosso	3.989	17.389	28.876	-0.117	64.27
	Intradosso	0.759	3.090	-0.032	-3.500	-23.91



Verifica Pannello n.25

Azioni di verifica combinazione 15 (0.15 4.60 [m])

M_{xx}	-5.19	[kgm/m]	M_{11}	2.60	[kgm/m]
M_y	-0.25	[kgm/m]	M_{22}	-8.04	[kgm/m]
M_{xy}	-4.71	[kgm/m]	α	31.16	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione	ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	1.978	0.894	0.018	-3.500	-59.42
	Intradosso	12.827	5.137	24.500	-0.183	32.45



Azioni di verifica combinazione 11 (0.19 1.05 [m])

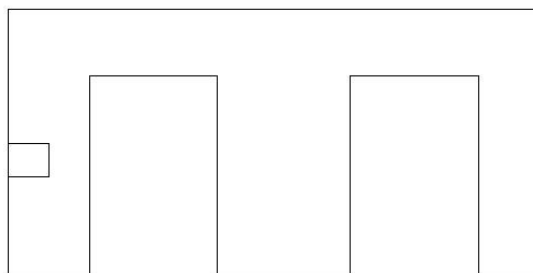
M_{xx}	6.05	[kgm/m]	M_{11}	2.27	[kgm/m]
M_y	47.37	[kgm/m]	M_{22}	-55.69	[kgm/m]
M_{xy}	-20.33	[kgm/m]	α	-22.27	[°]

Verifiche

Cr=S/R	Posizione	Acciaio	Calcestruzzo
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ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.06	Estradosso	3.546	17.699	28.700	-0.115	-65.73
	Intradosso	0.680	3.133	-0.028	-3.500	22.29



Verifica Pannello n.26

Azioni di verifica combinazione 10 (0.15 1.65 [m])

M_{xx}	-3.90	[kgm/m]	M_{11}	-3.90	[kgm/m]
M_y	28.67	[kgm/m]	M_{22}	28.67	[kgm/m]
M_{xy}	0.16	[kgm/m]	α	-0.27	[°]

Verifiche

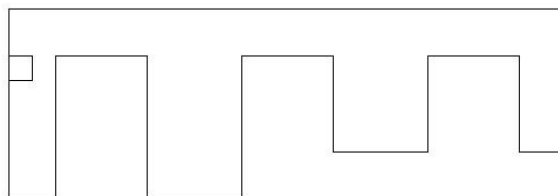
Acciaio

Calcestruzzo

Cr=S/R **Posizione** _____

ϵ_x ‰ ϵ_y ‰ ϵ_{min} ‰ ϵ_{max} ‰ θ [°]

0.03	Estradosso	-0.014	15.598	21.258	-0.028	89.53
	Intradosso	0.015	2.159	0.028	-3.500	-0.37



Azioni di verifica combinazione 1 (0.15 0.45 [m])

M_{xx}	0.03	[kgm/m]	M_{11}	-2.84	[kgm/m]
----------	------	---------	----------	-------	---------

M_y	2.69	[kgm/m]	M_{22}	5.56	[kgm/m]
M_{xy}	3.98	[kgm/m]	α	-35.75	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R Posizione		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	6.150	11.289	23.861	-0.233	53.46
	Intradosso	1.030	1.710	0.051	-3.500	-35.16

[Verifica Pannello n.27](#)

Azioni di verifica combinazione 9 (0.15 1.05 [m])

M_{xx}	0.08	[kgm/m]	M_{11}	-0.68	[kgm/m]
M_y	-3.83	[kgm/m]	M_{22}	4.44	[kgm/m]
M_{xy}	-1.66	[kgm/m]	α	20.13	[°]

Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R Posizione		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.00	Estradosso	0.471	2.348	0.021	-3.500	-19.42
	Intradosso	2.466	15.312	24.222	-0.145	67.89

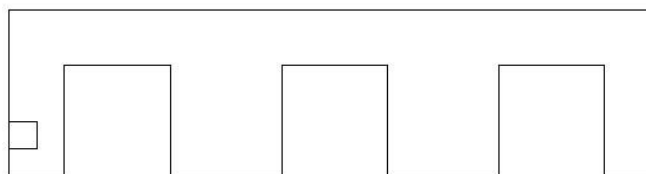
Azioni di verifica combinazione 9 (0.15 0.45 [m])

M_{xx}	1.23	[kgm/m]	M_{11}	-1.25	[kgm/m]
----------	------	---------	----------	-------	---------

M_y	-11.81	[kgm/m]	M_{22}	11.82	[kgm/m]
M_{xy}	0.50	[kgm/m]	α	-2.20	[°]

