MAFRA
ARQUITETURA

MEMÓRIA DE CÁLCULO

CLIENTE: CORPO DE BOMBEIROS MILITAR DO DISTRITO FEDERAL

OBRA: ANEXO II DO QUARTEL DO COMANDO GERAL DO CORPO DE BOMBEIROS MILITAR DO DISTRITO FEDERAL

PASSARELA

REVISÃO 0

Eng. Civil Luiz Alberto Limonge de Almeida – CREA 19.882/D - MG

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1 - OBJETIVO

O objetivo desta Memória de Cálculo é o dimensionamento da Estrutura Metálica da Passarela do ANEXO II DO QUARTEL DO COMANDO GERAL DO CORPO DE BOMBEIROS MILITAR DO DISTRITO FEDERAL.

2 - NORMAS DE PROJETO

São utilizadas as seguintes Normas em suas últimas revisões:

- AISC - American Institute of Steel Construction (ASD).
- AISI – American Iron and Steel Institute.
- ASTM – American Society Testing Materials.
- AWS – American Welding Society.
- NBR-6120 – Cargas para o cálculo de estruturas de edificações.
- NBR-8800 - Projeto de estruturas de aço e de estrutura mista de aço e concreto de edifícios.
- NBR-6123 – Forças devidas ao vento em edificações.
- NBR 14762 – Dimensionamento de Estruturas de Aço Constituídas por Perfis Formados a Frio.

3 - MATERIAIS

Perfis de chapa dobrada - Aço ASTM A36.

Perfis Laminados e Chapas – Aço ASTM A36.

Perfis W – Aço ASTM A572 Gr. 50

Tubos Circulares – Aço ASTM A53 – Gr. B

Parafusos – ASTM A325 – Ligações Principais

ASTM A307 – Ligações Secundárias

Eletrodos – E70XX.

4 - CARREGAMENTOS

Telha Termoacústica = 12,0 Kgf/m^2

Instalações = 3,0 Kgf/ m^2

Sobrecarga = 25 Kgf/m^2

Vento

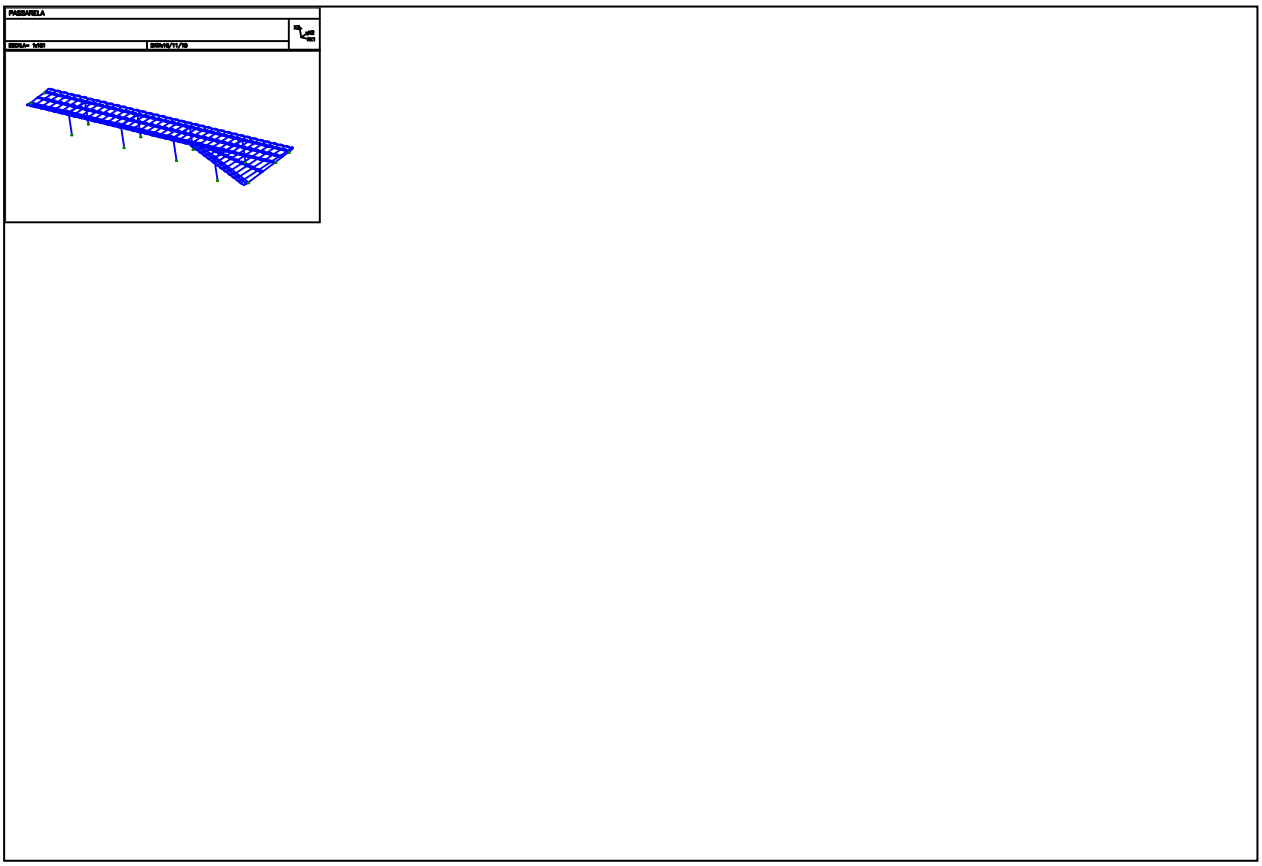
V_0 = 35 m / s

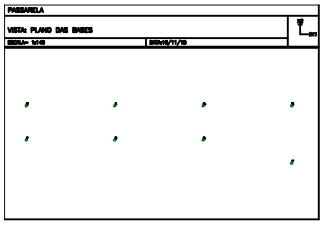
$S_1 = S_3 = 1,0$

Classe A ➔ Altura = 5,0 m ➔ Categoria III ➔ S_2 = 0,88

V_K = 30,8 m / s ➔ q = 59 Kgf/m^2 C_{PE} = -1,0

5 – DIMENSIONAMENTO





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COORDENADAS DE NÓS (unidades - metros)			
NÓ	*X1*	*X2*	*X3*
1	68.87880	11.18550	0.00000
2	68.87880	15.03560	0.00000
3	78.87880	11.18550	0.00000
4	78.87880	15.03560	0.00000
5	88.87880	11.18550	0.00000
6	88.87880	15.03560	0.00000
7	98.87880	8.56340	0.00000
8	98.87880	15.03560	0.00000
9	68.87880	11.18550	3.50000
10	88.87880	11.18550	3.50000
11	78.87880	11.18550	3.50000
12	88.87880	15.03560	3.50000
13	68.87880	15.12240	3.60000
14	68.87880	11.09870	3.60000
15	68.87880	11.41050	3.50000
16	68.87880	11.41050	3.60000
17	68.87880	14.81060	3.50000
18	68.87880	14.81060	3.60000
19	78.87880	15.12240	3.60000
20	78.87880	11.09870	3.60000
21	88.87880	15.12240	3.60000
22	88.87880	11.09870	3.60000
23	78.87880	14.81060	3.50000
24	78.87880	14.81060	3.60000
25	88.87880	14.81060	3.50000
26	88.87880	14.81060	3.60000
27	67.62880	15.12240	3.60000
28	67.62880	11.09870	3.60000
29	66.37880	15.12240	3.60000
30	66.37880	11.09870	3.60000
31	65.12880	15.12240	3.60000
32	65.12880	11.09870	3.60000
33	63.87880	15.12240	3.60000
34	63.87880	11.09870	3.60000
35	62.62880	11.09870	3.60000
36	62.62880	10.36050	3.70730
37	62.62880	15.12240	3.60000
38	62.62880	15.86060	3.70730
39	70.12880	15.12240	3.60000
40	70.12880	11.09870	3.60000
41	71.37880	15.12240	3.60000
42	71.37880	11.09870	3.60000
43	72.62880	15.12240	3.60000
44	72.62880	11.09870	3.60000
45	73.87880	15.12240	3.60000
46	73.87880	11.09870	3.60000

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COORDENADAS DE NÓS (unidades - metros)			
NÓ	*X1*	*X2*	*X3*
47	75.12880	15.12240	3.60000
48	75.12880	11.09870	3.60000
49	76.37880	15.12240	3.60000
50	76.37880	11.09870	3.60000
51	77.62880	15.12240	3.60000
52	77.62880	11.09870	3.60000
53	80.12880	15.12240	3.60000
54	80.12880	11.09870	3.60000
55	81.37880	15.12240	3.60000
56	81.37880	11.09870	3.60000
57	82.62880	15.12240	3.60000
58	82.62880	11.09870	3.60000
59	83.87880	15.12240	3.60000
60	83.87880	11.09870	3.60000
61	85.12880	15.12240	3.60000
62	85.12880	11.09870	3.60000
63	86.37880	15.12240	3.60000
64	86.37880	11.09870	3.60000
65	87.62880	15.12240	3.60000
66	87.62880	11.09870	3.60000
67	90.12880	15.12240	3.60000
68	90.12880	11.09870	3.60000
69	91.37880	15.12240	3.60000
70	91.37880	11.09870	3.60000
71	92.62880	15.12240	3.60000
72	92.62880	11.09870	3.60000
73	97.62880	15.12240	3.60000
74	97.62880	9.36030	3.60000
75	96.37880	15.12240	3.60000
76	96.37880	9.90950	3.60000
77	95.12880	15.12240	3.60000
78	95.12880	10.45870	3.60000
79	93.87880	15.12240	3.60000
80	93.87880	11.00800	3.60000
81	61.54380	11.41050	3.60000
82	108.29250	11.41050	3.60000
83	61.28790	14.81060	3.60000
84	108.02380	14.81060	3.60000
85	78.87880	15.03560	3.50000
86	98.87880	15.03560	3.50000
87	68.87880	15.03560	3.50000
88	98.87880	8.56340	3.50000
89	98.87880	14.81060	3.50000
90	98.87880	14.81060	3.60000
91	98.87880	15.12240	3.60000
92	98.87880	8.81110	3.60000

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COORDENADAS DE NÓS (unidades - metros)			
NÓ	*X1*	*X2*	*X3*
93	100.12880	15.12240	3.60000
94	100.12880	8.26180	3.60000
95	101.37880	15.12240	3.60000
96	101.37880	7.71260	3.60000
97	102.62880	15.12240	3.60000
98	102.62880	7.16340	3.60000
99	103.87880	15.12240	3.60000
100	103.87880	6.61420	3.60000
101	105.12880	15.12240	3.60000
102	105.12880	6.06500	3.60000
103	106.37880	15.12240	3.60000
104	106.37880	5.51570	3.60000
105	107.62880	15.12240	3.60000
106	107.62880	4.96650	3.60000
107	61.56730	11.09870	3.60000
108	61.26440	15.12240	3.60000
109	61.20880	15.86060	3.70730
110	63.87880	15.86060	3.70730
111	65.12880	15.86060	3.70730
112	66.37880	15.86060	3.70730
113	67.62880	15.86060	3.70730
114	68.87880	15.86060	3.70730
115	70.12880	15.86060	3.70730
116	71.37880	15.86060	3.70730
117	72.62880	15.86060	3.70730
118	73.87880	15.86060	3.70730
119	75.12880	15.86060	3.70730
120	76.37880	15.86060	3.70730
121	77.62880	15.86060	3.70730
122	78.87880	15.86060	3.70730
123	80.12880	15.86060	3.70730
124	81.37880	15.86060	3.70730
125	82.62880	15.86060	3.70730
126	83.87880	15.86060	3.70730
127	85.12880	15.86060	3.70730
128	86.37880	15.86060	3.70730
129	87.62880	15.86060	3.70730
130	88.87880	15.86060	3.70730
131	90.12880	15.86060	3.70730
132	91.37880	15.86060	3.70730
133	92.62880	15.86060	3.70730
134	93.87880	15.86060	3.70730
135	95.12880	15.86060	3.70730
136	96.37880	15.86060	3.70730
137	97.62880	15.86060	3.70730
138	98.87880	15.86060	3.70730
139	100.12880	15.86060	3.70730
140	101.37880	15.86060	3.70730
141	102.62880	15.86060	3.70730
142	103.87880	15.86060	3.70730
143	105.12880	15.86060	3.70730
144	106.37880	15.86060	3.70730
145	107.62880	15.86060	3.70730
146	61.62280	10.36050	3.70730
147	63.87880	10.36050	3.70730
148	65.12880	10.36050	3.70730
149	66.37880	10.36050	3.70730

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COORDENADAS DE NÓS (unidades - metros)			
NÓ	*X1*	*X2*	*X3*
150	67.62880	10.36050	3.70730
151	68.87880	10.36050	3.70730
152	70.12880	10.36050	3.70730
153	71.37880	10.36050	3.70730
154	72.62880	10.36050	3.70730
155	73.87880	10.36050	3.70730
156	75.12880	10.36050	3.70730
157	76.37880	10.36050	3.70730
158	77.62880	10.36050	3.70730
159	78.87880	10.36050	3.70730
160	80.12880	10.36050	3.70730
161	81.37880	10.36050	3.70730
162	82.62880	10.36050	3.70730
163	83.87880	10.36050	3.70730
164	85.12880	10.36050	3.70730
165	86.37880	10.36050	3.70730
166	87.62880	10.36050	3.70730
167	88.87880	10.36050	3.70730
168	90.12880	10.36050	3.70730
169	91.37880	10.36050	3.70730
170	92.62880	10.36050	3.70730
171	78.87880	11.41050	3.50000
172	78.87880	11.41050	3.60000
173	88.87880	11.41050	3.50000
174	88.87880	11.41050	3.60000
175	98.87880	11.41050	3.50000
176	98.87880	11.41050	3.60000
177	92.96270	11.41050	3.60000
178	108.84380	4.43270	3.60000
179	93.71000	10.62370	3.60000
180	93.45650	10.04670	3.70730
181	94.96000	10.07450	3.60000
182	94.70650	9.49740	3.70730
183	96.21000	9.52520	3.60000
184	95.95650	8.94820	3.70730
185	97.46000	8.97600	3.60000
186	97.20650	8.39900	3.70730
187	98.87880	8.81110	3.50000
188	98.71000	8.42680	3.60000
189	98.45650	7.84980	3.70730
190	99.96000	7.87760	3.60000
191	99.70650	7.30050	3.70730
192	101.21000	7.32830	3.60000
193	100.95650	6.75130	3.70730
194	102.46000	6.77910	3.60000
195	102.20650	6.20210	3.70730
196	103.71000	6.22990	3.60000
197	103.45650	5.65290	3.70730
198	104.96000	5.68070	3.60000
199	104.70650	5.10370	3.70730
200	106.21000	5.13140	3.60000
201	105.95650	4.55440	3.70730
202	107.46000	4.58220	3.60000
203	107.20650	4.00520	3.70730
204	107.99920	15.12240	3.60000
205	107.94090	15.86060	3.70730
206	108.93770	3.24450	3.70730
207	108.88140	3.95770	3.60000

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COORDENADAS DE NÓS (unidades - metros)			
NÓ	*X1*	*X2*	*X3*
208	108.15820	12.96060	3.60000
211	61.41580	13.26060	3.60000
212	92.74220	10.36050	3.70730
213	108.58050	7.76510	3.60000
214	93.67490	11.09760	3.60000
215	108.55580	8.07800	3.60000
216	93.65020	11.41050	3.60000
217	95.43930	11.01050	3.60000
218	108.32410	11.01050	3.60000
219	67.62880	11.41050	3.60000
220	67.62880	14.81060	3.60000
221	66.37880	11.41050	3.60000
222	66.37880	14.81060	3.60000
223	65.12880	11.41050	3.60000
224	65.12880	14.81060	3.60000
225	63.87880	11.41050	3.60000
226	63.87880	14.81060	3.60000
227	62.62880	11.41050	3.60000
228	62.62880	14.81060	3.60000
229	70.12880	12.96060	3.60000
230	70.12880	13.26060	3.60000
231	70.12880	14.81060	3.60000
232	71.37880	12.96060	3.60000
233	71.37880	13.26060	3.60000
234	71.37880	14.81060	3.60000
235	72.62880	12.96060	3.60000
236	72.62880	13.26060	3.60000
237	72.62880	14.81060	3.60000
238	73.87880	12.96060	3.60000
239	73.87880	13.26060	3.60000
240	73.87880	14.81060	3.60000
241	75.12880	12.96060	3.60000
242	75.12880	13.26060	3.60000
243	75.12880	14.81060	3.60000
244	76.37880	12.96060	3.60000
245	76.37880	13.26060	3.60000
246	76.37880	14.81060	3.60000
247	77.62880	12.96060	3.60000
248	77.62880	13.26060	3.60000
249	77.62880	14.81060	3.60000
250	80.12880	12.96060	3.60000
251	80.12880	13.26060	3.60000
252	80.12880	14.81060	3.60000
253	81.37880	12.96060	3.60000
254	81.37880	13.26060	3.60000
255	81.37880	14.81060	3.60000
256	82.62880	12.96060	3.60000
257	82.62880	13.26060	3.60000
258	82.62880	14.81060	3.60000
259	83.87880	12.96060	3.60000
260	83.87880	13.26060	3.60000
261	83.87880	14.81060	3.60000
262	85.12880	12.96060	3.60000
263	85.12880	13.26060	3.60000
264	85.12880	14.81060	3.60000
265	86.37880	12.96060	3.60000
266	86.37880	13.26060	3.60000