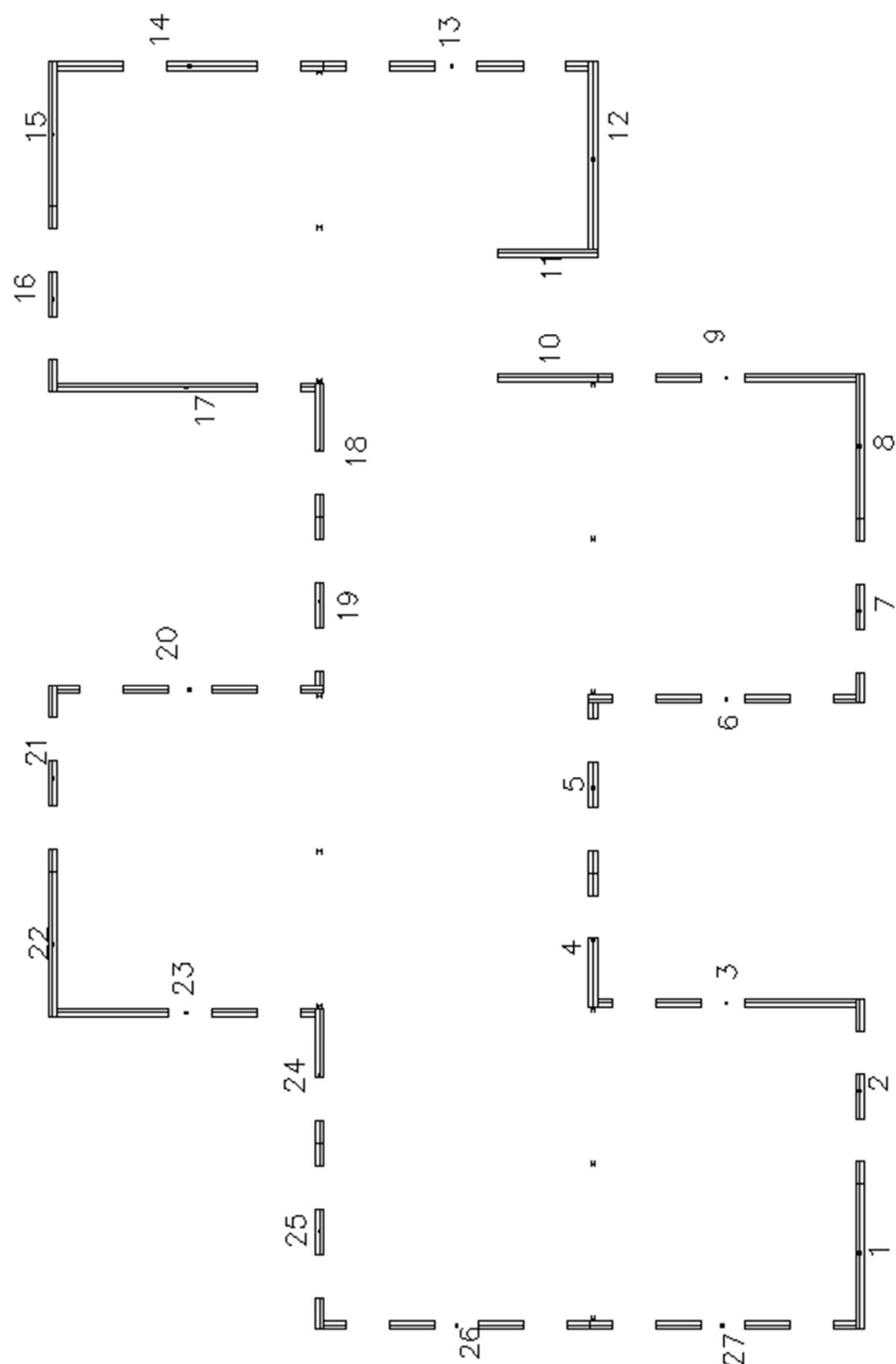
Verifiche

		Acciaio		Calcestruzzo		
Cr=S/R	Posizione					
		ϵ_x ‰	ϵ_y ‰	ϵ_{min} ‰	ϵ_{max} ‰	θ [°]
0.01	Estradosso	0.023	2.158	0.022	-3.500	2.96
	Intradosso	0.049	15.574	21.309	-0.027	-86.34



VERIFICA DELL' INTERVENTO ALLA BASE DEI PANNELLI

Per una più facile comprensione del fascicolo calcolo, si è effettuata la numerazione dei pannelli prefabbricati componenti la struttura secondo quanto illustrato nella seguente figura.



Esportando i valori delle reazioni vincolari alla base dei nodi dei pannelli, si evince che il pannello più sollecitato a taglio longitudinale è il pannello n.22. Questo pannello è definito alla sua base dal nodo n.306 al nodo n.314 e per la combinazione n.11 risulta essere sollecitato da un taglio alla base di 8749.1 Kg.

Nodo	Comb.	Rx	Ry	Rz
		[kg]	[kg]	[kg]
306	2	-657.7	0.4	1293.4
	3	-568.1	-0.2	1136.8
	4	-854.3	1.6	1641.6
	5	-764.7	1.1	1484.9
	6	-320.9	0.2	685.1
	7	43.7	-0.3	30.1
	8	-549.6	1.8	1087.1
	9	-185	1.3	432.1
	10	557.5	-1.4	-889.9
	11	647.1	-1.9	-1046.6
	12	361	-0.1	-541.8
	13	450.6	-0.6	-698.4
	14	-22.2	-1.6	162.9
	15	342.4	-2.1	-492.1
	16	-250.9	0	564.9
	17	113.7	-0.5	-90.1
307	2	-270.3	0	2118.6
	3	-199.7	-0.1	1913.3
	4	-409.7	0	2565.6
	5	-339.1	0	2360.2
	6	-58.9	0	1358.9
	7	181.7	0	533.9
	8	-224.5	0.1	1879.5
	9	16.1	0.1	1054.5
	10	531.6	0	-631.3
	11	602.2	0	-836.6
	12	392.3	0.1	-184.3
	13	462.9	0	-389.7
	14	176.4	-0.1	674.5
	15	417	-0.1	-150.5
	16	10.9	0	1195.1
	17	251.5	0	370.1
308	2	-632.5	-0.1	1369.3
	3	-500.8	0	1251.4
	4	-903.7	-0.1	1572.4
	5	-772	-0.1	1454.5
	6	-202.8	0	1107.5

	7	275.8	0	782.2
	8	-524.1	-0.1	1350.1
	9	-45.5	-0.1	1024.7
	10	962.7	0.1	284.7
	11	1094.4	0.2	166.8
	12	691.5	0	487.9
	13	823.2	0.1	370
	14	236.3	0.1	714.5
	15	714.8	0.2	389.1
	16	-85	0	957.1
	17	393.5	0.1	631.7
309	2	-749.8	-0.1	1020.5
	3	-591.3	0	893.3
	4	-1070.2	-0.2	1131.5
	5	-911.7	-0.1	1004.4
	6	-251.4	-0.1	1042
	7	308.9	0	953.5
	8	-631.2	-0.2	1200.3
	9	-71	-0.1	1111.8
	10	1117.7	0.1	725.5
	11	1276.3	0.2	598.3
	12	797.4	0.1	836.5
	13	955.9	0.1	709.3
	14	277	0.2	618.1
	15	837.3	0.2	529.5
	16	-102.9	0.1	776.3
	17	457.4	0.1	687.8
310	2	-741.4	-0.3	770.8
	3	-571.9	-0.1	615.7
	4	-1070.7	-0.5	828.7
	5	-901.2	-0.3	673.5
	6	-250.9	-0.2	1009.9
	7	312.4	0	1081.8
	8	-642.5	-0.5	1119.5
	9	-79.2	-0.2	1191.4
	10	1136.2	0.4	1010.6
	11	1305.8	0.6	855.4
	12	806.9	0.2	1068.4
	13	976.5	0.4	913.3
	14	314.3	0.4	492.7
	15	877.6	0.6	564.6
	16	-77.3	0.2	602.2
	17	486	0.4	674.2

311	2	-704.9	-0.7	536
	3	-529.9	-0.3	347.6
	4	-1030.9	-1.2	526.9
	5	-855.9	-0.8	338.5
	6	-242.7	-0.6	1005.8
	7	301.7	0	1240.9
	8	-631.4	-1.1	1045.3
	9	-87.1	-0.6	1280.3
	10	1109.6	1	1319.6
	11	1284.7	1.5	1131.2
	12	783.6	0.6	1310.5
	13	958.7	1	1122.1
	14	340.8	0.9	377.8
	15	885.2	1.4	612.9
	16	-47.9	0.3	417.3
	17	496.4	0.8	652.3
312	2	-589.3	-1.3	166
	3	-425.1	-0.6	-44.1
	4	-869.5	-2.1	78.2
	5	-705.4	-1.4	-131.9
	6	-227.7	-1	972.3
	7	224	-0.1	1459.7
	8	-560.2	-2	899.3
	9	-108.5	-1	1386.7
	10	916.4	1.8	1790.5
	11	1080.6	2.5	1580.4
	12	636.2	1	1702.7
	13	800.4	1.7	1492.6
	14	319.6	1.5	271.9
	15	771.3	2.4	759.3
	16	-13	0.5	198.9
	17	438.8	1.5	686.3
313	2	-311.5	-2.4	-480.1
	3	-200.7	-1	-709.4
	4	-460.2	-4	-766.5
	5	-349.5	-2.6	-995.8
	6	-176.8	-1.8	907.5
	7	37.1	-0.1	1897.1
	8	-354.2	-3.9	690.1
	9	-140.2	-2.2	1679.7
	10	401.6	3.3	2818.6
	11	512.4	4.7	2589.3