COORDENADAS DE NÓS (unidades - metros)			
NÓ	*X1*	*X2*	*X3*
267	86.37880	14.81060	3.60000
268	87.62880	12.96060	3.60000
269	87.62880	13.26060	3.60000
270	87.62880	14.81060	3.60000
271	90.12880	12.96060	3.60000
272	90.12880	13.26060	3.60000
273	90.12880	14.81060	3.60000
274	91.37880	12.96060	3.60000
275	91.37880	13.26060	3.60000
276	91.37880	14.81060	3.60000
277	92.62880	12.96060	3.60000
278	92.62880	13.26060	3.60000
279	92.62880	14.81060	3.60000
280	97.62880	12.96060	3.60000
281	97.62880	13.26060	3.60000
282	97.62880	14.81060	3.60000
283	96.37880	10.49310	3.60000
284	96.37880	10.80050	3.60000
285	96.37880	11.01050	3.60000
286	96.37880	11.41050	3.60000
287	96.37880	14.81060	3.60000
288	95.12880	11.41050	3.60000
289	95.12880	14.81060	3.60000
290	93.87880	11.41050	3.60000
291	93.87880	14.81060	3.60000
292	100.12880	12.96060	3.60000
293	100.12880	13.26060	3.60000
294	100.12880	14.81060	3.60000
295	101.37880	12.96060	3.60000
296	101.37880	13.26060	3.60000
297	101.37880	14.81060	3.60000
298	102.62880	12.96060	3.60000
299	102.62880	13.26060	3.60000
300	102.62880	14.81060	3.60000
301	103.87880	12.96060	3.60000
302	103.87880	13.26060	3.60000
303	103.87880	14.81060	3.60000
304	105.12880	12.96060	3.60000
305	105.12880	13.26060	3.60000
306	105.12880	14.81060	3.60000
307	106.37880	12.96060	3.60000
308	106.37880	13.26060	3.60000
309	106.37880	14.81060	3.60000
310	107.62880	12.96060	3.60000
311	107.62880	13.26060	3.60000
312	107.62880	14.81060	3.60000
313	108.14630	13.26060	3.60000
314	97.62880	10.21360	3.60000
315	100.12880	9.65470	3.60000
316	101.37880	9.37520	3.60000
317	102.62880	9.09570	3.60000
318	103.87880	8.81620	3.60000
319	105.12880	8.53680	3.60000
320	106.37880	8.25730	3.60000
321	107.62880	7.97790	3.60000
322	97.62880	10.52100	3.60000
323	100.12880	9.96210	3.60000
324	101.37880	9.68260	3.60000

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COORDENADAS DE NÓS (unidades - metros)			
NÓ	*X1*	*X2*	*X3*
325	102.62880	9.40310	3.60000
326	103.87880	9.12360	3.60000
327	105.12880	8.84410	3.60000
328	106.37880	8.56470	3.60000
329	107.62880	8.28520	3.60000
330	68.87880	12.96060	3.60000
331	68.87880	13.26060	3.60000
332	70.12880	11.41050	3.60000
333	78.87880	12.96060	3.60000
334	78.87880	13.26060	3.60000
335	88.87880	12.96060	3.60000
336	88.87880	13.26060	3.60000
337	67.62880	12.96060	3.60000
338	67.62880	13.26060	3.60000
339	66.37880	12.96060	3.60000
340	66.37880	13.26060	3.60000
341	65.12880	12.96060	3.60000
342	65.12880	13.26060	3.60000
343	63.87880	12.96060	3.60000
344	63.87880	13.26060	3.60000
345	62.62880	12.96060	3.60000
346	62.62880	13.26060	3.60000
347	71.37880	11.41050	3.60000
348	72.62880	11.41050	3.60000
349	73.87880	11.41050	3.60000
350	75.12880	11.41050	3.60000
351	76.37880	11.41050	3.60000
352	77.62880	11.41050	3.60000
353	80.12880	11.41050	3.60000
354	81.37880	11.41050	3.60000
355	82.62880	11.41050	3.60000
356	83.87880	11.41050	3.60000
357	85.12880	11.41050	3.60000
358	86.37880	11.41050	3.60000
359	87.62880	11.41050	3.60000
360	90.12880	11.41050	3.60000
361	91.37880	11.41050	3.60000
362	92.62880	11.41050	3.60000
363	97.62880	11.01050	3.60000
364	97.62880	11.41050	3.60000
365	96.37880	12.96060	3.60000
366	96.37880	13.26060	3.60000
367	95.12880	10.77260	3.60000
368	95.12880	11.07990	3.60000
369	95.12880	12.96060	3.60000
370	95.12880	13.26060	3.60000
371	93.87880	11.05200	3.60000
372	93.87880	11.35940	3.60000
373	93.87880	12.96060	3.60000
374	93.87880	13.26060	3.60000
375	61.42710	12.96060	3.60000
376	98.87880	12.96060	3.60000
377	98.87880	13.26060	3.60000
378	100.12880	11.41050	3.60000
379	101.37880	11.01050	3.60000
380	101.37880	11.41050	3.60000
381	102.62880	11.01050	3.60000

COORDENADAS DE NÓS (unidades - metros)			
NÓ	*X1*	*X2*	*X3*
382	102.62880	11.41050	3.60000
383	103.87880	11.01050	3.60000
384	103.87880	11.41050	3.60000
385	105.12880	11.01050	3.60000
386	105.12880	11.41050	3.60000
387	106.37880	11.01050	3.60000
388	106.37880	11.41050	3.60000
389	107.62880	11.01050	3.60000
390	107.62880	11.41050	3.60000
391	98.87880	9.93420	3.60000
392	98.87880	10.24160	3.60000
393	98.87880	11.01050	3.60000
394	100.12880	11.01050	3.60000

RESTRIÇÕES DE NÓS

NÓ	X1	X2	X3	X4	X5	X6
1	1	1	1	0	0	0
2	1	1	1	0	0	0
3	1	1	1	0	0	0
4	1	1	1	0	0	0
5	1	1	1	0	0	0
6	1	1	1	0	0	0
7	1	1	1	0	0	0
8	1	1	1	0	0	0
81	1	1	1	0	0	0
82	1	1	1	0	0	0
83	1	1	1	0	0	0
84	1	1	1	0	0	0
178	1	1	1	0	0	0

TABELA DE MATERIAIS (unidades - tf metros)

N.º	Nome	Módulo de Elasticidade	Coefic. Poisson	Densidade	Dilatação Térmica	Módulo Transv.(G)
1	STEE	0.2000E+08	0.300	0.7850E+01	0.00001200	0.7692E+07

TABELA DE PROPRIEDADES (unidades - cm.)

PROPRIEDADE N. 1

A=0.3830E+01 I2=0.3343E+02 I3=0.8632E+01 J=0.6463E-01 SF2=0.500
Material = 1 - STEE Perímetro=34.491 SF3=0.500
h2=4.000 h3=7.500 e2=2.499 e3=3.750
Ue# 75x40x15#2.25

PROPRIEDADE N. 2

A=0.1574E+02 I2=0.5965E+03 I3=0.8176E+02 J=0.1157E+01 SF2=0.369
Material = 1 - STEE Perímetro=68.740 SF3=0.519
h2=10.000 h3=14.800 e2=5.000 e3=7.400
W 150x13

PROPRIEDADE N. 3

A=0.3660E+02 I2=0.4046E+04 I3=0.1780E+03 J=0.1034E+02 SF2=0.439
Material = 1 - STEE Perímetro=91.520 SF3=0.467
h2=10.200 h3=26.000 e2=5.100 e3=13.000
W 250x28.4

PROPRIEDADE N. 4

A=0.3596E+02 I2=0.1170E+04 I3=0.1170E+04 J=0.2340E+04 SF2=0.530
Material = 1 - STEE Perímetro=52.873 SF3=0.530
h2=16.830 h3=16.830 e2=8.415 e3=8.415
Tubo 168.3x7.1

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INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	mv	mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
1	1	9	0				3.500	4	1	0.000	1.000	0.000	
2	2	87	0				3.500	4	1	0.000	1.000	0.000	
3	3	11	0				3.500	4	1	0.000	1.000	0.000	
4	4	85	0				3.500	4	1	0.000	1.000	0.000	
5	5	10	0				3.500	4	1	0.000	1.000	0.000	
6	6	12	0				3.500	4	1	0.000	1.000	0.000	
7	9	15	0				0.225	2	1	-1.000	0.000	0.000	
8	11	171	0				0.225	2	1	-1.000	0.000	0.000	
9	10	173	0				0.225	2	1	-1.000	0.000	0.000	
10	13	18	0				0.312	2	1	1.000	0.000	0.000	
11	15	16	0				0.100	2	1	0.000	1.000	0.000	
12	17	18	0				0.100	2	1	0.000	1.000	0.000	
13	19	24	0				0.312	2	1	1.000	0.000	0.000	
14	21	26	0				0.312	2	1	1.000	0.000	0.000	
15	23	24	0				0.100	2	1	0.000	1.000	0.000	
16	25	26	0				0.100	2	1	0.000	1.000	0.000	
17	27	220	0				0.312	2	1	1.000	0.000	0.000	
18	29	222	0				0.312	2	1	1.000	0.000	0.000	
19	31	224	0				0.312	2	1	1.000	0.000	0.000	
20	33	226	0				0.312	2	1	1.000	0.000	0.000	
21	35	36	0				0.746	2	1	1.000	0.000	0.000	
22	37	228	0				0.312	2	1	1.000	0.000	0.000	
23	37	38	0				0.746	2	1	-1.000	0.000	0.000	
24	39	231	0				0.312	2	1	1.000	0.000	0.000	
25	41	234	0				0.312	2	1	1.000	0.000	0.000	
26	43	237	0				0.312	2	1	1.000	0.000	0.000	
27	45	240	0				0.312	2	1	1.000	0.000	0.000	
28	47	243	0				0.312	2	1	1.000	0.000	0.000	
29	49	246	0				0.312	2	1	1.000	0.000	0.000	
30	51	249	0				0.312	2	1	1.000	0.000	0.000	
31	53	252	0				0.312	2	1	1.000	0.000	0.000	
32	55	255	0				0.312	2	1	1.000	0.000	0.000	
33	57	258	0				0.312	2	1	1.000	0.000	0.000	
34	59	261	0				0.312	2	1	1.000	0.000	0.000	
35	61	264	0				0.312	2	1	1.000	0.000	0.000	
36	63	267	0				0.312	2	1	1.000	0.000	0.000	
37	65	270	0				0.312	2	1	1.000	0.000	0.000	
38	67	273	0				0.312	2	1	1.000	0.000	0.000	
39	69	276	0				0.312	2	1	1.000	0.000	0.000	
40	71	279	0				0.312	2	1	1.000	0.000	0.000	
41	73	282	0				0.312	2	1	1.000	0.000	0.000	
42	75	287	0				0.312	2	1	1.000	0.000	0.000	
43	77	289	0				0.312	2	1	1.000	0.000	0.000	
44	79	291	0				0.312	2	1	1.000	0.000	0.000	
45	81	227	0				1.085	3	1	0.000	1.000	0.000	
46	83	228	0				1.341	3	1	0.000	1.000	0.000	
47	8	86	0				3.500	4	1	0.000	1.000	0.000	
48	7	88	0				3.500	4	1	0.000	1.000	0.000	
49	88	187	0				0.248	2	1	-1.000	0.000	0.000	
50	89	90	0				0.100	2	1	0.000	1.000	0.000	
51	91	90	0				0.312	2	1	1.000	0.000	0.000	
52	93	294	0				0.312	2	1	1.000	0.000	0.000	
53	95	297	0				0.312	2	1	1.000	0.000	0.000	
54	97	300	0				0.312	2	1	1.000	0.000	0.000	
55	99	303	0				0.312	2	1	1.000	0.000	0.000	
56	101	306	0				0.312	2	1	1.000	0.000	0.000	
57	103	309	0				0.312	2	1	1.000	0.000	0.000	

MAFRA
ARQUITETURA

INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	mv	mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
58	105	312	0				0.312	2	1	1.000	0.000	0.000	
59	107	81	0				0.313	2	1	-0.997	-0.075	0.000	
60	108	109	0				0.748	2	1	-0.997	-0.075	0.000	
61	33	110	0				0.746	2	1	-1.000	0.000	0.000	
62	31	111	0				0.746	2	1	-1.000	0.000	0.000	
63	29	112	0				0.746	2	1	-1.000	0.000	0.000	
64	27	113	0				0.746	2	1	-1.000	0.000	0.000	
65	13	114	0				0.746	2	1	-1.000	0.000	0.000	
66	39	115	0				0.746	2	1	-1.000	0.000	0.000	
67	41	116	0				0.746	2	1	-1.000	0.000	0.000	
68	43	117	0				0.746	2	1	-1.000	0.000	0.000	
69	45	118	0				0.746	2	1	-1.000	0.000	0.000	
70	47	119	0				0.746	2	1	-1.000	0.000	0.000	
71	49	120	0				0.746	2	1	-1.000	0.000	0.000	
72	51	121	0				0.746	2	1	-1.000	0.000	0.000	
73	19	122	0				0.746	2	1	-1.000	0.000	0.000	
74	53	123	0				0.746	2	1	-1.000	0.000	0.000	
75	55	124	0				0.746	2	1	-1.000	0.000	0.000	
76	57	125	0				0.746	2	1	-1.000	0.000	0.000	
77	59	126	0				0.746	2	1	-1.000	0.000	0.000	
78	61	127	0				0.746	2	1	-1.000	0.000	0.000	
79	63	128	0				0.746	2	1	-1.000	0.000	0.000	
80	65	129	0				0.746	2	1	-1.000	0.000	0.000	
81	21	130	0				0.746	2	1	-1.000	0.000	0.000	
82	67	131	0				0.746	2	1	-1.000	0.000	0.000	
83	69	132	0				0.746	2	1	-1.000	0.000	0.000	
84	71	133	0				0.746	2	1	-1.000	0.000	0.000	
85	79	134	0				0.746	2	1	-1.000	0.000	0.000	
86	77	135	0				0.746	2	1	-1.000	0.000	0.000	
87	75	136	0				0.746	2	1	-1.000	0.000	0.000	
88	73	137	0				0.746	2	1	-1.000	0.000	0.000	
89	91	138	0				0.746	2	1	-1.000	0.000	0.000	
90	93	139	0				0.746	2	1	-1.000	0.000	0.000	
91	95	140	0				0.746	2	1	-1.000	0.000	0.000	
92	97	141	0				0.746	2	1	-1.000	0.000	0.000	
93	99	142	0				0.746	2	1	-1.000	0.000	0.000	
94	101	143	0				0.746	2	1	-1.000	0.000	0.000	
95	103	144	0				0.746	2	1	-1.000	0.000	0.000	
96	105	145	0				0.746	2	1	-1.000	0.000	0.000	
97	146	107	0				0.748	2	1	-0.997	-0.075	0.000	
98	34	147	0				0.746	2	1	1.000	0.000	0.000	
99	32	148	0				0.746	2	1	1.000	0.000	0.000	
100	30	149	0				0.746	2	1	1.000	0.000	0.000	
101	28	150	0				0.746	2	1	1.000	0.000	0.000	
102	14	151	0				0.746	2	1	1.000	0.000	0.000	
103	40	152	0				0.746	2	1	1.000	0.000	0.000	
104	42	153	0				0.746	2	1	1.000	0.000	0.000	
105	44	154	0				0.746	2	1	1.000	0.000	0.000	
106	46	155	0				0.746	2	1	1.000	0.000	0.000	
107	48	156	0				0.746	2	1	1.000	0.000	0.000	
108	50	157	0				0.746	2	1	1.000	0.000	0.000	
109	52	158	0				0.746	2	1	1.000	0.000	0.000	
110	20	159	0				0.746	2	1	1.000	0.000	0.000	
111	54	160	0				0.746	2	1	1.000	0.000	0.000	
112	56	161	0				0.746	2	1	1.000	0.000	0.000	
113	58	162	0				0.746	2	1	1.000	0.000	0.000	

INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
114	60	163	0				0.746	2	1	1.000	0.000	0.000	
115	62	164	0				0.746	2	1	1.000	0.000	0.000	
116	64	165	0				0.746	2	1	1.000	0.000	0.000	
117	66	166	0				0.746	2	1	1.000	0.000	0.000	
118	22	167	0				0.746	2	1	1.000	0.000	0.000	
119	68	168	0				0.746	2	1	1.000	0.000	0.000	
120	70	169	0				0.746	2	1	1.000	0.000	0.000	
121	72	170	0				0.746	2	1	1.000	0.000	0.000	
122	171	172	0				0.100	2	1	0.000	1.000	0.000	
123	173	174	0				0.100	2	1	0.000	1.000	0.000	
124	175	176	0				0.100	2	1	0.000	1.000	0.000	
125	177	214	0		y		0.778	3	1	0.402	0.916	0.000	
126	80	179	0				0.420	2	1	0.916	-0.402	0.000	
127	179	180	0				0.639	2	1	0.916	-0.402	0.000	
128	78	181	0				0.420	2	1	0.916	-0.402	0.000	
129	181	182	0				0.639	2	1	0.916	-0.402	0.000	
130	76	183	0				0.420	2	1	0.916	-0.402	0.000	
131	183	184	0				0.639	2	1	0.916	-0.402	0.000	
132	74	185	0				0.420	2	1	0.916	-0.402	0.000	
133	185	186	0				0.639	2	1	0.916	-0.402	0.000	
134	187	92	0				0.100	2	1	0.000	1.000	0.000	
135	92	188	0				0.420	2	1	0.916	-0.402	0.000	
136	188	189	0				0.639	2	1	0.916	-0.402	0.000	
137	94	190	0				0.420	2	1	0.916	-0.402	0.000	
138	190	191	0				0.639	2	1	0.916	-0.402	0.000	
139	96	192	0				0.420	2	1	0.916	-0.402	0.000	
140	192	193	0				0.639	2	1	0.916	-0.402	0.000	
141	98	194	0				0.420	2	1	0.916	-0.402	0.000	
142	194	195	0				0.639	2	1	0.916	-0.402	0.000	
143	100	196	0				0.420	2	1	0.916	-0.402	0.000	
144	196	197	0				0.639	2	1	0.916	-0.402	0.000	
145	102	198	0				0.420	2	1	0.916	-0.402	0.000	
146	198	199	0				0.639	2	1	0.916	-0.402	0.000	
147	104	200	0				0.420	2	1	0.916	-0.402	0.000	
148	200	201	0				0.639	2	1	0.916	-0.402	0.000	
149	106	202	0				0.420	2	1	0.916	-0.402	0.000	
150	202	203	0				0.639	2	1	0.916	-0.402	0.000	
151	204	205	0				0.748	2	1	-0.997	-0.079	0.000	
152	204	84	0				0.313	2	1	0.997	0.079	0.000	
153	206	207	0				0.723	2	1	-0.997	-0.079	0.000	
154	207	178	0				0.476	2	1	-0.997	-0.079	0.000	
155	178	213	0				3.343	2	1	-0.997	-0.079	0.000	
156	208	310	0				0.529	1	1	0.000	-1.000	0.000	
158	146	36	0		y	y	1.006	1	1	0.000	1.000	0.000	
159	212	180	0			y	0.780	1	1	0.402	0.916	0.000	
160	207	202	0		y	y	1.553	1	1	-0.402	-0.916	0.000	
161	107	35	0		y	y	1.062	1	1	0.000	1.000	0.000	
162	205	145	0		y	y	0.312	1	1	0.000	-1.000	0.000	
163	108	37	0		y	y	1.364	1	1	0.000	1.000	0.000	
164	213	321	0		y	y	0.975	1	1	-0.218	-0.976	0.000	
165	215	329	0		y	y	0.950	1	1	-0.218	-0.976	0.000	
166	217	285	0		y	y	0.939	1	1	0.000	1.000	0.000	
167	15	17	0				3.400	2	1	-1.000	0.000	0.000	
168	23	85	0				0.225	2	1	-1.000	0.000	0.000	
169	171	23	0				3.400	2	1	-1.000	0.000	0.000	
170	25	12	0				0.225	2	1	-1.000	0.000	0.000	