	12	252.9	1.7	2532.2
	13	363.6	3.1	2302.9
	14	192.4	2.9	143.1
	15	406.3	4.6	1132.7
	16	15	0.7	-74.3
	17	229	2.5	915.4
314	2	-355.3	-5.7	-594.9
	3	-317.7	-2.9	-564.4
	4	-561.6	-10	-949.5
	5	-524.1	-7.1	-919
	6	85.5	-3.6	269.7
	7	464.5	0.6	975
	8	-205.7	-8.8	-239.2
	9	173.3	-4.5	466.1
	10	908	8.5	1756.3
	11	945.6	11.3	1786.7
	12	701.7	4.2	1401.6
	13	739.2	7.1	1432.1
	14	210.6	5.8	371.1
	15	589.6	10.1	1076.4
	16	-80.5	0.7	-137.8
	17	298.5	4.9	567.5

	ΣR_x	ΣR_y
COMB2	-5012.7	-10.2
COMB3	-3905.2	-5.2
COMB4	-7230.8	-16.5
COMB5	-6123.6	-11.3
COMB6	-1646.6	-7.1
COMB7	2149.8	0.1
COMB8	-4323.4	-14.7
COMB9	-527.1	-7.3
COMB10	7641.3	13.8
COMB11	8749.1	19.1
COMB12	5423.5	7.8
COMB13	6531	12.9
COMB14	2045.2	10.1
COMB15	5841.5	17.3
COMB16	-631.6	2.5
COMB17	3164.8	9.8

La lunghezza del pannello è di circa 3,85 m e perciò il taglio di progetto al metro lineare sarà:

$$V_{ed} = 8749.1/3,85 = 2272,5 \text{ Kg/m} \rightarrow 2500 \text{ Kg/m}$$

Il pannello più sollecitato da parte delle reazioni verticali negative (di trazione sugli elementi), è il pannello n.24. Questo pannello è definito alla sua base dal nodo n.335 al nodo n.344 e per la combinazione n.4 il nodo n.340 esplica la massima reazione vincolare negativa di 1148.2 kg.

Nodo	Comb.	Rx	Ry	Rz
		[kg]	[kg]	[kg]
340	2	-208.6	0	-982.2
	3	-190.3	0.3	-838.1
	4	-225	-0.4	-1148.2
	5	-206.8	0	-1004
	6	-179.5	0.1	-413
	7	-137	0.4	212.6
	8	-197.6	-0.4	-593.9
	9	-155.1	-0.1	31.7
	10	-66.9	1	1103.1
	11	-48.7	1.4	1247.3
	12	-83.4	0.7	937.2
	13	-65.1	1	1081.3
	14	-118.6	1.1	67.4
	15	-76.1	1.4	693
	16	-136.8	0.6	-113.5
	17	-94.3	0.9	512.1

Dato che il pannello in questo punto è stato meshato con elementi di lunghezza 0,29 m, dividendo la reazione per la lunghezza di metà elementino si ottiene il valore di sforzo normale massimo di trazione al metro lineare.

$$N_{ed} = -1148,2/0,145 = -6428,28 \text{ Kg/m} \rightarrow - 6500 \text{ Kg/m}$$

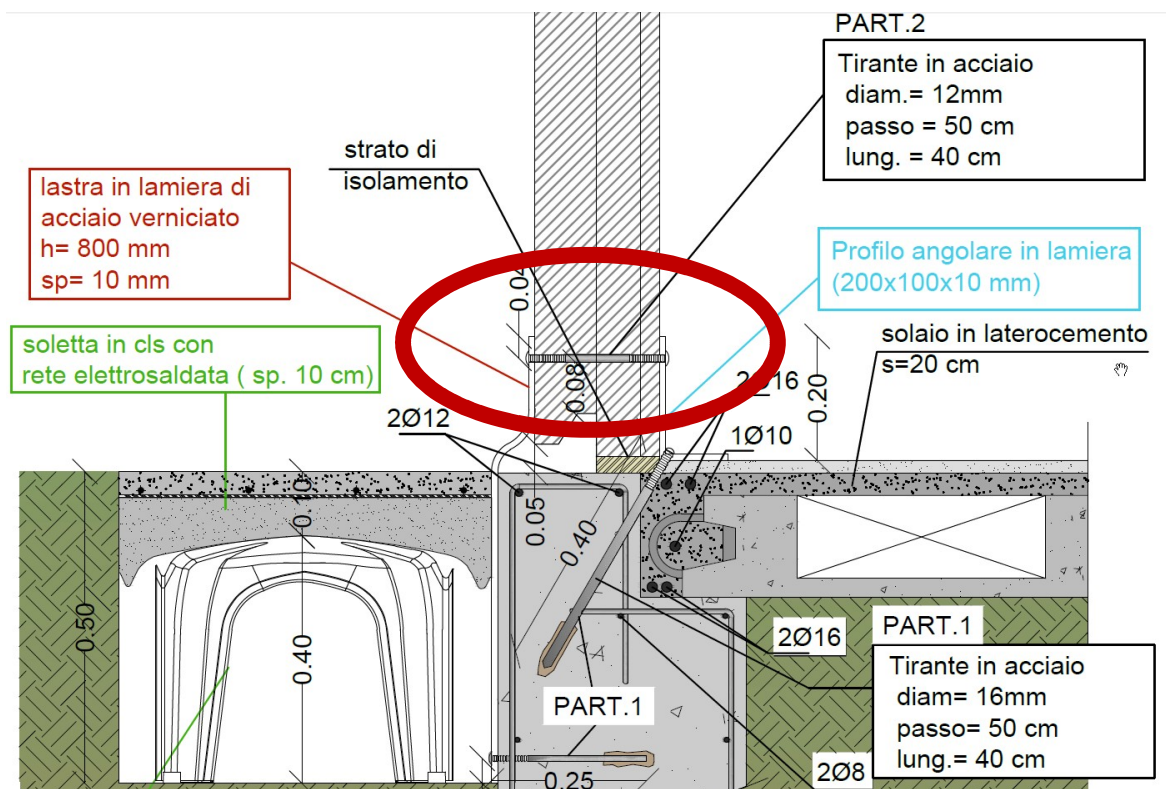
Le sollecitazioni di progetto per l'intervento alla base saranno quindi una forza di trazione $N_{ed} = 6500 \text{ Kg/m}$ e uno sforzo di taglio longitudinale $V_{ed} = 2500 \text{ kg/m}$.

In generale l'intervento alla base può essere schematizzato con n.3 collegamenti:

- Collegamento 1: Collegamento che lega il pannello alla piastra esterna e all'angolare interno
- Collegamento 2: Collegamento che lega il pannello alla base dall'esterno
- Collegamento 3: Collegamento che lega il pannello alla base dall'interno

Verifica del collegamento n.1

Questo collegamento, indicato nella seguente figura è realizzato mediante l'utilizzo di n.2 bulloni M12 al metro aventi classe 8,8.