MAFRA
ARQUITETURA

INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	mv	mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
171	173	25	0				3.400	2	1	-1.000	0.000	0.000	
172	16	14	0				0.312	2	1	1.000	0.000	0.000	
173	18	331	0				1.550	2	1	1.000	0.000	0.000	
174	18	231	0		y		1.250	3	1	0.000	1.000	0.000	
175	13	39	0		y	y	1.250	1	1	0.000	1.000	0.000	
176	16	332	0		y		1.250	3	1	0.000	1.000	0.000	
177	17	87	0				0.225	2	1	-1.000	0.000	0.000	
178	24	334	0				1.550	2	1	1.000	0.000	0.000	
179	24	252	0		y		1.250	3	1	0.000	1.000	0.000	
180	19	53	0		y	y	1.250	1	1	0.000	1.000	0.000	
181	26	336	0				1.550	2	1	1.000	0.000	0.000	
182	26	273	0		y		1.250	3	1	0.000	1.000	0.000	
183	21	67	0		y	y	1.250	1	1	0.000	1.000	0.000	
184	219	28	0				0.312	2	1	1.000	0.000	0.000	
185	219	16	0			y	1.250	3	1	0.000	1.000	0.000	
186	220	338	0				1.550	2	1	1.000	0.000	0.000	
187	220	18	0			y	1.250	3	1	0.000	1.000	0.000	
188	27	13	0		y	y	1.250	1	1	0.000	1.000	0.000	
189	221	30	0				0.312	2	1	1.000	0.000	0.000	
190	221	219	0				1.250	3	1	0.000	1.000	0.000	
191	222	340	0				1.550	2	1	1.000	0.000	0.000	
192	222	220	0				1.250	3	1	0.000	1.000	0.000	
193	29	27	0		y	y	1.250	1	1	0.000	1.000	0.000	
194	223	32	0				0.312	2	1	1.000	0.000	0.000	
195	223	221	0				1.250	3	1	0.000	1.000	0.000	
196	224	342	0				1.550	2	1	1.000	0.000	0.000	
197	224	222	0				1.250	3	1	0.000	1.000	0.000	
198	31	29	0		y	y	1.250	1	1	0.000	1.000	0.000	
199	225	34	0				0.312	2	1	1.000	0.000	0.000	
200	225	223	0				1.250	3	1	0.000	1.000	0.000	
201	226	344	0				1.550	2	1	1.000	0.000	0.000	
202	226	224	0				1.250	3	1	0.000	1.000	0.000	
203	33	31	0		y	y	1.250	1	1	0.000	1.000	0.000	
204	36	147	0		y	y	1.250	1	1	0.000	1.000	0.000	
205	35	34	0		y	y	1.250	1	1	0.000	1.000	0.000	
206	227	35	0				0.312	2	1	1.000	0.000	0.000	
207	227	225	0				1.250	3	1	0.000	1.000	0.000	
208	228	346	0				1.550	2	1	1.000	0.000	0.000	
209	228	226	0				1.250	3	1	0.000	1.000	0.000	
210	37	33	0		y	y	1.250	1	1	0.000	1.000	0.000	
211	38	109	0		y	y	1.420	1	1	0.000	-1.000	0.000	
212	229	332	0				1.550	2	1	1.000	0.000	0.000	
213	229	330	0		y	y	1.250	1	1	0.000	-1.000	0.000	
214	230	229	0				0.300	2	1	1.000	0.000	0.000	
215	230	331	0		y	y	1.250	1	1	0.000	-1.000	0.000	
216	231	230	0				1.550	2	1	1.000	0.000	0.000	
217	231	234	0				1.250	3	1	0.000	1.000	0.000	
218	39	41	0		y	y	1.250	1	1	0.000	1.000	0.000	
219	232	347	0				1.550	2	1	1.000	0.000	0.000	
220	232	229	0		y	y	1.250	1	1	0.000	-1.000	0.000	
221	233	232	0				0.300	2	1	1.000	0.000	0.000	
222	233	230	0		y	y	1.250	1	1	0.000	-1.000	0.000	
223	234	233	0				1.550	2	1	1.000	0.000	0.000	
224	234	237	0				1.250	3	1	0.000	1.000	0.000	
225	41	43	0		y	y	1.250	1	1	0.000	1.000	0.000	
226	235	348	0				1.550	2	1	1.000	0.000	0.000	

INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
227	235	232	0		y	y	1.250	1	1	0.000	-1.000	0.000	
228	236	235	0				0.300	2	1	1.000	0.000	0.000	
229	236	233	0		y	y	1.250	1	1	0.000	-1.000	0.000	
230	237	236	0				1.550	2	1	1.000	0.000	0.000	
231	237	240	0				1.250	3	1	0.000	1.000	0.000	
232	43	45	0		y	y	1.250	1	1	0.000	1.000	0.000	
233	238	349	0				1.550	2	1	1.000	0.000	0.000	
234	238	235	0		y	y	1.250	1	1	0.000	-1.000	0.000	
235	239	238	0				0.300	2	1	1.000	0.000	0.000	
236	239	236	0		y	y	1.250	1	1	0.000	-1.000	0.000	
237	240	239	0				1.550	2	1	1.000	0.000	0.000	
238	240	243	0				1.250	3	1	0.000	1.000	0.000	
239	45	47	0		y	y	1.250	1	1	0.000	1.000	0.000	
240	241	350	0				1.550	2	1	1.000	0.000	0.000	
241	241	238	0		y	y	1.250	1	1	0.000	-1.000	0.000	
242	242	241	0				0.300	2	1	1.000	0.000	0.000	
243	242	239	0		y	y	1.250	1	1	0.000	-1.000	0.000	
244	243	242	0				1.550	2	1	1.000	0.000	0.000	
245	243	246	0				1.250	3	1	0.000	1.000	0.000	
246	47	49	0		y	y	1.250	1	1	0.000	1.000	0.000	
247	244	351	0				1.550	2	1	1.000	0.000	0.000	
248	244	241	0		y	y	1.250	1	1	0.000	-1.000	0.000	
249	245	244	0				0.300	2	1	1.000	0.000	0.000	
250	245	242	0		y	y	1.250	1	1	0.000	-1.000	0.000	
251	246	245	0				1.550	2	1	1.000	0.000	0.000	
252	246	249	0				1.250	3	1	0.000	1.000	0.000	
253	49	51	0		y	y	1.250	1	1	0.000	1.000	0.000	
254	247	352	0				1.550	2	1	1.000	0.000	0.000	
255	247	244	0		y	y	1.250	1	1	0.000	-1.000	0.000	
256	248	247	0				0.300	2	1	1.000	0.000	0.000	
257	248	245	0		y	y	1.250	1	1	0.000	-1.000	0.000	
258	249	248	0				1.550	2	1	1.000	0.000	0.000	
259	249	24	0			y	1.250	3	1	0.000	1.000	0.000	
260	51	19	0		y	y	1.250	1	1	0.000	1.000	0.000	
261	250	353	0				1.550	2	1	1.000	0.000	0.000	
262	250	333	0		y	y	1.250	1	1	0.000	-1.000	0.000	
263	251	250	0				0.300	2	1	1.000	0.000	0.000	
264	251	334	0		y	y	1.250	1	1	0.000	-1.000	0.000	
265	252	251	0				1.550	2	1	1.000	0.000	0.000	
266	252	255	0				1.250	3	1	0.000	1.000	0.000	
267	53	55	0		y	y	1.250	1	1	0.000	1.000	0.000	
268	253	354	0				1.550	2	1	1.000	0.000	0.000	
269	253	250	0		y	y	1.250	1	1	0.000	-1.000	0.000	
270	254	253	0				0.300	2	1	1.000	0.000	0.000	
271	254	251	0		y	y	1.250	1	1	0.000	-1.000	0.000	
272	255	254	0				1.550	2	1	1.000	0.000	0.000	
273	255	258	0				1.250	3	1	0.000	1.000	0.000	
274	55	57	0		y	y	1.250	1	1	0.000	1.000	0.000	
275	256	355	0				1.550	2	1	1.000	0.000	0.000	
276	256	253	0		y	y	1.250	1	1	0.000	-1.000	0.000	
277	257	256	0				0.300	2	1	1.000	0.000	0.000	
278	257	254	0		y	y	1.250	1	1	0.000	-1.000	0.000	
279	258	257	0				1.550	2	1	1.000	0.000	0.000	
280	258	261	0				1.250	3	1	0.000	1.000	0.000	
281	57	59	0		y	y	1.250	1	1	0.000	1.000	0.000	
282	259	356	0				1.550	2	1	1.000	0.000	0.000	

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INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	mv	mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
283	259	256	0		y	y	1.250	1	1	0.000	-1.000	0.000	
284	260	259	0				0.300	2	1	1.000	0.000	0.000	
285	260	257	0		y	y	1.250	1	1	0.000	-1.000	0.000	
286	261	260	0				1.550	2	1	1.000	0.000	0.000	
287	261	264	0				1.250	3	1	0.000	1.000	0.000	
288	59	61	0		y	y	1.250	1	1	0.000	1.000	0.000	
289	262	357	0				1.550	2	1	1.000	0.000	0.000	
290	262	259	0		y	y	1.250	1	1	0.000	-1.000	0.000	
291	263	262	0				0.300	2	1	1.000	0.000	0.000	
292	263	260	0		y	y	1.250	1	1	0.000	-1.000	0.000	
293	264	263	0				1.550	2	1	1.000	0.000	0.000	
294	264	267	0				1.250	3	1	0.000	1.000	0.000	
295	61	63	0		y	y	1.250	1	1	0.000	1.000	0.000	
296	265	358	0				1.550	2	1	1.000	0.000	0.000	
297	265	262	0		y	y	1.250	1	1	0.000	-1.000	0.000	
298	266	265	0				0.300	2	1	1.000	0.000	0.000	
299	266	263	0		y	y	1.250	1	1	0.000	-1.000	0.000	
300	267	266	0				1.550	2	1	1.000	0.000	0.000	
301	267	270	0				1.250	3	1	0.000	1.000	0.000	
302	63	65	0		y	y	1.250	1	1	0.000	1.000	0.000	
303	268	359	0				1.550	2	1	1.000	0.000	0.000	
304	268	265	0		y	y	1.250	1	1	0.000	-1.000	0.000	
305	269	268	0				0.300	2	1	1.000	0.000	0.000	
306	269	266	0		y	y	1.250	1	1	0.000	-1.000	0.000	
307	270	269	0				1.550	2	1	1.000	0.000	0.000	
308	270	26	0			y	1.250	3	1	0.000	1.000	0.000	
309	65	21	0		y	y	1.250	1	1	0.000	1.000	0.000	
310	271	360	0				1.550	2	1	1.000	0.000	0.000	
311	271	335	0		y	y	1.250	1	1	0.000	-1.000	0.000	
312	272	271	0				0.300	2	1	1.000	0.000	0.000	
313	272	336	0		y	y	1.250	1	1	0.000	-1.000	0.000	
314	273	272	0				1.550	2	1	1.000	0.000	0.000	
315	273	276	0				1.250	3	1	0.000	1.000	0.000	
316	67	69	0		y	y	1.250	1	1	0.000	1.000	0.000	
317	274	361	0				1.550	2	1	1.000	0.000	0.000	
318	274	271	0		y	y	1.250	1	1	0.000	-1.000	0.000	
319	275	274	0				0.300	2	1	1.000	0.000	0.000	
320	275	272	0		y	y	1.250	1	1	0.000	-1.000	0.000	
321	276	275	0				1.550	2	1	1.000	0.000	0.000	
322	276	279	0				1.250	3	1	0.000	1.000	0.000	
323	69	71	0		y	y	1.250	1	1	0.000	1.000	0.000	
324	277	362	0				1.550	2	1	1.000	0.000	0.000	
325	277	274	0		y	y	1.250	1	1	0.000	-1.000	0.000	
326	278	277	0				0.300	2	1	1.000	0.000	0.000	
327	278	275	0		y	y	1.250	1	1	0.000	-1.000	0.000	
328	279	278	0				1.550	2	1	1.000	0.000	0.000	
329	279	291	0				1.250	3	1	0.000	1.000	0.000	
330	71	79	0		y	y	1.250	1	1	0.000	1.000	0.000	
331	74	92	0			y	1.365	3	1	0.402	0.916	0.000	
332	280	364	0				1.550	2	1	1.000	0.000	0.000	
333	280	365	0		y	y	1.250	1	1	0.000	-1.000	0.000	
334	281	280	0				0.300	2	1	1.000	0.000	0.000	
335	281	366	0		y	y	1.250	1	1	0.000	-1.000	0.000	
336	282	281	0				1.550	2	1	1.000	0.000	0.000	
337	282	90	0			y	1.250	3	1	0.000	1.000	0.000	
338	73	91	0		y	y	1.250	1	1	0.000	1.000	0.000	

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Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
339	76	74	0				1.365	3	1	0.402	0.916	0.000	
340	283	76	0				0.584	2	1	1.000	0.000	0.000	
341	283	367	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
342	284	283	0				0.307	2	1	1.000	0.000	0.000	
343	284	217	0		y		0.963	1	1	-0.218	-0.976	0.000	
344	285	284	0				0.210	2	1	1.000	0.000	0.000	
345	285	363	0		y	y	1.250	1	1	0.000	1.000	0.000	
346	286	285	0				0.400	2	1	1.000	0.000	0.000	
347	286	364	0				1.250	3	1	0.000	1.000	0.000	
348	287	366	0				1.550	2	1	1.000	0.000	0.000	
349	287	282	0				1.250	3	1	0.000	1.000	0.000	
350	75	73	0		y	y	1.250	1	1	0.000	1.000	0.000	
351	78	76	0				1.365	3	1	0.402	0.916	0.000	
352	288	368	0				0.331	2	1	1.000	0.000	0.000	
353	288	286	0				1.250	3	1	0.000	1.000	0.000	
354	289	370	0				1.550	2	1	1.000	0.000	0.000	
355	289	287	0				1.250	3	1	0.000	1.000	0.000	
356	77	75	0		y	y	1.250	1	1	0.000	1.000	0.000	
357	80	78	0				1.365	3	1	0.402	0.916	0.000	
358	290	372	0				0.051	2	1	1.000	0.000	0.000	
359	290	288	0				1.250	3	1	0.000	1.000	0.000	
360	291	374	0				1.550	2	1	1.000	0.000	0.000	
361	291	289	0				1.250	3	1	0.000	1.000	0.000	
362	79	77	0		y	y	1.250	1	1	0.000	1.000	0.000	
363	81	375	0				1.554	2	1	-0.997	-0.075	0.000	
364	83	108	0				0.313	2	1	-0.997	-0.075	0.000	
365	89	86	0				0.225	2	1	-1.000	0.000	0.000	
366	175	89	0				3.400	2	1	-1.000	0.000	0.000	
367	187	175	0				2.599	2	1	-1.000	0.000	0.000	
368	90	377	0				1.550	2	1	1.000	0.000	0.000	
369	90	294	0		y		1.250	3	1	0.000	1.000	0.000	
370	91	93	0		y	y	1.250	1	1	0.000	1.000	0.000	
371	292	378	0				1.550	2	1	1.000	0.000	0.000	
372	292	376	0		y	y	1.250	1	1	0.000	-1.000	0.000	
373	293	292	0				0.300	2	1	1.000	0.000	0.000	
374	293	377	0		y	y	1.250	1	1	0.000	-1.000	0.000	
375	294	293	0				1.550	2	1	1.000	0.000	0.000	
376	294	297	0				1.250	3	1	0.000	1.000	0.000	
377	93	95	0		y	y	1.250	1	1	0.000	1.000	0.000	
378	295	380	0				1.550	2	1	1.000	0.000	0.000	
379	295	292	0		y	y	1.250	1	1	0.000	-1.000	0.000	
380	296	295	0				0.300	2	1	1.000	0.000	0.000	
381	296	293	0		y	y	1.250	1	1	0.000	-1.000	0.000	
382	297	296	0				1.550	2	1	1.000	0.000	0.000	
383	297	300	0				1.250	3	1	0.000	1.000	0.000	
384	95	97	0		y	y	1.250	1	1	0.000	1.000	0.000	
385	298	382	0				1.550	2	1	1.000	0.000	0.000	
386	298	295	0		y	y	1.250	1	1	0.000	-1.000	0.000	
387	299	298	0				0.300	2	1	1.000	0.000	0.000	
388	299	296	0		y	y	1.250	1	1	0.000	-1.000	0.000	
389	300	299	0				1.550	2	1	1.000	0.000	0.000	
390	300	303	0				1.250	3	1	0.000	1.000	0.000	
391	97	99	0		y	y	1.250	1	1	0.000	1.000	0.000	
392	301	384	0				1.550	2	1	1.000	0.000	0.000	
393	301	298	0		y	y	1.250	1	1	0.000	-1.000	0.000	
394	302	301	0				0.300	2	1	1.000	0.000	0.000	

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INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
395	302	299	0		y	y	1.250	1	1	0.000	-1.000	0.000	
396	303	302	0				1.550	2	1	1.000	0.000	0.000	
397	303	306	0				1.250	3	1	0.000	1.000	0.000	
398	99	101	0		y	y	1.250	1	1	0.000	1.000	0.000	
399	304	386	0				1.550	2	1	1.000	0.000	0.000	
400	304	301	0		y	y	1.250	1	1	0.000	-1.000	0.000	
401	305	304	0				0.300	2	1	1.000	0.000	0.000	
402	305	302	0		y	y	1.250	1	1	0.000	-1.000	0.000	
403	306	305	0				1.550	2	1	1.000	0.000	0.000	
404	306	309	0				1.250	3	1	0.000	1.000	0.000	
405	101	103	0		y	y	1.250	1	1	0.000	1.000	0.000	
406	307	388	0				1.550	2	1	1.000	0.000	0.000	
407	307	304	0		y	y	1.250	1	1	0.000	-1.000	0.000	
408	308	307	0				0.300	2	1	1.000	0.000	0.000	
409	308	305	0		y	y	1.250	1	1	0.000	-1.000	0.000	
410	309	308	0				1.550	2	1	1.000	0.000	0.000	
411	309	312	0				1.250	3	1	0.000	1.000	0.000	
412	103	105	0		y	y	1.250	1	1	0.000	1.000	0.000	
413	310	390	0				1.550	2	1	1.000	0.000	0.000	
414	310	307	0			y	1.250	1	1	0.000	-1.000	0.000	
415	311	310	0				0.300	2	1	1.000	0.000	0.000	
416	311	308	0		y	y	1.250	1	1	0.000	-1.000	0.000	
417	312	311	0				1.550	2	1	1.000	0.000	0.000	
418	312	84	0				0.395	3	1	0.000	1.000	0.000	
419	105	204	0		y	y	0.370	1	1	0.000	1.000	0.000	
420	110	38	0		y	y	1.250	1	1	0.000	-1.000	0.000	
421	111	110	0		y	y	1.250	1	1	0.000	-1.000	0.000	
422	112	111	0		y	y	1.250	1	1	0.000	-1.000	0.000	
423	113	112	0		y	y	1.250	1	1	0.000	-1.000	0.000	
424	114	113	0		y	y	1.250	1	1	0.000	-1.000	0.000	
425	115	114	0		y	y	1.250	1	1	0.000	-1.000	0.000	
426	116	115	0		y	y	1.250	1	1	0.000	-1.000	0.000	
427	117	116	0		y	y	1.250	1	1	0.000	-1.000	0.000	
428	118	117	0		y	y	1.250	1	1	0.000	-1.000	0.000	
429	119	118	0		y	y	1.250	1	1	0.000	-1.000	0.000	
430	120	119	0		y	y	1.250	1	1	0.000	-1.000	0.000	
431	121	120	0		y	y	1.250	1	1	0.000	-1.000	0.000	
432	122	121	0		y	y	1.250	1	1	0.000	-1.000	0.000	
433	123	122	0		y	y	1.250	1	1	0.000	-1.000	0.000	
434	124	123	0		y	y	1.250	1	1	0.000	-1.000	0.000	
435	125	124	0		y	y	1.250	1	1	0.000	-1.000	0.000	
436	126	125	0		y	y	1.250	1	1	0.000	-1.000	0.000	
437	127	126	0		y	y	1.250	1	1	0.000	-1.000	0.000	
438	128	127	0		y	y	1.250	1	1	0.000	-1.000	0.000	
439	129	128	0		y	y	1.250	1	1	0.000	-1.000	0.000	
440	130	129	0		y	y	1.250	1	1	0.000	-1.000	0.000	
441	131	130	0		y	y	1.250	1	1	0.000	-1.000	0.000	
442	132	131	0		y	y	1.250	1	1	0.000	-1.000	0.000	
443	133	132	0		y	y	1.250	1	1	0.000	-1.000	0.000	
444	134	133	0		y	y	1.250	1	1	0.000	-1.000	0.000	
445	135	134	0		y	y	1.250	1	1	0.000	-1.000	0.000	
446	136	135	0		y	y	1.250	1	1	0.000	-1.000	0.000	
447	137	136	0		y	y	1.250	1	1	0.000	-1.000	0.000	
448	138	137	0		y	y	1.250	1	1	0.000	-1.000	0.000	
449	139	138	0		y	y	1.250	1	1	0.000	-1.000	0.000	
450	140	139	0		y	y	1.250	1	1	0.000	-1.000	0.000	

MAFRA
ARQUITETURA

INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
451	141	140	0		y	y	1.250	1	1	0.000	-1.000	0.000	
452	142	141	0		y	y	1.250	1	1	0.000	-1.000	0.000	
453	143	142	0		y	y	1.250	1	1	0.000	-1.000	0.000	
454	144	143	0		y	y	1.250	1	1	0.000	-1.000	0.000	
455	145	144	0		y	y	1.250	1	1	0.000	-1.000	0.000	
456	147	148	0		y	y	1.250	1	1	0.000	1.000	0.000	
457	34	32	0		y	y	1.250	1	1	0.000	1.000	0.000	
458	148	149	0		y	y	1.250	1	1	0.000	1.000	0.000	
459	32	30	0		y	y	1.250	1	1	0.000	1.000	0.000	
460	149	150	0		y	y	1.250	1	1	0.000	1.000	0.000	
461	30	28	0		y	y	1.250	1	1	0.000	1.000	0.000	
462	150	151	0		y	y	1.250	1	1	0.000	1.000	0.000	
463	28	14	0		y	y	1.250	1	1	0.000	1.000	0.000	
464	151	152	0		y	y	1.250	1	1	0.000	1.000	0.000	
465	14	40	0		y	y	1.250	1	1	0.000	1.000	0.000	
466	152	153	0		y	y	1.250	1	1	0.000	1.000	0.000	
467	40	42	0		y	y	1.250	1	1	0.000	1.000	0.000	
468	153	154	0		y	y	1.250	1	1	0.000	1.000	0.000	
469	42	44	0		y	y	1.250	1	1	0.000	1.000	0.000	
470	154	155	0		y	y	1.250	1	1	0.000	1.000	0.000	
471	44	46	0		y	y	1.250	1	1	0.000	1.000	0.000	
472	155	156	0		y	y	1.250	1	1	0.000	1.000	0.000	
473	46	48	0		y	y	1.250	1	1	0.000	1.000	0.000	
474	156	157	0		y	y	1.250	1	1	0.000	1.000	0.000	
475	48	50	0		y	y	1.250	1	1	0.000	1.000	0.000	
476	157	158	0		y	y	1.250	1	1	0.000	1.000	0.000	
477	50	52	0		y	y	1.250	1	1	0.000	1.000	0.000	
478	158	159	0		y	y	1.250	1	1	0.000	1.000	0.000	
479	52	20	0		y	y	1.250	1	1	0.000	1.000	0.000	
480	159	160	0		y	y	1.250	1	1	0.000	1.000	0.000	
481	20	54	0		y	y	1.250	1	1	0.000	1.000	0.000	
482	160	161	0		y	y	1.250	1	1	0.000	1.000	0.000	
483	54	56	0		y	y	1.250	1	1	0.000	1.000	0.000	
484	161	162	0		y	y	1.250	1	1	0.000	1.000	0.000	
485	56	58	0		y	y	1.250	1	1	0.000	1.000	0.000	
486	162	163	0		y	y	1.250	1	1	0.000	1.000	0.000	
487	58	60	0		y	y	1.250	1	1	0.000	1.000	0.000	
488	163	164	0		y	y	1.250	1	1	0.000	1.000	0.000	
489	60	62	0		y	y	1.250	1	1	0.000	1.000	0.000	
490	164	165	0		y	y	1.250	1	1	0.000	1.000	0.000	
491	62	64	0		y	y	1.250	1	1	0.000	1.000	0.000	
492	165	166	0		y	y	1.250	1	1	0.000	1.000	0.000	
493	64	66	0		y	y	1.250	1	1	0.000	1.000	0.000	
494	166	167	0		y	y	1.250	1	1	0.000	1.000	0.000	
495	66	22	0		y	y	1.250	1	1	0.000	1.000	0.000	
496	167	168	0		y	y	1.250	1	1	0.000	1.000	0.000	
497	22	68	0		y	y	1.250	1	1	0.000	1.000	0.000	
498	168	169	0		y	y	1.250	1	1	0.000	1.000	0.000	
499	68	70	0		y	y	1.250	1	1	0.000	1.000	0.000	
500	169	170	0		y	y	1.250	1	1	0.000	1.000	0.000	
501	70	72	0		y	y	1.250	1	1	0.000	1.000	0.000	
502	170	212	0		y		0.113	1	1	0.000	1.000	0.000	
503	172	353	0		y		1.250	3	1	0.000	1.000	0.000	
504	172	20	0				0.312	2	1	1.000	0.000	0.000	
505	174	22	0				0.312	2	1	1.000	0.000	0.000	
506	174	360	0		y		1.250	3	1	0.000	1.000	0.000	

INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
507	176	378	0		y		1.250	3	1	0.000	1.000	0.000	
508	176	393	0				0.400	2	1	1.000	0.000	0.000	
509	214	80	0				0.223	3	1	0.402	0.916	0.000	
510	177	216	0				0.688	3	1	0.000	1.000	0.000	
511	179	72	0		y	y	1.181	1	1	-0.402	-0.916	0.000	
512	180	182	0		y	y	1.365	1	1	0.402	0.916	0.000	
513	181	179	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
514	182	184	0		y	y	1.365	1	1	0.402	0.916	0.000	
515	183	181	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
516	184	186	0		y	y	1.365	1	1	0.402	0.916	0.000	
517	185	183	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
518	186	189	0		y	y	1.365	1	1	0.402	0.916	0.000	
519	92	94	0		y		1.365	3	1	0.402	0.916	0.000	
520	188	185	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
521	189	191	0		y	y	1.365	1	1	0.402	0.916	0.000	
522	190	188	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
523	94	96	0				1.365	3	1	0.402	0.916	0.000	
524	191	193	0		y	y	1.365	1	1	0.402	0.916	0.000	
525	192	190	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
526	96	98	0				1.365	3	1	0.402	0.916	0.000	
527	193	195	0		y	y	1.365	1	1	0.402	0.916	0.000	
528	194	192	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
529	98	100	0				1.365	3	1	0.402	0.916	0.000	
530	195	197	0		y	y	1.365	1	1	0.402	0.916	0.000	
531	196	194	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
532	100	102	0				1.365	3	1	0.402	0.916	0.000	
533	197	199	0		y	y	1.365	1	1	0.402	0.916	0.000	
534	198	196	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
535	102	104	0				1.365	3	1	0.402	0.916	0.000	
536	199	201	0		y	y	1.365	1	1	0.402	0.916	0.000	
537	200	198	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
538	104	106	0				1.365	3	1	0.402	0.916	0.000	
539	201	203	0		y	y	1.365	1	1	0.402	0.916	0.000	
540	202	200	0		y	y	1.365	1	1	-0.402	-0.916	0.000	
541	106	178	0				1.327	3	1	0.402	0.916	0.000	
542	203	206	0		y	y	1.891	1	1	0.402	0.916	0.000	
543	313	84	0				1.555	2	1	-0.997	-0.079	0.000	
544	313	311	0		y	y	0.518	1	1	0.000	-1.000	0.000	
545	213	215	0				0.314	2	1	-0.997	-0.079	0.000	
546	314	283	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
547	314	74	0				0.853	2	1	1.000	0.000	0.000	
548	315	391	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
549	315	94	0				1.393	2	1	1.000	0.000	0.000	
550	316	315	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
551	316	96	0				1.663	2	1	1.000	0.000	0.000	
552	317	316	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
553	317	98	0				1.932	2	1	1.000	0.000	0.000	
554	318	317	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
555	318	100	0				2.202	2	1	1.000	0.000	0.000	
556	319	318	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
557	319	102	0				2.472	2	1	1.000	0.000	0.000	
558	320	319	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
559	320	104	0				2.742	2	1	1.000	0.000	0.000	
560	321	320	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
561	321	106	0				3.011	2	1	1.000	0.000	0.000	
562	322	284	0		y	y	1.281	1	1	-0.218	-0.976	0.000	

INCIDÊNCIAS DE BARRAS

Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
563	322	314	0				0.307	2	1	1.000	0.000	0.000	
564	323	392	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
565	323	315	0				0.307	2	1	1.000	0.000	0.000	
566	324	323	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
567	324	316	0				0.307	2	1	1.000	0.000	0.000	
568	325	324	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
569	325	317	0				0.307	2	1	1.000	0.000	0.000	
570	326	325	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
571	326	318	0				0.307	2	1	1.000	0.000	0.000	
572	327	326	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
573	327	319	0				0.307	2	1	1.000	0.000	0.000	
574	328	327	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
575	328	320	0				0.307	2	1	1.000	0.000	0.000	
576	329	328	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
577	329	321	0				0.307	2	1	1.000	0.000	0.000	
578	215	218	0				2.942	2	1	-0.997	-0.079	0.000	
579	217	368	0			y	0.318	1	1	-0.218	-0.976	0.000	
580	330	16	0				1.550	2	1	1.000	0.000	0.000	
581	330	337	0		y	y	1.250	1	1	0.000	-1.000	0.000	
582	331	330	0				0.300	2	1	1.000	0.000	0.000	
583	331	338	0		y	y	1.250	1	1	0.000	-1.000	0.000	
584	332	347	0				1.250	3	1	0.000	1.000	0.000	
585	332	40	0				0.312	2	1	1.000	0.000	0.000	
586	333	172	0				1.550	2	1	1.000	0.000	0.000	
587	333	247	0		y	y	1.250	1	1	0.000	-1.000	0.000	
588	334	333	0				0.300	2	1	1.000	0.000	0.000	
589	334	248	0		y	y	1.250	1	1	0.000	-1.000	0.000	
590	335	174	0				1.550	2	1	1.000	0.000	0.000	
591	335	268	0		y	y	1.250	1	1	0.000	-1.000	0.000	
592	336	335	0				0.300	2	1	1.000	0.000	0.000	
593	336	269	0		y	y	1.250	1	1	0.000	-1.000	0.000	
594	337	219	0				1.550	2	1	1.000	0.000	0.000	
595	337	339	0		y	y	1.250	1	1	0.000	-1.000	0.000	
596	338	337	0				0.300	2	1	1.000	0.000	0.000	
597	338	340	0		y	y	1.250	1	1	0.000	-1.000	0.000	
598	339	221	0				1.550	2	1	1.000	0.000	0.000	
599	339	341	0		y	y	1.250	1	1	0.000	-1.000	0.000	
600	340	339	0				0.300	2	1	1.000	0.000	0.000	
601	340	342	0		y	y	1.250	1	1	0.000	-1.000	0.000	
602	341	223	0				1.550	2	1	1.000	0.000	0.000	
603	341	343	0		y	y	1.250	1	1	0.000	-1.000	0.000	
604	342	341	0				0.300	2	1	1.000	0.000	0.000	
605	342	344	0		y	y	1.250	1	1	0.000	-1.000	0.000	
606	343	225	0				1.550	2	1	1.000	0.000	0.000	
607	343	345	0		y	y	1.250	1	1	0.000	-1.000	0.000	
608	344	343	0				0.300	2	1	1.000	0.000	0.000	
609	344	346	0		y		1.250	1	1	0.000	-1.000	0.000	
610	345	227	0				1.550	2	1	1.000	0.000	0.000	
611	345	375	0		y	y	1.202	1	1	0.000	-1.000	0.000	
612	346	345	0				0.300	2	1	1.000	0.000	0.000	
613	346	211	0				1.213	1	1	0.000	-1.000	0.000	
614	347	42	0				0.312	2	1	1.000	0.000	0.000	
615	347	348	0				1.250	3	1	0.000	1.000	0.000	
616	348	44	0				0.312	2	1	1.000	0.000	0.000	
617	348	349	0				1.250	3	1	0.000	1.000	0.000	
618	349	46	0				0.312	2	1	1.000	0.000	0.000	