VERIFICA BULLONI

$$V_{Rd} = 4 (0,6 A_{res} f_u) / \gamma_{M2} = 4 * 0,6 * 84,3 * 800 / 1,25 = 129 485 \text{ N} = 13 199 \text{ Kg}$$

$$V_{Ed} = \sqrt{6500^2 + 2500^2} = 6964,2 \text{ Kg}$$

$V_{Rd} > V_{Ed} \rightarrow$ Verifica soddisfatta

VERIFICA A RIFOLLAMENTO DELLA PIASTRA E DELL'ANGOLARE

Sia la Piastra che l'angolare sono di spessore 10 mm e in acciaio S 235, la verifica sui due elementi è quindi equivalente. Riferendosi al singolo bullone, la resistenza a rifollamento risulta essere:

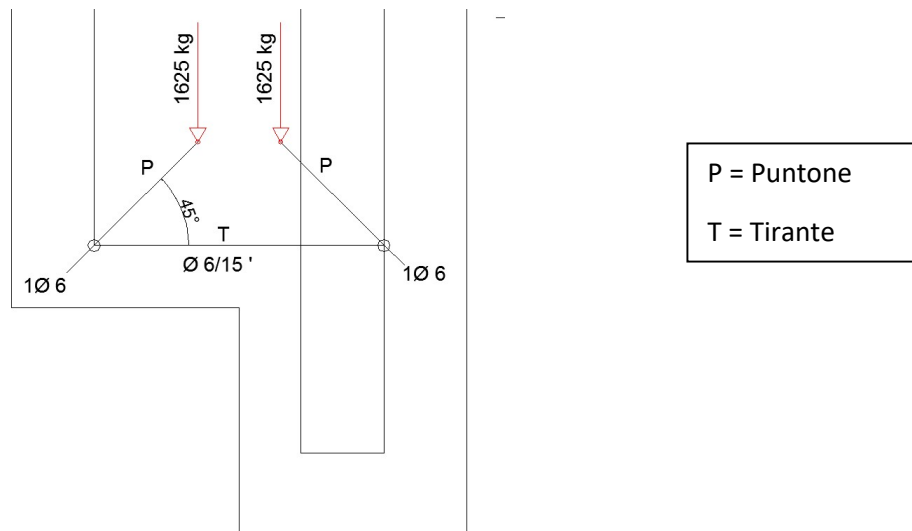
$$V_{Rd} = (K \alpha d t f_{tk}) / \gamma_{M2} = 2,5 * 1 * 12 * 10 * 360 / 1,25 = 86400 \text{ KN} = 8807 \text{ Kg}$$

$$V_{Ed} = \frac{\sqrt{6500^2 + 2500^2}}{4} = 1741 \text{ Kg}$$

$V_{Rd} > V_{Ed} \rightarrow$ Verifica soddisfatta

VERIFICA LATO C.A.

La verifica è stata eseguita considerando il meccanismo resistente puntone/tirante che si genera alla base del pannello, al di sotto del collegamento in esame. Come indicato nella figura seguente, su ogni collegamento si può identificare una forza verticale di $6500/4 = 1625 \text{ kg}$.



L'armatura in trazione è costituita da tondini $\Phi 6$ ogni 15 cm in acciaio FeB44K, che ogni mezzo metro sviluppano una resistenza a trazione pari a:

$$N_{Rd} = (0,5/0,15) * A_s * f_{yd} = \frac{0,5 * 28,26 * 430}{0,15 * 1,15 * 1,35} = 26091 \text{ N} = 2659,6 \text{ Kg}$$

$$N_{Ed} = 1625 \text{ kg}$$

$N_{Rd} > N_{Ed} \rightarrow$ Verifica soddisfatta

La forza orizzontale di taglio verrà invece assorbita dai due correnti inferiori $\Phi 6$

$$N_{Rd} = A_s f_{yd} = \frac{28,26 * 430}{1,15 * 1,35} = 7827 \text{ N} = 797,9 \text{ kg}$$

$$N_{Ed} = 2500/4 = 625 \text{ Kg}$$

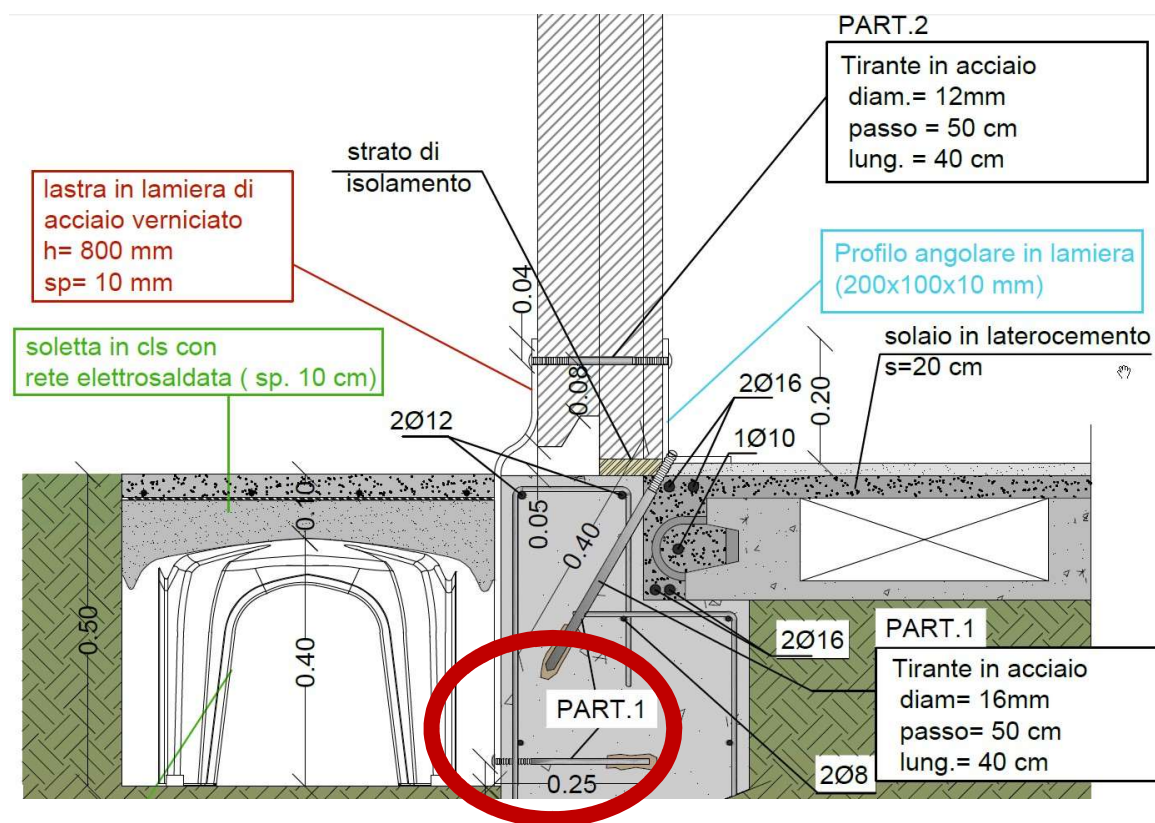
$N_{Rd} > N_{Ed} \rightarrow$ Verifica soddisfatta

Verifica del collegamento n.2

Questo collegamento, indicato nella seguente figura è realizzato mediante l'utilizzo di n.2 bulloni M12 al metro aventi classe 8,8. I bulloni sono collegati al pannello mediante una lastra in acciaio di spessore 10mm.