MAFRA
ARQUITETURA

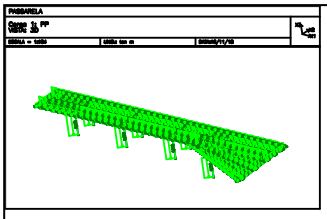
INCIDÊNCIAS DE BARRAS

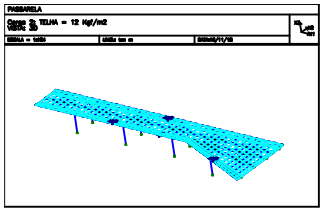
Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
619	349	350	0				1.250	3	1	0.000	1.000	0.000	
620	350	48	0				0.312	2	1	1.000	0.000	0.000	
621	350	351	0				1.250	3	1	0.000	1.000	0.000	
622	351	50	0				0.312	2	1	1.000	0.000	0.000	
623	351	352	0				1.250	3	1	0.000	1.000	0.000	
624	352	52	0				0.312	2	1	1.000	0.000	0.000	
625	352	172	0			y	1.250	3	1	0.000	1.000	0.000	
626	353	54	0				0.312	2	1	1.000	0.000	0.000	
627	353	354	0				1.250	3	1	0.000	1.000	0.000	
628	354	56	0				0.312	2	1	1.000	0.000	0.000	
629	354	355	0				1.250	3	1	0.000	1.000	0.000	
630	355	58	0				0.312	2	1	1.000	0.000	0.000	
631	355	356	0				1.250	3	1	0.000	1.000	0.000	
632	356	60	0				0.312	2	1	1.000	0.000	0.000	
633	356	357	0				1.250	3	1	0.000	1.000	0.000	
634	357	62	0				0.312	2	1	1.000	0.000	0.000	
635	357	358	0				1.250	3	1	0.000	1.000	0.000	
636	358	64	0				0.312	2	1	1.000	0.000	0.000	
637	358	359	0				1.250	3	1	0.000	1.000	0.000	
638	359	66	0				0.312	2	1	1.000	0.000	0.000	
639	359	174	0			y	1.250	3	1	0.000	1.000	0.000	
640	360	68	0				0.312	2	1	1.000	0.000	0.000	
641	360	361	0				1.250	3	1	0.000	1.000	0.000	
642	361	70	0				0.312	2	1	1.000	0.000	0.000	
643	361	362	0				1.250	3	1	0.000	1.000	0.000	
644	362	72	0				0.312	2	1	1.000	0.000	0.000	
645	362	177	0				0.334	3	1	0.000	1.000	0.000	
646	363	322	0				0.490	2	1	1.000	0.000	0.000	
647	363	393	0		y	y	1.250	1	1	0.000	1.000	0.000	
648	364	363	0				0.400	2	1	1.000	0.000	0.000	
649	364	176	0			y	1.250	3	1	0.000	1.000	0.000	
650	365	369	0		y	y	1.250	1	1	0.000	-1.000	0.000	
651	365	286	0				1.550	2	1	1.000	0.000	0.000	
652	366	370	0		y	y	1.250	1	1	0.000	-1.000	0.000	
653	366	365	0				0.300	2	1	1.000	0.000	0.000	
654	367	371	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
655	367	78	0				0.314	2	1	1.000	0.000	0.000	
656	368	367	0				0.307	2	1	1.000	0.000	0.000	
657	368	372	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
658	369	288	0				1.550	2	1	1.000	0.000	0.000	
659	369	373	0		y	y	1.250	1	1	0.000	-1.000	0.000	
660	370	369	0				0.300	2	1	1.000	0.000	0.000	
661	370	374	0		y	y	1.250	1	1	0.000	-1.000	0.000	
662	371	80	0				0.044	2	1	1.000	0.000	0.000	
663	371	214	0		y	y	0.209	1	1	-0.218	-0.976	0.000	
664	372	371	0				0.307	2	1	1.000	0.000	0.000	
665	372	216	0		y	y	0.234	1	1	-0.218	-0.976	0.000	
666	373	290	0				1.550	2	1	1.000	0.000	0.000	
667	373	277	0		y	y	1.250	1	1	0.000	-1.000	0.000	
668	374	373	0				0.300	2	1	1.000	0.000	0.000	
669	374	278	0		y	y	1.250	1	1	0.000	-1.000	0.000	
670	375	83	0				1.855	2	1	-0.997	-0.075	0.000	
672	376	176	0				1.550	2	1	1.000	0.000	0.000	
673	376	280	0		y	y	1.250	1	1	0.000	-1.000	0.000	
674	377	376	0				0.300	2	1	1.000	0.000	0.000	
675	377	281	0		y	y	1.250	1	1	0.000	-1.000	0.000	

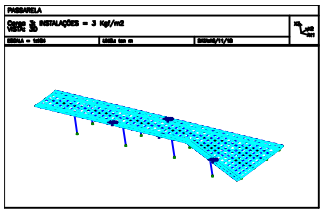
INCIDÊNCIAS DE BARRAS

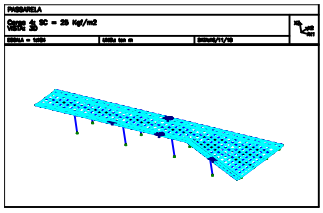
Barra N.º	JA	JB	JC/ Beta	Liberação AJ	Liberação mv	Liberação mv	Compr.	Prop n.º	Mat n.º	Cosenos diretores do eixo local x2			Offs. n.º
676	378	394	0				0.400	2	1	1.000	0.000	0.000	
677	378	380	0				1.250	3	1	0.000	1.000	0.000	
678	379	324	0				1.328	2	1	1.000	0.000	0.000	
679	379	381	0		y	y	1.250	1	1	0.000	1.000	0.000	
680	380	379	0				0.400	2	1	1.000	0.000	0.000	
681	380	382	0				1.250	3	1	0.000	1.000	0.000	
682	381	325	0				1.607	2	1	1.000	0.000	0.000	
683	381	383	0		y	y	1.250	1	1	0.000	1.000	0.000	
684	382	381	0				0.400	2	1	1.000	0.000	0.000	
685	382	384	0				1.250	3	1	0.000	1.000	0.000	
686	383	326	0				1.887	2	1	1.000	0.000	0.000	
687	383	385	0		y	y	1.250	1	1	0.000	1.000	0.000	
688	384	383	0				0.400	2	1	1.000	0.000	0.000	
689	384	386	0				1.250	3	1	0.000	1.000	0.000	
690	385	327	0				2.166	2	1	1.000	0.000	0.000	
691	385	387	0		y	y	1.250	1	1	0.000	1.000	0.000	
692	386	385	0				0.400	2	1	1.000	0.000	0.000	
693	386	388	0				1.250	3	1	0.000	1.000	0.000	
694	387	328	0				2.446	2	1	1.000	0.000	0.000	
695	387	389	0		y		1.250	1	1	0.000	1.000	0.000	
696	388	387	0				0.400	2	1	1.000	0.000	0.000	
697	388	390	0				1.250	3	1	0.000	1.000	0.000	
698	389	329	0				2.725	2	1	1.000	0.000	0.000	
699	389	218	0				0.695	1	1	0.000	1.000	0.000	
700	390	389	0				0.400	2	1	1.000	0.000	0.000	
701	390	82	0				0.664	3	1	0.000	1.000	0.000	
702	391	92	0				1.123	2	1	1.000	0.000	0.000	
703	391	314	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
704	392	391	0				0.307	2	1	1.000	0.000	0.000	
705	392	322	0		y	y	1.281	1	1	-0.218	-0.976	0.000	
706	393	392	0				0.769	2	1	1.000	0.000	0.000	
707	393	394	0		y	y	1.250	1	1	0.000	1.000	0.000	
708	216	290	0				0.229	3	1	0.000	1.000	0.000	
709	218	82	0				0.401	2	1	-0.997	-0.079	0.000	
710	394	323	0				1.048	2	1	1.000	0.000	0.000	
711	394	379	0		y	y	1.250	1	1	0.000	1.000	0.000	
712	82	313	0				1.856	2	1	-0.997	-0.079	0.000	

PESO TOTAL DAS BARRAS DE PROPRIEDADE N.º 1= 0.986
PESO TOTAL DAS BARRAS DE PROPRIEDADE N.º 2= 3.489
PESO TOTAL DAS BARRAS DE PROPRIEDADE N.º 3= 3.184
PESO TOTAL DAS BARRAS DE PROPRIEDADE N.º 4= 0.790
PESO TOTAL DAS BARRAS = 8.449






PASSARELA
Caso 3: INSTALAÇÕES = 3 Kgf/m2


PASSARELA
Caso 2: SC = 25 Kgf/m2

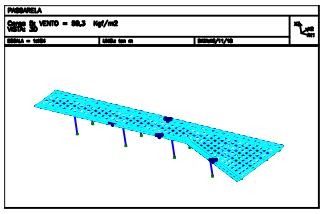


TABELA de COMBINAÇÕES						
Comb.						
PP+SC 1	1 * 1.00	+ 2 * 1.00	+ 3 * 1.00	+ 4 * 1.00		
PP+VEN 2	1 * 1.00	+ 2 * 1.00	+ 5 * 1.00			
PP+SC+ 3	1 * 1.00	+ 2 * 1.00	+ 3 * 0.75	+ 4 * 0.75	+ 5 * 0.75	

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
1	1	0.00000	0.00000	0.00000	0.0004682	-0.0000044	-0.0000014
	2	0.00000	0.00000	0.00000	-0.0001241	0.0000014	0.0000005
	3	0.00000	0.00000	0.00000	0.0001193	-0.0000010	-0.0000003
Nó máx		0.00000	0.00000	0.00000	0.0004682	-0.0000044	-0.0000014
1 Comb.		0	0	0	1	1	1
2	1	0.00000	0.00000	0.00000	-0.0004546	-0.0000047	0.0000017
	2	0.00000	0.00000	0.00000	0.0001153	0.0000013	-0.0000004
	3	0.00000	0.00000	0.00000	-0.0001189	-0.0000011	0.0000004
Nó máx		0.00000	0.00000	0.00000	-0.0004546	-0.0000047	0.0000017
2 Comb.		0	0	0	1	1	1
3	1	0.00000	0.00000	0.00000	0.0005352	0.0000011	0.0000005
	2	0.00000	0.00000	0.00000	-0.0001489	-0.0000003	0.0000000
	3	0.00000	0.00000	0.00000	0.0001322	0.0000003	0.0000002
Nó máx		0.00000	0.00000	0.00000	0.0005352	0.0000011	0.0000005
3 Comb.		0	0	0	1	1	1
4	1	0.00000	0.00000	0.00000	-0.0005125	0.0000001	0.0000011
	2	0.00000	0.00000	0.00000	0.0001292	-0.0000002	-0.0000002
	3	0.00000	0.00000	0.00000	-0.0001345	0.0000000	0.0000003
Nó máx		0.00000	0.00000	0.00000	-0.0005125	-0.0000002	0.0000011
4 Comb.		0	0	0	1	2	1
5	1	0.00000	0.00000	0.00000	0.0005561	0.0000043	0.0000023
	2	0.00000	0.00000	0.00000	-0.0001459	-0.0000017	-0.0000012
	3	0.00000	0.00000	0.00000	0.0001426	0.0000008	0.0000002
Nó máx		0.00000	0.00000	0.00000	0.0005561	0.0000043	0.0000023
5 Comb.		0	0	0	1	1	1
6	1	0.00000	0.00000	0.00000	-0.0005344	0.0000007	0.0000042
	2	0.00000	0.00000	0.00000	0.0001288	-0.0000002	-0.0000017
	3	0.00000	0.00000	0.00000	-0.0001437	0.0000002	0.0000008
Nó máx		0.00000	0.00000	0.00000	-0.0005344	0.0000007	0.0000042
6 Comb.		0	0	0	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
7	1	0.00000	0.00000	0.00000	0.0020231	0.0007166	0.0003861
	2	0.00000	0.00000	0.00000	-0.0006442	-0.0002971	-0.0001522
	3	0.00000	0.00000	0.00000	0.0004519	0.0001194	0.0000690
Nó máx		0.00000	0.00000	0.00000	0.0020231	0.0007166	0.0003861
7 Comb.		0	0	0	1	1	1
8	1	0.00000	0.00000	0.00000	-0.0020694	0.0000156	0.0003039
	2	0.00000	0.00000	0.00000	0.0006555	-0.0000059	-0.0001327
	3	0.00000	0.00000	0.00000	-0.0004642	0.0000029	0.0000467
Nó máx		0.00000	0.00000	0.00000	-0.0020694	0.0000156	0.0003039
8 Comb.		0	0	0	1	1	1
9	1	-0.00150	-0.00561	-0.00723	-0.0008990	-0.0000040	-0.0000014
	2	0.00046	0.00242	0.00173	0.0002303	0.0000012	0.0000005
	3	-0.00035	-0.00088	-0.00195	-0.0002338	-0.0000009	-0.0000003
Nó máx		-0.00150	-0.00561	-0.00723	-0.0008990	-0.0000040	-0.0000014
9 Comb.		1	1	1	1	1	1
10	1	0.00146	-0.00746	-0.00856	-0.0010608	0.0000039	0.0000023
	2	-0.00058	0.00542	0.00186	0.0002484	-0.0000016	-0.0000012
	3	0.00026	0.00013	-0.00242	-0.0002896	0.0000007	0.0000002
Nó máx		0.00146	-0.00746	-0.00856	-0.0010608	0.0000039	0.0000023
10 Comb.		1	1	1	1	1	1
11	1	0.00036	-0.00694	-0.00826	-0.0010232	0.0000010	0.0000005
	2	-0.00010	0.00411	0.00204	0.0002659	-0.0000003	0.0000000
	3	0.00009	-0.00043	-0.00220	-0.0002638	0.0000002	0.0000002
Nó máx		0.00036	-0.00694	-0.00826	-0.0010232	0.0000010	0.0000005
11 Comb.		1	1	1	1	1	1
12	1	0.00025	-0.00035	-0.00872	0.0010844	0.0000007	0.0000042
	2	-0.00006	0.00353	0.00223	-0.0002911	-0.0000002	-0.0000017
	3	0.00006	0.00194	-0.00227	0.0002741	0.0000002	0.0000008
Nó máx		0.00025	0.00353	-0.00872	0.0010844	0.0000007	0.0000042
12 Comb.		1	2	1	1	1	1
13	1	-0.00083	-0.00595	-0.02030	0.0005246	0.0003653	0.0000233
	2	0.00024	0.00251	0.00481	-0.0001485	-0.0001037	-0.0000065
	3	-0.00020	-0.00096	-0.00551	0.0001281	0.0000890	0.0000057
Nó máx		-0.00083	-0.00595	-0.02030	0.0005246	0.0003653	0.0000233
13 Comb.		1	1	1	1	1	1
14	1	-0.00097	0.00073	-0.01974	-0.0005235	0.0003543	-0.0000298
	2	0.00033	0.00069	0.00447	0.0001491	-0.0001072	0.0000101
	3	-0.00020	0.00071	-0.00548	-0.0001273	0.0000825	-0.0000063
Nó máx		-0.00097	0.00073	-0.01974	-0.0005235	0.0003543	-0.0000298
14 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
15	1	-0.00147	-0.00565	-0.03627	-0.0009395	0.0001442	-0.0000014
	2	0.00045	0.00242	0.00932	0.0002335	-0.0000435	0.0000005
	3	-0.00034	-0.00089	-0.00941	-0.0002485	0.0000336	-0.0000003
Nó máx		-0.00147	-0.00565	-0.03627	-0.0009395	0.0001442	-0.0000014
15 Comb.		1	1	1	1	1	1
16	1	-0.00002	0.00073	-0.03672	-0.0005976	0.0001442	-0.0000255
	2	0.00001	0.00069	0.00945	0.0001850	-0.0000435	0.0000086
	3	0.00000	0.00071	-0.00952	-0.0001366	0.0000337	-0.0000054
Nó máx		-0.00002	0.00073	-0.03672	-0.0005976	0.0001442	-0.0000255
16 Comb.		1	1	1	1	1	1
17	1	-0.00155	0.00050	-0.03686	0.0009521	0.0001476	0.0000018
	2	0.00044	0.00074	0.00965	-0.0002405	-0.0000420	-0.0000005
	3	-0.00037	0.00064	-0.00946	0.0002496	0.0000359	0.0000005
Nó máx		-0.00155	0.00074	-0.03686	0.0009521	0.0001476	0.0000018
17 Comb.		1	2	1	1	1	1
18	1	-0.00007	-0.00595	-0.03732	0.0005995	0.0001477	0.0000207
	2	0.00002	0.00251	0.00979	-0.0001854	-0.0000421	-0.0000058
	3	-0.00002	-0.00096	-0.00957	0.0001371	0.0000359	0.0000051
Nó máx		-0.00007	-0.00595	-0.03732	0.0005995	0.0001477	0.0000207
18 Comb.		1	1	1	1	1	1
19	1	-0.00010	-0.00731	-0.02311	0.0005949	-0.0000231	0.0000017
	2	0.00001	0.00423	0.00576	-0.0001705	0.0000181	0.0000001
	3	-0.00003	-0.00051	-0.00610	0.0001440	0.0000012	0.0000008
Nó máx		-0.00010	-0.00731	-0.02311	0.0005949	-0.0000231	0.0000017
19 Comb.		1	1	1	1	1	1
20	1	-0.00008	0.00023	-0.02266	-0.0005963	-0.0000752	-0.0000053
	2	0.00006	0.00214	0.00526	0.0001728	0.0000228	0.0000026
	3	0.00001	0.00135	-0.00621	-0.0001433	-0.0000175	-0.0000006
Nó máx		-0.00008	0.00214	-0.02266	-0.0005963	-0.0000752	-0.0000053
20 Comb.		1	2	1	1	1	1
21	1	-0.00059	-0.00786	-0.02429	0.0006191	-0.0000441	0.0000240
	2	0.00023	0.00560	0.00624	-0.0001705	0.0000093	-0.0000091
	3	-0.00011	0.00007	-0.00631	0.0001540	-0.0000126	0.0000045
Nó máx		-0.00059	-0.00786	-0.02429	0.0006191	-0.0000441	0.0000240
21 Comb.		1	1	1	1	1	1
22	1	0.00014	-0.00003	-0.02340	-0.0006221	-0.0003081	-0.0000060
	2	-0.00014	0.00353	0.00457	0.0001707	0.0001341	-0.0000021
	3	-0.00002	0.00207	-0.00692	-0.0001551	-0.0000476	-0.0000037
Nó máx		0.00014	0.00353	-0.02340	-0.0006221	-0.0003081	-0.0000060
22 Comb.		1	2	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
23	1	0.00006	-0.00005	-0.04179	0.0010766	-0.0000110	0.0000011
	2	-0.00006	0.00219	0.01126	-0.0002811	0.0000076	-0.0000002
	3	-0.00001	0.00127	-0.01054	0.0002768	-0.0000001	0.0000003
Nó máx		0.00006	0.00219	-0.04179	0.0010766	-0.0000110	0.0000011
23 Comb.		1	2	1	1	1	1
24	1	-0.00005	-0.00731	-0.04231	0.0006699	-0.0000110	0.0000016
	2	0.00002	0.00423	0.01142	-0.0002076	0.0000076	0.0000001
	3	-0.00001	-0.00051	-0.01066	0.0001530	-0.0000001	0.0000007
Nó máx		-0.00005	-0.00731	-0.04231	0.0006699	-0.0000110	0.0000016
24 Comb.		1	1	1	1	1	1
25	1	0.00034	-0.00030	-0.04370	0.0011233	-0.0000246	0.0000042
	2	-0.00010	0.00352	0.01173	-0.0002891	0.0000069	-0.0000017
	3	0.00008	0.00195	-0.01105	0.0002913	-0.0000060	0.0000008
Nó máx		0.00034	0.00352	-0.04370	0.0011233	-0.0000246	0.0000042
25 Comb.		1	2	1	1	1	1
26	1	0.00010	-0.00786	-0.04425	0.0006943	-0.0000246	0.0000179
	2	-0.00003	0.00560	0.01190	-0.0002078	0.0000069	-0.0000070
	3	0.00002	0.00007	-0.01117	0.0001629	-0.0000060	0.0000033
Nó máx		0.00010	-0.00786	-0.04425	0.0006943	-0.0000246	0.0000179
26 Comb.		1	1	1	1	1	1
27	1	-0.00025	-0.00220	-0.46451	0.0000330	-0.0004986	-0.0000227
	2	0.00006	0.00129	0.13886	-0.0001000	0.0001623	0.0000076
	3	-0.00007	-0.00014	-0.10908	-0.0000453	-0.0001093	-0.0000049
Nó máx		-0.00025	-0.00220	-0.46451	-0.0001000	-0.0004986	-0.0000227
27 Comb.		1	1	1	2	1	1
28	1	-0.00044	-0.00219	-0.41079	-0.0003020	-0.0004175	0.0000116
	2	0.00017	0.00129	0.11976	0.0001973	0.0001283	-0.0000026
	3	-0.00008	-0.00014	-0.09826	-0.0000079	-0.0000960	0.0000032
Nó máx		-0.00044	-0.00219	-0.41079	-0.0003020	-0.0004175	0.0000116
28 Comb.		1	1	1	1	1	1
29	1	-0.00019	-0.00181	-0.77691	-0.0000862	-0.0002175	-0.0000148
	2	0.00004	0.00103	0.23582	-0.0000598	0.0000757	0.0000052
	3	-0.00006	-0.00014	-0.18033	-0.0000707	-0.0000448	-0.0000031
Nó máx		-0.00019	-0.00181	-0.77691	-0.0000862	-0.0002175	-0.0000148
29 Comb.		1	1	1	1	1	1
30	1	-0.00040	-0.00182	-0.67651	-0.0004144	-0.0001473	0.0000039
	2	0.00015	0.00103	0.20057	0.0002369	0.0000461	-0.0000002
	3	-0.00007	-0.00014	-0.15984	-0.0000307	-0.0000334	0.0000015
Nó máx		-0.00040	-0.00182	-0.67651	-0.0004144	-0.0001473	0.0000039
30 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
31	1	-0.00042	-0.00143	-0.89277	-0.0001731	0.0002608	0.0000105
	2	0.00011	0.00079	0.27233	-0.0000300	-0.0000715	-0.0000026
	3	-0.00011	-0.00012	-0.20643	-0.0000888	0.0000650	0.0000028
Nó máx		-0.00042	-0.00143	-0.89277	-0.0001731	0.0002608	0.0000105
31 Comb.		1	1	1	1	1	1
32	1	-0.00061	-0.00143	-0.75796	-0.0004981	0.0003027	-0.0000198
	2	0.00022	0.00079	0.22565	0.0002635	-0.0000901	0.0000069
	3	-0.00012	-0.00012	-0.17853	-0.0000494	0.0000713	-0.0000041
Nó máx		-0.00061	-0.00143	-0.75796	-0.0004981	0.0003027	-0.0000198
32 Comb.		1	1	1	1	1	1
33	1	-0.00076	-0.00105	-0.78986	-0.0003586	0.0007787	0.0000405
	2	0.00022	0.00055	0.24463	0.0001299	-0.0002314	-0.0000119
	3	-0.00019	-0.00011	-0.18046	-0.0000708	0.0001836	0.0000096
Nó máx		-0.00076	-0.00105	-0.78986	-0.0003586	0.0007787	0.0000405
33 Comb.		1	1	1	1	1	1
34	1	-0.00094	-0.00105	-0.63858	-0.0004013	0.0007787	-0.0000474
	2	0.00032	0.00055	0.19302	0.0001351	-0.0002342	0.0000153
	3	-0.00020	-0.00011	-0.14870	-0.0000853	0.0001820	-0.0000105
Nó máx		-0.00094	-0.00105	-0.63858	-0.0004013	0.0007787	-0.0000474
34 Comb.		1	1	1	1	1	1
35	1	-0.00123	-0.00064	-0.32424	-0.0008153	0.0011506	-0.0000701
	2	0.00040	0.00030	0.08882	0.0005620	-0.0003482	0.0000223
	3	-0.00027	-0.00009	-0.08092	-0.0000040	0.0002677	-0.0000157
Nó máx		-0.00123	-0.00064	-0.32424	-0.0008153	0.0011506	-0.0000701
35 Comb.		1	1	1	1	1	1
36	1	0.00188	0.00766	-0.26714	-0.0007616	0.0011390	-0.0001498
	2	-0.00045	-0.00549	0.04898	0.0005314	-0.0003447	0.0000465
	3	0.00050	-0.00009	-0.08092	0.0000001	0.0002650	-0.0000342
Nó máx		0.00188	0.00766	-0.26714	-0.0007616	0.0011390	-0.0001498
36 Comb.		1	1	1	1	1	1
37	1	-0.00108	-0.00063	-0.46779	0.0000886	0.0012056	0.0000668
	2	0.00032	0.00030	0.13622	-0.0003185	-0.0003657	-0.0000202
	3	-0.00026	-0.00008	-0.11198	-0.0001512	0.0002800	0.0000156
Nó máx		-0.00108	-0.00063	-0.46779	-0.0003185	0.0012056	0.0000668
37 Comb.		1	1	1	2	1	1
38	1	0.00265	-0.00107	-0.46483	0.0000262	0.0011934	0.0001507
	2	-0.00078	0.00342	0.11477	-0.0002807	-0.0003619	-0.0000464
	3	0.00063	0.00158	-0.12340	-0.0001546	0.0002772	0.0000346
Nó máx		0.00265	0.00342	-0.46483	-0.0002807	0.0011934	0.0001507
38 Comb.		1	2	1	2	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
39	1	-0.00148	-0.00277	-1.05091	0.0001448	0.0022823	0.0001215
	2	0.00044	0.00185	0.32050	-0.0001229	-0.0006978	-0.0000371
	3	-0.00035	-0.00005	-0.24304	-0.0000129	0.0005268	0.0000281
Nó máx		-0.00148	-0.00277	-1.05091	0.0001448	0.0022823	0.0001215
39 Comb.		1	1	1	1	1	1
40	1	-0.00157	-0.00273	-1.04211	-0.0001912	0.0022505	-0.0001266
	2	0.00051	0.00184	0.31056	0.0001755	-0.0006824	0.0000394
	3	-0.00034	-0.00004	-0.24528	0.0000248	0.0005228	-0.0000288
Nó máx		-0.00157	-0.00273	-1.04211	-0.0001912	0.0022505	-0.0001266
40 Comb.		1	1	1	1	1	1
41	1	-0.00140	-0.00292	-1.90241	0.0001248	0.0018269	0.0001040
	2	0.00041	0.00204	0.58428	-0.0001030	-0.0005565	-0.0000316
	3	-0.00033	0.00001	-0.43755	-0.0000094	0.0004229	0.0000241
Nó máx		-0.00140	-0.00292	-1.90241	0.0001248	0.0018269	0.0001040
41 Comb.		1	1	1	1	1	1
42	1	-0.00146	-0.00293	-1.88684	-0.0002053	0.0017901	-0.0001084
	2	0.00048	0.00205	0.56632	0.0001959	-0.0005428	0.0000339
	3	-0.00032	0.00000	-0.44173	0.0000311	0.0004158	-0.0000246
Nó máx		-0.00146	-0.00293	-1.88684	-0.0002053	0.0017901	-0.0001084
42 Comb.		1	1	1	1	1	1
43	1	-0.00088	-0.00307	-2.46281	0.0001134	0.0010302	0.0000589
	2	0.00025	0.00223	0.75801	-0.0000896	-0.0003102	-0.0000176
	3	-0.00021	0.00005	-0.56549	-0.0000062	0.0002406	0.0000138
Nó máx		-0.00088	-0.00307	-2.46281	0.0001134	0.0010302	0.0000589
43 Comb.		1	1	1	1	1	1
44	1	-0.00093	-0.00307	-2.44266	-0.0002170	0.0009929	-0.0000631
	2	0.00032	0.00223	0.73462	0.0002099	-0.0003011	0.0000202
	3	-0.00019	0.00005	-0.57099	0.0000345	0.0002306	-0.0000140
Nó máx		-0.00093	-0.00307	-2.44266	-0.0002170	0.0009929	-0.0000631
44 Comb.		1	1	1	1	1	1
45	1	-0.00016	-0.00319	-2.65831	0.0001092	0.0000766	0.0000023
	2	0.00003	0.00241	0.81869	-0.0000845	-0.0000150	-0.0000001
	3	-0.00005	0.00011	-0.61008	-0.0000049	0.0000226	0.0000009
Nó máx		-0.00016	-0.00319	-2.65831	0.0001092	0.0000766	0.0000023
45 Comb.		1	1	1	1	1	1
46	1	-0.00019	-0.00320	-2.63643	-0.0002217	0.0000410	-0.0000065
	2	0.00010	0.00242	0.79323	0.0002156	-0.0000124	0.0000030
	3	-0.00002	0.00011	-0.61609	0.0000359	0.0000095	-0.0000009
Nó máx		-0.00019	-0.00320	-2.63643	-0.0002217	0.0000410	-0.0000065
46 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
47	1	0.00053	-0.00331	-2.46424	0.0001128	-0.0008681	-0.0000532
	2	-0.00019	0.00260	0.75863	-0.0000886	0.0002774	0.0000170
	3	0.00011	0.00017	-0.56571	-0.0000059	-0.0001933	-0.0000118
Nó máx		0.00053	-0.00331	-2.46424	0.0001128	-0.0008681	-0.0000532
47 Comb.		1	1	1	1	1	1
48	1	0.00051	-0.00332	-2.44377	-0.0002186	-0.0009010	0.0000487
	2	-0.00011	0.00260	0.73478	0.0002120	0.0002733	-0.0000138
	3	0.00014	0.00017	-0.57135	0.0000351	-0.0002092	0.0000119
Nó máx		0.00051	-0.00332	-2.44377	-0.0002186	-0.0009010	0.0000487
48 Comb.		1	1	1	1	1	1
49	1	0.00096	-0.00341	-1.90516	0.0001239	-0.0016352	-0.0000944
	2	-0.00032	0.00278	0.58541	-0.0001015	0.0005148	0.0000297
	3	0.00021	0.00023	-0.43801	-0.0000089	-0.0003687	-0.0000213
Nó máx		0.00096	-0.00341	-1.90516	0.0001239	-0.0016352	-0.0000944