Lo sforzo di taglio sul singolo bullone del collegamento in esame è pari a:

$$V_{Ed} = \frac{\sqrt{6500^2 + 2500^2}}{4} = 1741 \text{ Kg}$$



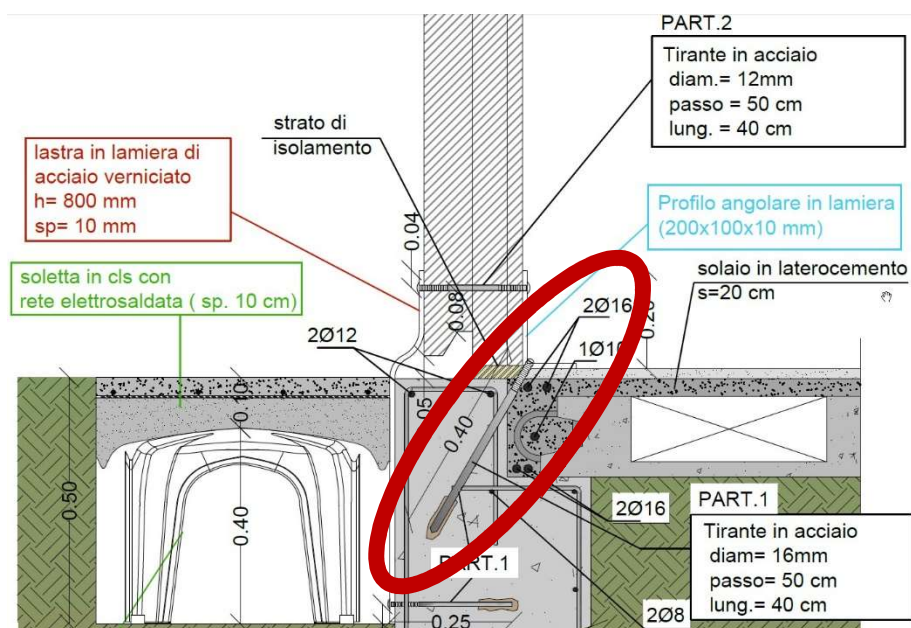
Il taglio resistente del collegamento è pari al minimo dei tre tagli resistenti in esame, ovvero:

- Taglio resistente del bullone lato acciaio: $V_{Rd} = (0,6 A_{res} f_u) / \gamma_{M2} = 32\,371 \text{ N} = 3300 \text{ Kg}$
- Taglio resistente della piastra a rifollamento: $V_{Rd} = (K \alpha d t f_{tk}) / \gamma_{M2} = 8807 \text{ Kg}$
- Taglio resistente lato calcestruzzo: $V_{Rd} = V_{Rd,c} f_{b,v} f_{\beta,v} f_{AR,v} = 8909 \text{ Kg}$

$V_{Rd} > V_{Ed} \rightarrow$ Verifica soddisfatta

Verifica del collegamento n.3

Questo collegamento, indicato nella seguente figura è realizzato mediante l'utilizzo di n.2 bulloni M16 al metro aventi classe 8,8. I bulloni sono collegati al pannello mediante un angolare ad L 200x100x10mm.



Sul tirante del collegamento in esame agirà una forza verticale V_z e una orizzontale V_x trasmesse dal collegamento n.1.

$$V_z = 6500/4 = 1625 \text{ Kg}$$

$$V_x = 2500/4 = 625 \text{ Kg}$$

Dato che il tirante si ancora in fondazione con un'inclinazione di circa 60° rispetto all'orizzontale le forze appena indicate produrranno taglio e sforzo normale di trazione sull'elemento, per cui:

$$N_{Ed} = V_z \cos 30^\circ = 1407,3 \text{ Kg}$$

$$V_{Ed} = \sqrt{(V_z \sin 30^\circ)^2 + (V_x)^2} = 1025 \text{ Kg}$$

Lo sforzo normale resistente del collegamento è pari al minimo delle resistenze dei due meccanismi di rottura, ovvero:

- Sforzo Normale resistente del bullone lato acciaio: $V_{Rd} = (0,9 A_{res} f_u) / \gamma_{M2} = 90432 \text{ N} = 9218 \text{ Kg}$
- Sforzo Normale resistente per rottura conica del calcestruzzo: $N_{Rd} = N_{Rd,c} f_{b,N} f_{AN} f_{RN} = 1677 \text{ Kg}$

$N_{Rd} > N_{Ed} \rightarrow$ Verifica soddisfatta

Il taglio resistente del collegamento è pari al minimo delle resistenze a taglio dei tre meccanismi di rottura, ovvero:

- Taglio resistente del bullone lato acciaio: $V_{Rd} = (0,6 A_{res} f_u) / \gamma_{M2} = 60288 \text{ N} = 6145 \text{ Kg}$
- Taglio resistente per rottura del calcestruzzo: $V_{Rd} = N_{Rd,c} f_{b,v} f_{\beta,v} f_{AR,v} = 1178 \text{ Kg}$
- Taglio resistente per rifollamento angolare: $V_{Rd} = (K \alpha d t f_{tk}) / \gamma_{M2} = 11743 \text{ Kg}$

$V_{Rd} > V_{Ed} \rightarrow$ Verifica soddisfatta

VERIFICA PILASTRI IN ACCIAIO

Essendo la struttura in esame ad un piano non sarà necessario effettuare le verifiche di resistenza considerando la gerarchia pilastro- trave. I pilastri della struttura sono profili HE120B in acciaio S235 e dall'involuppo delle combinazioni impostate nel programma si hanno le seguenti sollecitazioni massime e minime:

Pilastro Sezione numero 6 HEB 120

Sforzo normale	Min asta 1520 3959	7384.9 [kg]	Comb. 3	Max asta 2297 4095	21511.5 [kg]	Comb. 1
Taglio piano 1-2	Min asta 1519 3945	-2.8 [kg]	Comb. 9	Max asta 1519 3945	2.9 [kg]	Comb. 14
Taglio piano 1-3	Min asta 1627 3977	-207.9 [kg]	Comb. 1	Max asta 2298 4109	206.9 [kg]	Comb. 1
Momento torcente	Min asta 2562 4186	-0.0 [kgm]	Comb. 14	Max asta 2562 4186	0.0 [kgm]	Comb. 9
Momento Flet. piano 1- 2	Min asta 1519 3945	-8.0 [kgm]	Comb. 9	Max asta 1519 3945	8.1 [kgm]	Comb. 14
Momento Flet. piano 1- 3	Min asta 2298 4109	-414.4 [kgm]	Comb. 1	Max asta 1627 3977	416.1 [kgm]	Comb. 1

Verifica a taglio

$$V_{Rd} = (2 A_{ala}) f_{yd} / \sqrt{3} = 252683 \text{ N} = 25757 \text{ Kg} > V_{ed} = 207,9 \text{ Kg} \rightarrow \text{Verifica soddisfatta}$$

Verifica Pressoflessione

$$M_{pl,Rd} = W_{pl,z} f_{yd} = 13423206 \text{ N mm} = 1368,32 \text{ Kg m}$$

$$N_{pl,Rd} = A f_{yd} = 563818 \text{ N} = 57474 \text{ Kg}$$

$$n = N_{ed,max} / N_{pl,Rd} = 0,374$$

$$M^*_{pl,Rd} = (1 - n) M_{pl,Rd} = 856,57 \text{ Kg m} > M_{ed} = 416,1 \text{ Kg m} \rightarrow \text{Verifica soddisfatta}$$

Verifica di Stabilità

$$\lambda' = L/i_z = 98,04$$

$$\lambda_p = \pi \sqrt{E/f_y k} = 93,87$$

$$\lambda^* = \lambda' / \lambda_p = 1,044$$

$$\varphi = 0,5 (1 + \alpha(\lambda^* - 0,2) + (\lambda^*)^2) = 1,188$$

$$\chi = [\varphi + (\varphi^2 - (\lambda^*)^2)^{0,5}]^{-1} = 0,57$$

$$N_{B,Rd} = \chi A f_{yd} = 32750 \text{ Kg} > N_{ed} = 21511,5 \text{ Kg} \rightarrow \text{Verifica soddisfatta}$$

VERIFICA TRAVI REP

La combinazione di calcolo che genera i massimi valori di sollecitazione sulle travi, come è possibile notare nella seguente tabella è la combinazione n.1, cioè la combinazione all'SLU.

Trave Sezione numero 7 Rett. REP

Sforzo normale	Min asta 4138 4139	0.0 [kg]	Comb. 1	Max asta 4138 4139	0.0 [kg]	Comb. 1
Taglio piano 1-2	Min asta 3944 3945	-10795.0 [kg]	Comb. 1	Max asta 4095 4096	10083.1 [kg]	Comb. 1
Taglio piano 1-3	Min asta 4168 4169	-0.0 [kg]	Comb. 1	Max asta 4156 4157	0.0 [kg]	Comb. 1
Momento torcente	Min asta 4108 4109	-0.8 [kgm]	Comb. 9	Max asta 4169 4095	0.8 [kgm]	Comb. 14
Momento Flet. piano 1-2	Min asta 3935 3936	-5664.6 [kgm]	Comb. 1	Max asta 3944 3945	8744.5 [kgm]	Comb. 1
Momento Flet. piano 1-3	Min asta 4161 4162	-0.0 [kgm]	Comb. 1	Max asta 4168 4169	0.0 [kgm]	Comb. 1

Verifica a Taglio

Questa verifica viene effettuata considerando nulli i contributi di resistenza a taglio della sezione in cemento armato. A favore di sicurezza quindi, il taglio resistente sarà solamente quello del piatto di base della trave REP, un piatto in acciaio S235 di sezione 300x5 mm.

$$V_{Rd} = A_{\text{piatto}} f_{yd} / \sqrt{3} = 143569 \text{ N} = 14635 \text{ Kg} > V_{ed} = 10795 \text{ Kg} \rightarrow \text{Verifica soddisfatta}$$

Verifica a Flessione

Si effettua la verifica a flessione della trave in relazione al momento massimo di 8744,5 Kg m. Le travi REP in esame in corrispondenza degli appoggi hanno la seguente armatura:

- Armatura superiore: 5 Φ 20 + 2 Φ 18 in acciaio FeB44k
- Armatura inferiore: di 5 Φ 20 in acciaio FeB44k
- Armatura inferiore: piatto in acciaio S235 di sezione 300x5 mm.

Ragionando per resistenza equivalente e considerando un'unica tipologia di acciaio (FeB44K), il piatto della trave rep ha un'area equivalente di 8,978 cm².

Titolo : VERIFICA TRAVE REP

N° figure elementari

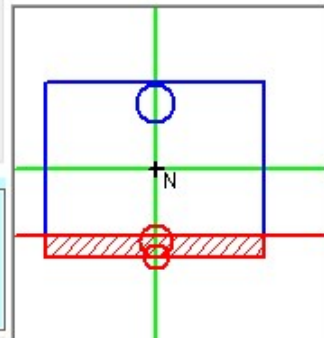
N° strati barre

N°	b [cm]	h [cm]
1	30	24

N°	As [cm²]	d [cm]
1	20,8	3
2	15,71	22
3	8,978	24

Tipo Sezione

- ☒ Rettan.re ☐ Trapezi
☐ a T ☐ Circolare
☐ Rettangoli ☐ Coord.



Sollecitazioni

S.L.U.

Metodo n

N _{Ed}	<input type="text" value="0"/>	<input type="text" value="0"/> kN
M _{xEd}	<input type="text" value="85,78"/>	<input type="text" value="0"/> kNm
M _{yEd}	<input type="text" value="0"/>	<input type="text" value="0"/>

P.to applicazione N

- ☒ Centro ☐ Baricentro cls
☐ Coord.[cm] xN yN

Tipo rottura

Lato calcestruzzo - Acciaio snervato

Metodo di calcolo

- ☐ S.L.U.+ ☒ S.L.U.-
☐ Metodo n

Tipo flessione

- ☒ Retta ☐ Deviata

N° rett.

L₀ cm

☐ Precompresso

Materiali

FeB44k

C28/35

ε _{su}	<input type="text" value="67,5"/> ‰	ε _{c2}	<input type="text" value="2"/> ‰
f _{yd}	<input type="text" value="277"/> N/mm²	ε _{cu}	<input type="text" value="3,5"/> ‰
E _s	<input type="text" value="200.000"/> N/mm²	f _{cd}	<input type="text" value="0,0117"/> ‰
E _s /E _c	<input type="text" value="15"/>	f _{cc} /f _{cd}	<input type="text" value="0,8"/> ?
ε _{syd}	<input type="text" value="1,385"/> ‰	σ _{c,adm}	<input type="text" value="11"/>
σ _{s,adm}	<input type="text" value="255"/> N/mm²	τ _{co}	<input type="text" value="0,6667"/>
		τ _{c1}	<input type="text" value="1,971"/>