49 Comb.		1	1	1	1	1	1
50	1	0.00095	-0.00342	-1.88915	-0.0002081	-0.0016659	0.0000898
	2	-0.00025	0.00278	0.56674	0.0001997	0.0005052	-0.0000262
	3	0.00024	0.00023	-0.44243	0.0000321	-0.0003870	0.0000215
Nó máx		0.00095	-0.00342	-1.88915	-0.0002081	-0.0016659	0.0000898
50 Comb.		1	1	1	1	1	1
51	1	0.00086	-0.00352	-1.05481	0.0001450	-0.0020358	-0.0001049
	2	-0.00028	0.00297	0.32195	-0.0001219	0.0006390	0.0000330
	3	0.00018	0.00030	-0.24379	-0.0000122	-0.0004601	-0.0000237
Nó máx		0.00086	-0.00352	-1.05481	0.0001450	-0.0020358	-0.0001049
51 Comb.		1	1	1	1	1	1
52	1	0.00086	-0.00349	-1.04574	-0.0001951	-0.0020661	0.0001002
	2	-0.00022	0.00296	0.31139	0.0001802	0.0006268	-0.0000295
	3	0.00022	0.00031	-0.24628	0.0000260	-0.0004797	0.0000238
Nó máx		0.00086	-0.00349	-1.04574	-0.0001951	-0.0020661	0.0001002
52 Comb.		1	1	1	1	1	1
53	1	-0.00105	-0.00406	-1.05881	0.0001304	0.0020080	0.0001101
	2	0.00031	0.00370	0.32593	-0.0001043	-0.0006167	-0.0000340
	3	-0.00025	0.00051	-0.24309	-0.0000078	0.0004618	0.0000252
Nó máx		-0.00105	-0.00406	-1.05881	0.0001304	0.0020080	0.0001101
53 Comb.		1	1	1	1	1	1
54	1	-0.00101	-0.00402	-1.04380	-0.0002106	0.0019299	-0.0001119
	2	0.00035	0.00369	0.30822	0.0001989	-0.0005800	0.0000345
	3	-0.00021	0.00052	-0.24735	0.0000306	0.0004514	-0.0000257
Nó máx		-0.00101	-0.00402	-1.04380	-0.0002106	0.0019299	-0.0001119
54 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
55	1	-0.00117	-0.00433	-1.91274	0.0000966	0.0016115	0.0001003
	2	0.00034	0.00401	0.59287	-0.0000686	-0.0004926	-0.0000308
	3	-0.00028	0.00058	-0.43673	-0.0000007	0.0003720	0.0000230
Nó máx		-0.00117	-0.00433	-1.91274	0.0000966	0.0016115	0.0001003
55 Comb.		1	1	1	1	1	1
56	1	-0.00110	-0.00434	-1.88564	-0.0002372	0.0015325	-0.0001020
	2	0.00037	0.00401	0.56084	0.0002348	-0.0004597	0.0000315
	3	-0.00023	0.00058	-0.44447	0.0000408	0.0003589	-0.0000234
Nó máx		-0.00110	-0.00434	-1.88564	-0.0002372	0.0015325	-0.0001020
56 Comb.		1	1	1	1	1	1
57	1	-0.00078	-0.00456	-2.47458	0.0000765	0.0008544	0.0000605
	2	0.00023	0.00426	0.76862	-0.0000447	-0.0002575	-0.0000186
	3	-0.00019	0.00064	-0.56408	0.0000051	0.0001994	0.0000139
Nó máx		-0.00078	-0.00456	-2.47458	0.0000765	0.0008544	0.0000605
57 Comb.		1	1	1	1	1	1
58	1	-0.00068	-0.00456	-2.43940	-0.0002577	0.0007728	-0.0000617
	2	0.00024	0.00426	0.72696	0.0002592	-0.0002291	0.0000191
	3	-0.00014	0.00064	-0.57416	0.0000468	0.0001826	-0.0000141
Nó máx		-0.00068	-0.00456	-2.43940	0.0002592	0.0007728	-0.0000617
58 Comb.		1	1	1	2	1	1
59	1	-0.00016	-0.00470	-2.67034	0.0000691	-0.0000711	0.0000078
	2	0.00004	0.00446	0.82992	-0.0000357	0.0000297	-0.0000024
	3	-0.00004	0.00070	-0.60841	0.0000073	-0.0000117	0.0000018
Nó máx		-0.00016	-0.00470	-2.67034	0.0000691	-0.0000711	0.0000078
59 Comb.		1	1	1	1	1	1
60	1	-0.00001	-0.00470	-2.63214	-0.0002656	-0.0001585	-0.0000079
	2	0.00003	0.00447	0.78461	0.0002688	0.0000544	0.0000025
	3	0.00001	0.00070	-0.61940	0.0000492	-0.0000331	-0.0000018
Nó máx		0.00003	-0.00470	-2.63214	0.0002688	-0.0001585	-0.0000079
60 Comb.		2	1	1	2	1	1
61	1	0.00044	-0.00472	-2.47526	0.0000754	-0.0009915	-0.0000442
	2	-0.00014	0.00460	0.76897	-0.0000429	0.0003149	0.0000136
	3	0.00010	0.00077	-0.56414	0.0000057	-0.0002219	-0.0000102
Nó máx		0.00044	-0.00472	-2.47526	0.0000754	-0.0009915	-0.0000442
61 Comb.		1	1	1	1	1	1
62	1	0.00067	-0.00472	-2.43958	-0.0002598	-0.0010911	0.0000459
	2	-0.00019	0.00460	0.72652	0.0002622	0.0003397	-0.0000142
	3	0.00016	0.00077	-0.57449	0.0000477	-0.0002483	0.0000105
Nó máx		0.00067	-0.00472	-2.43958	0.0002622	-0.0010911	0.0000459
62 Comb.		1	1	1	2	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
63	1	0.00076	-0.00457	-1.91398	0.0000949	-0.0017320	-0.0000817
	2	-0.00023	0.00463	0.59347	-0.0000654	0.0005431	0.0000248
	3	0.00018	0.00085	-0.43689	0.0000004	-0.0003918	-0.0000189
Nó máx		0.00076	0.00463	-1.91398	0.0000949	-0.0017320	-0.0000817
63 Comb.		1	2	1	1	1	1
64	1	0.00111	-0.00458	-1.88610	-0.0002409	-0.0018545	0.0000864
	2	-0.00035	0.00463	0.56007	0.0002402	0.0005758	-0.0000272
	3	0.00025	0.00085	-0.44511	0.0000425	-0.0004229	0.0000195
Nó máx		0.00111	0.00463	-1.88610	-0.0002409	-0.0018545	0.0000864
64 Comb.		1	2	1	1	1	1
65	1	0.00054	-0.00424	-1.06047	0.0001290	-0.0020973	-0.0000873
	2	-0.00014	0.00454	0.32660	-0.0001006	0.0006536	0.0000261
	3	0.00014	0.00093	-0.24338	-0.0000063	-0.0004768	-0.0000205
Nó máx		0.00054	0.00454	-1.06047	0.0001290	-0.0020973	-0.0000873
65 Comb.		1	2	1	1	1	1
66	1	0.00104	-0.00421	-1.04466	-0.0002154	-0.0022604	0.0000972
	2	-0.00036	0.00454	0.30727	0.0002059	0.0007080	-0.0000318
	3	0.00022	0.00094	-0.24827	0.0000328	-0.0005118	0.0000212
Nó máx		0.00104	0.00454	-1.04466	-0.0002154	-0.0022604	0.0000972
66 Comb.		1	2	1	1	1	1
67	1	-0.00175	-0.00268	-1.24782	-0.0001475	0.0023677	0.0001542
	2	0.00062	0.00264	0.38921	0.0002032	-0.0007353	-0.0000489
	3	-0.00036	0.00045	-0.28348	0.0000591	0.0005398	0.0000346
Nó máx		-0.00175	-0.00268	-1.24782	0.0002032	0.0023677	0.0001542
67 Comb.		1	1	1	2	1	1
68	1	-0.00074	-0.00264	-1.12070	-0.0004928	0.0018551	-0.0001198
	2	0.00007	0.00263	0.24752	0.0005108	-0.0003810	0.0000260
	3	-0.00026	0.00046	-0.31471	0.0000984	0.0005379	-0.0000339
Nó máx		-0.00074	-0.00264	-1.12070	0.0005108	0.0018551	-0.0001198
68 Comb.		1	1	1	2	1	1
69	1	-0.00198	-0.00094	-2.26938	-0.0004462	0.0019453	0.0001462
	2	0.00068	0.00120	0.71180	0.0005002	-0.0006055	-0.0000467
	3	-0.00041	0.00032	-0.51323	0.0001113	0.0004426	0.0000326
Nó máx		-0.00198	0.00120	-2.26938	0.0005002	0.0019453	0.0001462
69 Comb.		1	2	1	2	1	1
70	1	-0.00070	-0.00095	-2.02348	-0.0007849	0.0013822	-0.0001050
	2	0.00008	0.00120	0.45052	0.0008086	-0.0002783	0.0000232
	3	-0.00024	0.00032	-0.56609	0.0001538	0.0004040	-0.0000295
Nó máx		-0.00070	0.00120	-2.02348	0.0008086	0.0013822	-0.0001050
70 Comb.		1	2	1	2	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
71	1	-0.00164	0.00208	-2.95902	-0.0006691	0.0010805	0.0000998
	2	0.00056	-0.00037	0.92869	0.0006812	-0.0003366	-0.0000325
	3	-0.00035	0.00063	-0.66884	0.0001263	0.0002457	0.0000219
Nó máx		-0.00164	0.00208	-2.95902	0.0006812	0.0010805	0.0000998
71 Comb.		1	1	1	2	1	1
72	1	-0.00012	0.00202	-2.60648	-0.0011316	0.0005229	-0.0000598
	2	-0.00003	-0.00036	0.58568	0.0010575	-0.0000971	0.0000139
	3	-0.00006	0.00062	-0.72604	0.0001579	0.0001577	-0.0000164
Nó máx		-0.00012	0.00202	-2.60648	-0.0011316	0.0005229	-0.0000598
72 Comb.		1	1	1	1	1	1
73	1	0.00099	0.03343	-1.22489	0.0037267	-0.0027561	-0.0001109
	2	-0.00030	-0.00963	0.37985	-0.0011311	0.0008576	0.0000332
	3	0.00023	0.00806	-0.27957	0.0008651	-0.0006274	-0.0000261
Nó máx		0.00099	0.03343	-1.22489	0.0037267	-0.0027561	-0.0001109
73 Comb.		1	1	1	1	1	1
74	1	0.01390	0.03372	-1.14432	-0.0048418	-0.0052378	0.0001075
	2	-0.00405	-0.00972	0.25619	0.0017541	0.0007938	-0.0000328
	3	0.00333	0.00813	-0.31931	-0.0009563	-0.0016847	0.0000249
Nó máx		0.01390	0.03372	-1.14432	-0.0048418	-0.0052378	0.0001075
74 Comb.		1	1	1	1	1	1
75	1	0.00062	0.02533	-2.30528	0.0014081	-0.0021784	-0.0000923
	2	-0.00018	-0.00731	0.71987	-0.0002115	0.0006800	0.0000277
	3	0.00015	0.00610	-0.52322	0.0004540	-0.0004946	-0.0000216
Nó máx		0.00062	0.02533	-2.30528	0.0014081	-0.0021784	-0.0000923
75 Comb.		1	1	1	1	1	1
76	1	0.01009	0.02524	-1.94933	-0.0033394	-0.0038751	0.0000538
	2	-0.00295	-0.00728	0.42904	0.0014352	0.0005443	-0.0000155
	3	0.00240	0.00608	-0.54828	-0.0005268	-0.0012717	0.0000130
Nó máx		0.01009	0.02524	-1.94933	-0.0033394	-0.0038751	0.0000538
76 Comb.		1	1	1	1	1	1
77	1	-0.00010	0.01738	-2.99336	0.0000668	-0.0011633	-0.0000320
	2	0.00005	-0.00499	0.93768	0.0003828	0.0003635	0.0000088
	3	-0.00001	0.00420	-0.67766	0.0002529	-0.0002639	-0.0000079
Nó máx		-0.00010	0.01738	-2.99336	0.0003828	-0.0011633	-0.0000320
77 Comb.		1	1	1	2	1	1
78	1	0.00657	0.01738	-2.46665	-0.0027583	-0.0017305	0.0000596
	2	-0.00193	-0.00499	0.54797	0.0013589	0.0001404	-0.0000176
	3	0.00156	0.00420	-0.69080	-0.0003329	-0.0006284	0.0000141
Nó máx		0.00657	0.01738	-2.46665	-0.0027583	-0.0017305	0.0000596
78 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
79	1	-0.00095	0.00928	-3.19762	0.0000293	-0.0000219	0.0000348
	2	0.00032	-0.00260	1.00511	0.0005458	0.0000069	-0.0000123
	3	-0.00020	0.00228	-0.72188	0.0003336	-0.0000050	0.0000071
Nó máx		-0.00095	0.00928	-3.19762	0.0005458	-0.0000219	0.0000348
79 Comb.		1	1	1	2	1	1
80	1	0.00297	0.00927	-2.69613	-0.0034352	0.0006007	0.0000564
	2	-0.00087	-0.00259	0.61580	0.0015635	-0.0003033	-0.0000172
	3	0.00071	0.00228	-0.74514	-0.0004905	0.0000682	0.0000130
Nó máx		0.00297	0.00927	-2.69613	-0.0034352	0.0006007	0.0000564
80 Comb.		1	1	1	1	1	1
81	1	0.00000	0.00000	0.00000	-0.0002705	0.0033162	-0.0000175
	2	0.00000	0.00000	0.00000	-0.0000089	-0.0010101	0.0000062
	3	0.00000	0.00000	0.00000	-0.0001164	0.0007676	-0.0000035
Nó máx		0.00000	0.00000	0.00000	-0.0002705	0.0033162	-0.0000175
81 Comb.		0	0	0	1	1	1
82	1	0.00000	0.00000	0.00000	0.0017934	-0.0112004	-0.0000380
	2	0.00000	0.00000	0.00000	-0.0006111	0.0048521	0.0000116
	3	0.00000	0.00000	0.00000	0.0003770	-0.0017441	-0.0000088
Nó máx		0.00000	0.00000	0.00000	0.0017934	-0.0112004	-0.0000380
82 Comb.		0	0	0	1	1	1
83	1	0.00000	0.00000	0.00000	-0.0002866	0.0036722	0.0000122
	2	0.00000	0.00000	0.00000	0.0001972	-0.0011430	-0.0000032
	3	0.00000	0.00000	0.00000	-0.0000016	0.0008357	0.0000032
Nó máx		0.00000	0.00000	0.00000	-0.0002866	0.0036722	0.0000122
83 Comb.		0	0	0	1	1	1
84	1	0.00000	0.00000	0.00000	0.0001466	-0.0068389	-0.0000851
	2	0.00000	0.00000	0.00000	-0.0000444	0.0022727	0.0000264
	3	0.00000	0.00000	0.00000	0.0000341	-0.0014714	-0.0000194
Nó máx		0.00000	0.00000	0.00000	0.0001466	-0.0068389	-0.0000851
84 Comb.		0	0	0	1	1	1
85	1	0.00004	-0.00009	-0.00833	0.0010379	0.0000001	0.0000011
	2	-0.00005	0.00220	0.00211	-0.0002805	-0.0000001	-0.0000002
	3	-0.00002	0.00126	-0.00218	0.0002612	0.0000000	0.0000003
Nó máx		-0.00005	0.00220	-0.00833	0.0010379	-0.0000001	0.0000011
85 Comb.		2	2	1	1	2	1
86	1	0.00505	0.06342	-0.01204	0.0036398	0.0000121	0.0003039
	2	-0.00189	-0.01885	0.00346	-0.0011635	-0.0000044	-0.0001327
	3	0.00096	0.01495	-0.00291	0.0008103	0.0000024	0.0000467
Nó máx		0.00505	0.06342	-0.01204	0.0036398	0.0000121	0.0003039
86 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
87	1	-0.00159	0.00047	-0.00735	0.0009159	-0.0000042	0.0000017
	2	0.00045	0.00075	0.00180	-0.0002399	0.0000012	-0.0000004
	3	-0.00038	0.00063	-0.00196	0.0002351	-0.0000010	0.0000004
Nó máx		-0.00159	0.00075	-0.00735	0.0009159	-0.0000042	0.0000017
87 Comb.		1	2	1	1	1	1
88	1	0.24422	0.01913	-0.01224	-0.0042592	0.0006598	0.0003861
	2	-0.10114	-0.00446	0.00321	0.0013420	-0.0002726	-0.0001522
	3	0.04077	0.00523	-0.00314	-0.0009596	0.0001105	0.0000690
Nó máx		0.24422	0.01913	-0.01224	-0.0042592	0.0006598	0.0003861
88 Comb.		1	1	1	1	1	1
89	1	0.01189	0.06357	-0.11848	0.0045655	-0.0011683	0.0003037
	2	-0.00487	-0.01890	0.03742	-0.0014609	0.0004809	-0.0001326
	3	0.00201	0.01499	-0.02664	0.0010155	-0.0001968	0.0000467
Nó máx		0.01189	0.06357	-0.11848	0.0045655	-0.0011683	0.0003037
89 Comb.		1	1	1	1	1	1
90	1	0.00020	0.02102	-0.11916	0.0050437	-0.0011684	-0.0000015
	2	-0.00006	-0.00504	0.03764	-0.0016705	0.0004809	-0.0000007
	3	0.00005	0.00567	-0.02679	0.0010885	-0.0001968	-0.0000010
Nó máx		0.00020	0.02102	-0.11916	0.0050437	-0.0011684	-0.0000015
90 Comb.		1	1	1	1	1	1
91	1	0.00039	0.02102	0.03640	0.0049683	-0.0007640	-0.0000123
	2	-0.00010	-0.00504	-0.01361	-0.0016330	0.0002712	0.0000042
	3	0.00010	0.00567	0.00694	0.0010796	-0.0001542	-0.0000026
Nó máx		0.00039	0.02102	0.03640	0.0049683	-0.0007640	-0.0000123
91 Comb.		1	1	1	1	1	1
92	1	0.02979	0.06960	-0.14843	-0.0058172	-0.0204884	0.0000287
	2	-0.00894	-0.02080	0.04591	0.0019074	0.0088437	-0.0000023
	3	0.00697	0.01635	-0.03395	-0.0012668	-0.0032094	0.0000104
Nó máx		0.02979	0.06960	-0.14843	-0.0058172	-0.0204884	0.0000287
92 Comb.		1	1	1	1	1	1
93	1	-0.00025	0.03771	-0.77892	0.0055692	0.0010499	0.0000744
	2	0.00012	-0.01088	0.24718	-0.0023424	-0.0003645	-0.0000262
	3	-0.00003	0.00909	-0.17446	0.0009086	0.0002167	0.0000152
Nó máx		-0.00025	0.03771	-0.77892	0.0055692	0.0010499	0.0000744
93 Comb.		1	1	1	1	1	1
94	1	0.01619	0.03797	-1.82788	-0.0028735	0.0138093	-0.0000503
	2	-0.00472	-0.01097	0.66105	0.0012902	-0.0051794	0.0000151
	3	0.00387	0.00914	-0.36170	-0.0004208	0.0026234	-0.0000118
Nó máx		0.01619	0.03797	-1.82788	-0.0028735	0.0138093	-0.0000503
94 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
95	1	0.00006	0.03407	-1.45187	0.0050841	0.0005927	0.0000615
	2	0.00003	-0.00991	0.46438	-0.0025248	-0.0002094	-0.0000219
	3	0.00004	0.00816	-0.32305	0.0006019	0.0001202	0.0000124
Nó máx		0.00006	0.03407	-1.45187	0.0050841	0.0005927	0.0000615
95 Comb.		1	1	1	1	1	1
96	1	0.01461	0.03397	-3.22150	-0.0006764	0.0096586	-0.0000096
	2	-0.00429	-0.00987	1.17625	0.0008323	-0.0038508	0.0000024
	3	0.00348	0.00814	-0.63087	0.0002123	0.0017005	-0.0000025
Nó máx		0.01461	0.03397	-3.22150	0.0008323	0.0096586	-0.0000096
96 Comb.		1	1	1	2	1	1
97	1	0.00076	0.02958	-1.82840	0.0047899	-0.0002427	0.0000099
	2	-0.00021	-0.00864	0.58449	-0.0026332	0.0000741	-0.0000045
	3	0.00019	0.00706	-0.40701	0.0004171	-0.0000560	0.0000014
Nó máx		0.00076	0.02958	-1.82840	0.0047899	-0.0002427	0.0000099
97 Comb.		1	1	1	1	1	1
98	1	0.01279	0.02958	-4.12698	0.0004124	0.0047104	-0.0000255
	2	-0.00378	-0.00864	1.51660	0.0006557	-0.0021551	0.0000075
	3	0.00303	0.00706	-0.80246	0.0005557	0.0006661	-0.0000061
Nó máx		0.01279	0.02958	-4.12698	0.0006557	0.0047104	-0.0000255
98 Comb.		1	1	1	2	1	1