M_{xRd} kN m

σ_c N/mm²

σ_s N/mm²

ε_c ‰

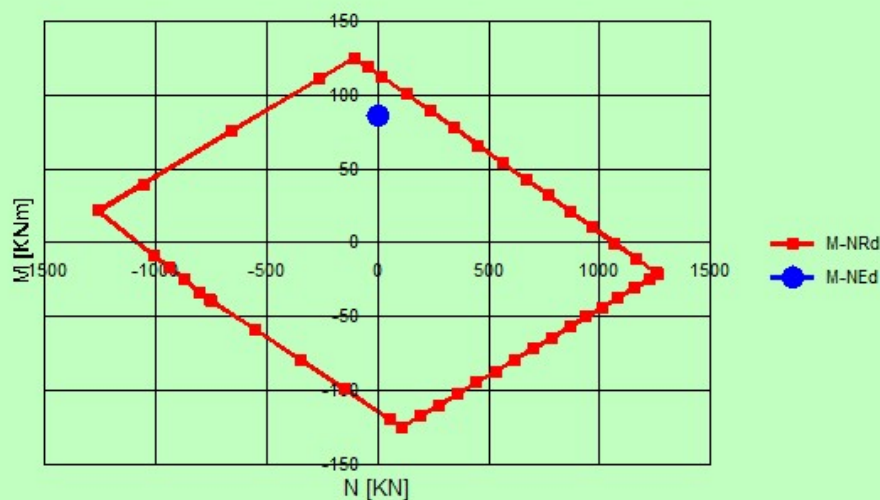
ε_s ‰

d cm

x x/d

δ

VERIFICA TRAVE REP



Sollecitazioni

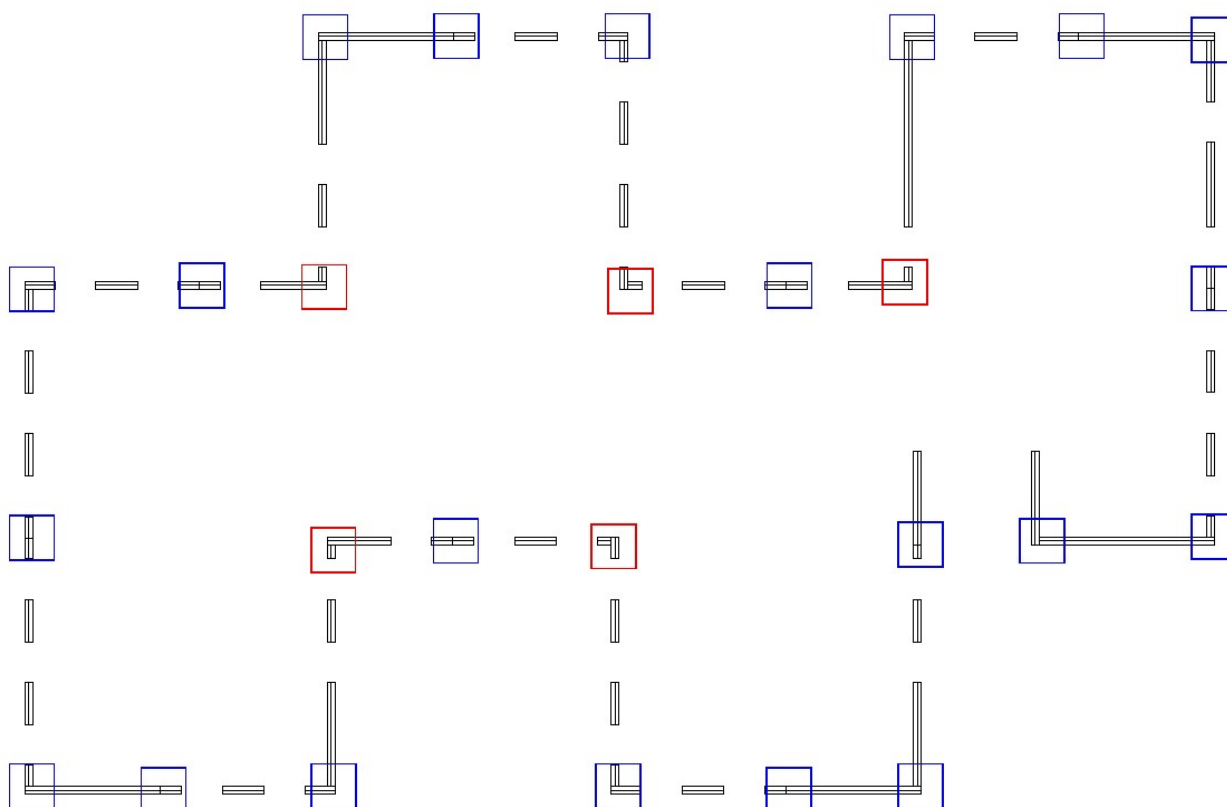
N.	N [kN]	M [kNm]
1	0	85,78

$M_{Rd} > M_{Ed} \rightarrow$ Verifica soddisfatta

VERIFICA DEI COLLEGAMENTI DEI PANNELLI IN SOMMITÀ'

I collegamenti in progetto alla sommità dei pannelli sono stati modellati con travi fittizie in acciaio di sezione 2x30 cm. Questi elementi trave sono rappresentativi in termini di rigidezza dell'intervento in sommità e generano interazione tra i pannelli, garantendo così il comportamento scatolare della struttura.

Dall'Output delle sollecitazioni su queste travi fittizie è possibile ricavare le sollecitazioni di progetto in maniera coerente con l'intervento in progetto. Tramite l'elaborazione dei dati output, per ogni tipologia di collegamento si sono ricavate le sollecitazioni in progetto, moltiplicando le sollecitazioni massime sulle travi per il numero di travi fittizie inserite del modello in ogni verticale di collegamento tra i pannelli.



I collegamenti nelle zone evidenziate in blu verranno progettati tenendo conto delle seguenti sollecitazioni:

- Sommatoria degli sforzi normali sulle travi fittizie: $N_{ed} = \pm 5000 \text{ Kg}$
- Sommatoria degli sforzi di taglio sulle travi fittizie: $V_{12ed} = \pm 13000 \text{ Kg}$
- Sommatoria degli sforzi di taglio sulle travi fittizie: $V_{13ed} = \pm 600 \text{ Kg}$

I collegamenti nelle zone evidenziate in rosso verranno progettati tenendo conto delle seguenti sollecitazioni:

- Sommatoria degli sforzi normali sulle travi fittizie: $N_{ed} = \pm 2100 \text{ Kg}$
- Sommatoria degli sforzi di taglio sulle travi fittizie: $V_{12ed} = \pm 12000 \text{ Kg}$
- Sommatoria degli sforzi di taglio sulle travi fittizie: $V_{13ed} = \pm 800 \text{ Kg}$

Verifica del collegamento n.1

Il collegamento in esame è costituito da due profili a L in acciaio S235 di altezza 50 cm. L'angolare interno è 150x150x10 mentre l'esterno è 350x350x10. I due profili sono collegati tra loro e ai pannelli da n.8 bulloni M12 classe 8,8.

Le sollecitazioni di taglio e di trazione sul singolo bullone saranno:

$$V_{Ed} = \frac{\sqrt{5500^2 + 1300^2}}{8} = 1764 \text{ Kg}$$

$$N_{Ed} = 5500/4 = 1375 \text{ kg}$$

$$V_{Rd} = (0,6 A_{res} f_u) / \gamma_{M2} = 3288 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica a taglio soddisfatta}$$

$$N_{Rd} = (0,9 A_{res} f_u) / \gamma_{M2} = 4949 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Si procede ora alla verifica a rifollamento:

$$V_{Rd} = (K \alpha d t f_{tk}) / \gamma_{M2} = 44841 \text{ N} = 4571 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Si effettua infine, la verifica a taglio sui profili nelle due direzioni:

$$V_{Ed1} = \frac{\sqrt{600^2 + 1300^2}}{2} = 6507 \text{ Kg}$$

$$V_{Ed2} = 5500/2 = 2500 \text{ Kg}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 646082 \text{ N} = 65860 \text{ Kg} > V_{Ed1} \rightarrow \text{Verifica soddisfatta}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 452258.6 \text{ N} = 46101 \text{ Kg} > V_{Ed2} \rightarrow \text{Verifica soddisfatta}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 193825 \text{ N} = 19758 \text{ Kg} > V_{Ed2} \rightarrow \text{Verifica soddisfatta}$$

Verifica del collegamento n.2

Il collegamento in esame è costituito da due profili a L in acciaio S235 di altezza 30 cm. L'angolare interno è 400x400x10 mentre l'esterno è 600x600x10. I due profili sono collegati tra loro e ai pannelli da n.8 bulloni M12 classe 8,8.

Le sollecitazioni di taglio e di trazione sul singolo bullone saranno:

$$V_{Ed} = \frac{\sqrt{5500^2 + 13000^2}}{8} = 1764 \text{ Kg}$$

$$N_{Ed} = 5500/4 = 1375 \text{ kg}$$

$$V_{Rd} = (0,6 A_{res} f_u) / \gamma_{M2} = 3288 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica a taglio soddisfatta}$$

$$N_{Rd} = (0,9 A_{res} f_u) / \gamma_{M2} = 4949 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Si procede ora alla verifica a rifollamento:

$$V_{Rd} = (K \alpha d t f_{tk}) / \gamma_{M2} = 44841 \text{ N} = 4571 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Si effettua infine, la verifica a taglio sui profili nelle due direzioni:

$$V_{Ed1} = \frac{\sqrt{600^2 + 13^2}}{2} = 6507 \text{ Kg}$$

$$V_{Ed2} = 5500/2 = 2500 \text{ Kg}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 387642 \text{ N} = 39515 \text{ Kg} > V_{Ed1} \rightarrow \text{Verifica soddisfatta}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 775300 \text{ N} = 79031 \text{ Kg} > V_{Ed2} \rightarrow \text{Verifica soddisfatta}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 516867 \text{ N} = 52688 \text{ Kg} > V_{Ed2} \rightarrow \text{Verifica soddisfatta}$$

Verifica del collegamento n.3

Il collegamento in esame è costituito da un profilo a L 600x600x10 in acciaio S235 di altezza 30 cm all'esterno dell'edificio e da due piatti 300x300x1 posizionati all'interno. Questi elementi sono collegati tra loro e ai pannelli da n.12 bulloni M12 classe 8,8.

Le sollecitazioni massime di taglio e di trazione sul singolo bullone saranno:

$$V_{Ed} = \frac{\sqrt{12000^2 + 2100^2}}{6} = 2030 \text{ Kg}$$

$$N_{Ed} = 2100/6 = 350 \text{ kg}$$

$$V_{Rd} = (0,6 A_{res} f_u) / \gamma_{M2} = 3288 \text{ Kg}$$

$$(V_{Ed} \div V_{Rd}) + (N_{Ed} \div 1,4 N_{Rd}) = 0,668 < 1 \rightarrow \text{Verifica soddisfatta}$$

$$N_{Rd} = (0,9 A_{res} f_u) / \gamma_{M2} = 4949 \text{ Kg}$$

$$(N_{Ed} \div N_{Rd}) = 0,071 < 1 \rightarrow \text{Verifica soddisfatta}$$

Si procede ora alla verifica a rifollamento:

$$V_{Rd} = (K \alpha d t f_{tk}) / \gamma_{M2} = 44841 \text{ N} = 4571 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Si effettua infine, la verifica a taglio e a sforzo normale sui profili e sul fazzoletto:

$$V_{Ed} = \sqrt{12000^2 + 2100^2} = 12182 \text{ Kg}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 387642 \text{ N} = 39515 \text{ Kg} > V_{Ed1} \rightarrow \text{Verifica soddisfatta}$$

$$N_{Ed} = \frac{(2100 \cdot 0,12 + 500 \cdot 0,6)}{0,3 \cdot \sqrt{2}/3} = 3943 \text{ Kg}$$

$$N_{Rd} = A f_{yd} = 31940,2 \text{ Kg} > N_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Verifica del collegamento n.4

Il collegamento in esame è costituito da due piatti a 600x300x10 in acciaio S235, posizionati internamente ed all'esterno dell'edificio. Questi elementi sono collegati tra loro e ai pannelli da n.8 bulloni M12 classe 8,8.

Le sollecitazioni massime di taglio e di trazione sul singolo bullone saranno:

$$V_{Ed} = \frac{\sqrt{13000^2 + 5500^2}}{8} = 1764,5 \text{ Kg}$$

$$N_{Ed} = 600/4 = 150 \text{ kg}$$

$$V_{Rd} = (0,6 A_{res} f_u) / \gamma_{M2} = 3288 \text{ Kg}$$

$$(V_{Ed} \div V_{Rd}) + (N_{Ed} \div 1,4 N_{Rd}) = 0,558 < 1 \rightarrow \text{Verifica soddisfatta}$$

$$N_{Rd} = (0,9 A_{res} f_u) / \gamma_{M2} = 4949 \text{ Kg}$$

$$(N_{Ed} \div N_{Rd}) = 0,03 < 1 \rightarrow \text{Verifica soddisfatta}$$

Si procede ora alla verifica a rifollamento:

$$V_{Rd} = (K \alpha d t f_{tk}) / \gamma_{M2} = 44841 \text{ N} = 4571 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Si effettua infine, la verifica a taglio e a sforzo normale sui piatti:

$$V_{Ed} = (\sqrt{13000^2 + 600^2}) / 2 = 6507 \text{ Kg}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 387642 \text{ N} = 39515 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica soddisfatta}$$

$$N_{Ed} = 5500 / 2 = 2250 \text{ Kg}$$

$$N_{Rd} = A f_{yd} = 68443 \text{ Kg} > N_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Verifica del collegamento n.5 e n.6

Il collegamento in esame è costituito da due L 600x600x10 in acciaio S235 di altezza 30 cm e da due piatti 300x300x10 in acciaio S235. Questi elementi sono collegati tra loro e ai pannelli da n.16 bulloni M12 classe 8,8.

Le sollecitazioni massime di taglio e di trazione sul singolo bullone nella condizione più gravosa saranno:

$$V_{Ed} = \frac{\sqrt{13000^2 + 5500^2}}{6} = 2353 \text{ Kg}$$

$$N_{Ed} = 5500/6 = 917 \text{ kg}$$

$$V_{Rd} = (0,6 A_{res} f_u) / \gamma_{M2} = 3288 \text{ Kg}$$

$$(V_{Ed} \div V_{Rd}) + (N_{Ed} \div 1,4 N_{Rd}) = 0,848 < 1 \rightarrow \text{Verifica soddisfatta}$$

$$N_{Rd} = (0,9 A_{res} f_u) / \gamma_{M2} = 4949 \text{ Kg}$$

$$(N_{Ed} \div N_{Rd}) = 0,185 < 1 \rightarrow \text{Verifica soddisfatta}$$

Si procede ora alla verifica a rifollamento:

$$V_{Rd} = (K \alpha d t f_{tk}) / \gamma_{M2} = (2,5 * 0,519 * 360 * 12 * 10) / 1,25 = 44841 \text{ N} = 4571 \text{ Kg} > V_{Ed} \rightarrow \text{Verifica soddisfatta}$$

Si effettua infine, la verifica a taglio e a sforzo normale sui profili:

Si effettua infine, la verifica a taglio e a sforzo normale sui profili e sul fazzoletto:

$$V_{Ed} = \sqrt{13000^2 + 5500^2} = 14115 \text{ Kg}$$

$$V_{Rd} = A f_{yd} / \sqrt{3} = 387642 \text{ N} = 39515 \text{ Kg} > V_{Ed1} \rightarrow \text{Verifica soddisfatta}$$

$$N_{Ed} = \frac{(5500 * 0,12 + 600 * 0,6)}{0,3 * \sqrt{2}/3} = 7212,5 \text{ Kg}$$

$$N_{Rd} = A f_{yd} = 31940,2 \text{ Kg} > N_{Ed} \rightarrow \text{Verifica soddisfatta}$$

A favore di sicurezza le verifiche eseguite per il collegamento n.5 valgono anche per il collegamento n.6.

San Benedetto del Tronto, li 13 febbraio 2017

Il tecnico