99	1	0.00168	0.02405	-1.86427	0.0043890	-0.0011833	-0.0000500
	2	-0.00051	-0.00705	0.59360	-0.0025383	0.0003920	0.0000156
	3	0.00039	0.00573	-0.41639	0.0003083	-0.0002553	-0.0000113
Nó máx		0.00168	0.02405	-1.86427	0.0043890	-0.0011833	-0.0000500
99 Comb.		1	1	1	1	1	1
100	1	0.01042	0.02402	-4.42425	0.0006717	-0.0005143	-0.0000310
	2	-0.00308	-0.00704	1.63462	0.0006751	-0.0002788	0.0000090
	3	0.00246	0.00572	-0.85509	0.0006737	-0.0003756	-0.0000074
Nó máx		0.01042	0.02402	-4.42425	0.0006751	-0.0005143	-0.0000310
100 Comb.		1	1	1	2	1	1
101	1	0.00262	0.01757	-1.56806	0.0036502	-0.0020838	-0.0001092
	2	-0.00082	-0.00517	0.49643	-0.0021422	0.0006930	0.0000354
	3	0.00059	0.00417	-0.35191	0.0002380	-0.0004481	-0.0000240
Nó máx		0.00262	0.01757	-1.56806	0.0036502	-0.0020838	-0.0001092
101 Comb.		1	1	1	1	1	1
102	1	0.00761	0.01754	-4.07305	0.0003841	-0.0054997	-0.0000336
	2	-0.00226	-0.00516	1.51158	0.0008004	0.0015798	0.0000095
	3	0.00180	0.00417	-0.78325	0.0006293	-0.0013293	-0.0000082
Nó máx		0.00761	0.01754	-4.07305	0.0008004	-0.0054997	-0.0000336
102 Comb.		1	1	1	2	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
103	1	0.00342	0.01047	-0.99664	0.0024208	-0.0028069	-0.0001589
	2	-0.00109	-0.00311	0.31431	-0.0013817	0.0009305	0.0000517
	3	0.00076	0.00247	-0.22439	0.0001808	-0.0006053	-0.0000348
Nó máx		0.00342	0.01047	-0.99664	0.0024208	-0.0028069	-0.0001589
103 Comb.		1	1	1	1	1	1
104	1	0.00451	0.01041	-3.11382	-0.0002406	-0.0096846	-0.0000344
	2	-0.00135	-0.00309	1.15948	0.0009735	0.0031930	0.0000095
	3	0.00106	0.00246	-0.59650	0.0004746	-0.0020987	-0.0000085
Nó máx		0.00451	0.01041	-3.11382	0.0009735	-0.0096846	-0.0000344
104 Comb.		1	1	1	2	1	1
105	1	0.00401	0.00315	-0.24114	0.0009592	-0.0032211	-0.0001886
	2	-0.00128	-0.00096	0.07399	-0.0005138	0.0010636	0.0000613
	3	0.00089	0.00073	-0.05550	0.0000915	-0.0006970	-0.0000414
Nó máx		0.00401	0.00315	-0.24114	0.0009592	-0.0032211	-0.0001886
105 Comb.		1	1	1	1	1	1
106	1	0.00137	0.00320	-1.66994	-0.0005982	-0.0126599	-0.0000205
	2	-0.00042	-0.00097	0.62302	0.0007165	0.0045008	0.0000054
	3	0.00031	0.00074	-0.31920	0.0001763	-0.0025509	-0.0000052
Nó máx		0.00137	0.00320	-1.66994	0.0007165	-0.0126599	-0.0000205
106 Comb.		1	1	1	2	1	1
107	1	-0.00138	-0.00010	-0.00023	-0.0000784	0.0012807	-0.0000781
	2	0.00045	0.00003	0.00280	-0.0000632	-0.0003892	0.0000248
	3	-0.00030	-0.00002	0.00156	-0.0000694	0.0002970	-0.0000175
Nó máx		-0.00138	-0.00010	0.00280	-0.0000784	0.0012807	-0.0000781
107 Comb.		1	1	2	1	1	1
108	1	-0.00130	-0.00010	-0.00139	-0.0001641	0.0014085	0.0000791
	2	0.00038	0.00003	0.00377	0.0001582	-0.0004307	-0.0000241
	3	-0.00031	-0.00002	0.00165	0.0000257	0.0003251	0.0000183
Nó máx		-0.00130	-0.00010	0.00377	-0.0001641	0.0014085	0.0000791
108 Comb.		1	1	2	1	1	1
109	1	0.00276	0.00113	-0.00779	-0.0001992	0.0013905	0.0001809
	2	-0.00082	-0.00153	0.01391	0.0001740	-0.0004238	-0.0000560
	3	0.00065	-0.00044	0.00499	0.0000206	0.0003217	0.0000414
Nó máx		0.00276	-0.00153	0.01391	-0.0001992	0.0013905	0.0001809
109 Comb.		1	2	2	1	1	1
110	1	0.00247	0.00328	-0.81972	-0.0004175	0.0007726	0.0000823
	2	-0.00073	-0.00112	0.25611	0.0001648	-0.0002295	-0.0000249
	3	0.00059	0.00069	-0.18597	-0.0000745	0.0001823	0.0000192
Nó máx		0.00247	0.00328	-0.81972	-0.0004175	0.0007726	0.0000823
110 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
111	1	0.00225	0.00091	-0.90893	-0.0002319	0.0002626	-0.0000021
	2	-0.00066	0.00084	0.27201	0.0000049	-0.0000721	0.0000011
	3	0.00054	0.00087	-0.21326	-0.0000924	0.0000654	-0.0000002
Nó máx		0.00225	0.00091	-0.90893	-0.0002319	0.0002626	-0.0000021
111 Comb.		1	1	1	1	1	1
112	1	0.00204	-0.00040	-0.78666	-0.0001451	-0.0002076	-0.0000829
	2	-0.00059	0.00140	0.23330	-0.0000249	0.0000727	0.0000260
	3	0.00049	0.00066	-0.18582	-0.0000743	-0.0000425	-0.0000188
Nó máx		0.00204	0.00140	-0.78666	-0.0001451	-0.0002076	-0.0000829
112 Comb.		1	2	1	1	1	1
113	1	0.00190	-0.00207	-0.46545	-0.0000258	-0.0004820	-0.0001370
	2	-0.00055	0.00209	0.13337	-0.0000651	0.0001572	0.0000426
	3	0.00046	0.00038	-0.11270	-0.0000490	-0.0001054	-0.0000312
Nó máx		0.00190	0.00209	-0.46545	-0.0000651	-0.0004820	-0.0001370
113 Comb.		1	2	1	2	1	1
114	1	0.00187	-0.01110	0.01504	0.0004658	0.0003667	0.0000135
	2	-0.00054	0.00384	-0.00426	-0.0001137	-0.0001041	-0.0000038
	3	0.00045	-0.00230	0.00367	0.0001244	0.0000894	0.0000033
Nó máx		0.00187	-0.01110	0.01504	0.0004658	0.0003667	0.0000135
114 Comb.		1	1	1	1	1	1
115	1	0.00185	-0.00384	-1.04361	0.0000859	0.0022475	0.0003608
	2	-0.00053	0.00290	0.31333	-0.0000880	-0.0006870	-0.0001114
	3	0.00045	0.00013	-0.24426	-0.0000165	0.0005188	0.0000826
Nó máx		0.00185	-0.00384	-1.04361	-0.0000880	0.0022475	0.0003608
115 Comb.		1	1	1	2	1	1
116	1	0.00159	-0.00377	-1.89659	0.0000659	0.0018014	0.0002793
	2	-0.00045	0.00288	0.57857	-0.0000682	-0.0005486	-0.0000862
	3	0.00039	0.00015	-0.43852	-0.0000131	0.0004171	0.0000640
Nó máx		0.00159	-0.00377	-1.89659	-0.0000682	0.0018014	0.0002793
116 Comb.		1	1	1	2	1	1
117	1	0.00117	-0.00380	-2.45782	0.0000546	0.0010170	0.0001503
	2	-0.00031	0.00292	0.75329	-0.0000547	-0.0003060	-0.0000463
	3	0.00030	0.00016	-0.56622	-0.0000098	0.0002376	0.0000345
Nó máx		0.00117	-0.00380	-2.45782	-0.0000547	0.0010170	0.0001503
117 Comb.		1	1	1	2	1	1
118	1	0.00066	-0.00388	-2.65363	0.0000503	0.0000770	-0.0000009
	2	-0.00015	0.00305	0.81435	-0.0000496	-0.0000151	0.0000004
	3	0.00018	0.00020	-0.61071	-0.0000086	0.0000228	-0.0000001
Nó máx		0.00066	-0.00388	-2.65363	0.0000503	0.0000770	-0.0000009
118 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
119	1	0.00015	-0.00404	-2.45930	0.0000539	-0.0008539	-0.0001513
	2	0.00001	0.00328	0.75398	-0.0000537	0.0002731	0.0000470
	3	0.00007	0.00027	-0.56642	-0.0000095	-0.0001900	-0.0000345
Nó máx		0.00015	-0.00404	-2.45930	0.0000539	-0.0008539	-0.0001513
119 Comb.		1	1	1	1	1	1
120	1	-0.00027	-0.00426	-1.89940	0.0000650	-0.0016085	-0.0002779
	2	0.00014	0.00360	0.57981	-0.0000667	0.0005066	0.0000861
	3	-0.00003	0.00037	-0.43894	-0.0000125	-0.0003625	-0.0000635
Nó máx		-0.00027	-0.00426	-1.89940	-0.0000667	-0.0016085	-0.0002779
120 Comb.		1	1	1	2	1	1
121	1	-0.00050	-0.00460	-1.04749	0.0000862	-0.0019994	-0.0003549
	2	0.00022	0.00400	0.31485	-0.0000870	0.0006278	0.0001099
	3	-0.00008	0.00047	-0.24496	-0.0000159	-0.0004518	-0.0000811
Nó máx		-0.00050	-0.00460	-1.04749	-0.0000870	-0.0019994	-0.0003549
121 Comb.		1	1	1	2	1	1
122	1	-0.00050	-0.01321	0.01742	0.0005360	-0.0000232	0.0000022
	2	0.00022	0.00579	-0.00493	-0.0001356	0.0000181	-0.0000003
	3	-0.00007	-0.00202	0.00426	0.0001404	0.0000012	0.0000007
Nó máx		-0.00050	-0.01321	0.01742	0.0005360	-0.0000232	0.0000022
122 Comb.		1	1	1	1	1	1
123	1	-0.00049	-0.00498	-1.05257	0.0000716	0.0019713	0.0003625
	2	0.00022	0.00455	0.32012	-0.0000694	-0.0006052	-0.0001130
	3	-0.00007	0.00064	-0.24394	-0.0000115	0.0004535	0.0000824
Nó máx		-0.00049	-0.00498	-1.05257	0.0000716	0.0019713	0.0003625
123 Comb.		1	1	1	1	1	1
124	1	-0.00073	-0.00489	-1.90899	0.0000377	0.0015845	0.0002858
	2	0.00030	0.00447	0.58970	-0.0000337	-0.0004842	-0.0000891
	3	-0.00012	0.00063	-0.43706	-0.0000044	0.0003659	0.0000650
Nó máx		-0.00073	-0.00489	-1.90899	0.0000377	0.0015845	0.0002858
124 Comb.		1	1	1	1	1	1
125	1	-0.00115	-0.00490	-2.47232	0.0000176	0.0008399	0.0001600
	2	0.00044	0.00447	0.76721	-0.0000099	-0.0002529	-0.0000500
	3	-0.00021	0.00062	-0.56398	0.0000014	0.0001962	0.0000363
Nó máx		-0.00115	-0.00490	-2.47232	0.0000176	0.0008399	0.0001600
125 Comb.		1	1	1	1	1	1
126	1	-0.00167	-0.00495	-2.66862	0.0000102	-0.0000716	0.0000111
	2	0.00061	0.00458	0.82918	-0.0000009	0.0000299	-0.0000038
	3	-0.00033	0.00066	-0.60814	0.0000037	-0.0000118	0.0000023
Nó máx		-0.00167	-0.00495	-2.66862	0.0000102	-0.0000716	0.0000111
126 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
127	1	-0.00219	-0.00505	-2.47307	0.0000166	-0.0009779	-0.0001374
	2	0.00077	0.00479	0.76770	-0.0000080	0.0003107	0.0000423
	3	-0.00044	0.00075	-0.56400	0.0000021	-0.0002188	-0.0000315
Nó máx		-0.00219	-0.00505	-2.47307	0.0000166	-0.0009779	-0.0001374
127 Comb.		1	1	1	1	1	1
128	1	-0.00261	-0.00511	-1.91036	0.0000360	-0.0017058	-0.0002617
	2	0.00091	0.00506	0.59053	-0.0000306	0.0005350	0.0000808
	3	-0.00054	0.00088	-0.43713	-0.0000032	-0.0003858	-0.0000599
Nó máx		-0.00261	-0.00511	-1.91036	0.0000360	-0.0017058	-0.0002617
128 Comb.		1	1	1	1	1	1
129	1	-0.00287	-0.00514	-1.05434	0.0000701	-0.0020612	-0.0003356
	2	0.00100	0.00535	0.32106	-0.0000658	0.0006423	0.0001035
	3	-0.00059	0.00104	-0.24412	-0.0000099	-0.0004686	-0.0000769
Nó máx		-0.00287	0.00535	-1.05434	0.0000701	-0.0020612	-0.0003356
129 Comb.		1	2	1	1	1	1
130	1	-0.00288	-0.01402	0.01802	0.0005602	-0.0000443	0.0000249
	2	0.00101	0.00716	-0.00445	-0.0001356	0.0000094	-0.0000092
	3	-0.00059	-0.00155	0.00478	0.0001503	-0.0000127	0.0000048
Nó máx		-0.00288	-0.01402	0.01802	0.0005602	-0.0000443	0.0000249
130 Comb.		1	1	1	1	1	1
131	1	-0.00290	-0.00062	-1.26210	-0.0002064	0.0023245	0.0004518
	2	0.00102	0.00019	0.40610	0.0002381	-0.0007219	-0.0001409
	3	-0.00059	-0.00014	-0.27939	0.0000554	0.0005299	0.0001027
Nó máx		-0.00290	-0.00062	-1.26210	0.0002381	0.0023245	0.0004518
131 Comb.		1	1	1	2	1	1
132	1	-0.00320	0.00433	-2.30571	-0.0005051	0.0019130	0.0003680
	2	0.00112	-0.00444	0.75061	0.0005350	-0.0005956	-0.0001152
	3	-0.00065	-0.00084	-0.50529	0.0001076	0.0004353	0.0000834
Nó máx		-0.00320	-0.00444	-2.30571	0.0005350	0.0019130	0.0003680
132 Comb.		1	2	1	2	1	1
133	1	-0.00372	0.00974	-3.01179	-0.0007279	0.0010625	0.0002234
	2	0.00129	-0.00795	0.98087	0.0007160	-0.0003311	-0.0000706
	3	-0.00077	-0.00068	-0.65979	0.0001227	0.0002416	0.0000502
Nó máx		-0.00372	0.00974	-3.01179	-0.0007279	0.0010625	0.0002234
133 Comb.		1	1	1	1	1	1
134	1	-0.00435	0.00945	-3.19884	-0.0000295	-0.0000236	0.0000466
	2	0.00149	-0.00873	1.04729	0.0005806	0.0000074	-0.0000160
	3	-0.00091	-0.00126	-0.69753	0.0003299	-0.0000053	0.0000097
Nó máx		-0.00435	0.00945	-3.19884	0.0005806	-0.0000236	0.0000466
134 Comb.		1	1	1	2	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
135	1	-0.00500	0.01715	-2.99182	0.0000079	-0.0011484	-0.0001343
	2	0.00170	-0.00937	0.96783	0.0004176	0.0003589	0.0000401
	3	-0.00105	0.00153	-0.65927	0.0002493	-0.0002605	-0.0000316
Nó máx		-0.00500	0.01715	-2.99182	0.0004176	-0.0011484	-0.0001343
135 Comb.		1	1	1	2	1	1
136	1	-0.00555	0.01070	-2.20472	0.0013493	-0.0021488	-0.0002961
	2	0.00188	-0.00531	0.70616	-0.0001766	0.0006709	0.0000903
	3	-0.00118	0.00127	-0.48998	0.0004504	-0.0004878	-0.0000685
Nó máx		-0.00555	0.01070	-2.20472	0.0013493	-0.0021488	-0.0002961
136 Comb.		1	1	1	1	1	1
137	1	-0.00591	-0.00608	-0.95316	0.0036679	-0.0027148	-0.0003954
	2	0.00199	0.00223	0.29825	-0.0010962	0.0008448	0.0001208
	3	-0.00125	-0.00118	-0.21598	0.0008614	-0.0006179	-0.0000913
Nó máx		-0.00591	-0.00608	-0.95316	0.0036679	-0.0027148	-0.0003954
137 Comb.		1	1	1	1	1	1
138	1	-0.00598	-0.03181	0.39978	0.0049095	-0.0007613	-0.0000304
	2	0.00202	0.01221	-0.13227	-0.0015982	0.0002699	0.0000136
	3	-0.00127	-0.00588	0.08636	0.0010760	-0.0001539	-0.0000045
Nó máx		-0.00598	-0.03181	0.39978	0.0049095	-0.0007613	-0.0000304
138 Comb.		1	1	1	1	1	1
139	1	-0.00604	-0.02157	-0.37119	0.0055103	0.0010169	0.0003013
	2	0.00205	0.01398	0.07616	-0.0023076	-0.0003534	-0.0001027
	3	-0.00128	-0.00062	-0.10766	0.0009049	0.0002097	0.0000633
Nó máx		-0.00604	-0.02157	-0.37119	0.0055103	0.0010169	0.0003013
139 Comb.		1	1	1	1	1	1
140	1	-0.00632	-0.02000	-1.07994	0.0050253	0.0005693	0.0002223
	2	0.00214	0.01691	0.27989	-0.0024899	-0.0002016	-0.0000758
	3	-0.00133	0.00174	-0.27889	0.0005982	0.0001152	0.0000467
Nó máx		-0.00632	-0.02000	-1.07994	0.0050253	0.0005693	0.0002223
140 Comb.		1	1	1	1	1	1
141	1	-0.00675	-0.02134	-1.47819	0.0047310	-0.0002546	0.0000919
	2	0.00229	0.01934	0.39200	-0.0025983	0.0000781	-0.0000314
	3	-0.00143	0.00263	-0.37650	0.0004135	-0.0000586	0.0000193
Nó máx		-0.00675	-0.02134	-1.47819	0.0047310	-0.0002546	0.0000919
141 Comb.		1	1	1	1	1	1
142	1	-0.00727	-0.02256	-1.54366	0.0043301	-0.0011831	-0.0000512
	2	0.00247	0.01992	0.40812	-0.0025034	0.0003918	0.0000171
	3	-0.00153	0.00246	-0.39391	0.0003046	-0.0002554	-0.0000110
Nó máx		-0.00727	-0.02256	-1.54366	0.0043301	-0.0011831	-0.0000512
142 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
143	1	-0.00778	-0.02111	-1.30199	0.0035914	-0.0020727	-0.0001858
	2	0.00264	0.01754	0.34019	-0.0021073	0.0006891	0.0000621
	3	-0.00164	0.00166	-0.33461	0.0002344	-0.0004458	-0.0000398
Nó máx		-0.00778	-0.02111	-1.30199	0.0035914	-0.0020727	-0.0001858
143 Comb.		1	1	1	1	1	1
144	1	-0.00822	-0.01503	-0.82132	0.0023619	-0.0027876	-0.0002914
	2	0.00279	0.01145	0.21420	-0.0013469	0.0009239	0.0000967
	3	-0.00174	0.00057	-0.21131	0.0001771	-0.0006012	-0.0000628
Nó máx		-0.00822	-0.01503	-0.82132	0.0023619	-0.0027876	-0.0002914
144 Comb.		1	1	1	1	1	1
145	1	-0.00853	-0.00681	-0.17263	0.0009197	-0.0031980	-0.0003476
	2	0.00289	0.00441	0.03707	-0.0004947	0.0010559	0.0001146
	3	-0.00180	-0.00020	-0.04910	0.0000865	-0.0006921	-0.0000753
Nó máx		-0.00853	-0.00681	-0.17263	0.0009197	-0.0031980	-0.0003476
145 Comb.		1	1	1	1	1	1
146	1	0.00195	-0.00028	-0.00322	-0.0000493	0.0012717	-0.0001700
	2	-0.00048	0.00103	0.01014	-0.0000736	-0.0003878	0.0000530
	3	0.00052	0.00049	0.00465	-0.0000636	0.0002941	-0.0000386
Nó máx		0.00195	0.00103	0.01014	-0.0000736	0.0012717	-0.0001700
146 Comb.		1	2	2	2	1	1
147	1	0.00171	0.00277	-0.61233	-0.0003427	0.0007724	-0.0000907
	2	-0.00040	-0.00063	0.18493	0.0001005	-0.0002323	0.0000283
	3	0.00047	0.00077	-0.14268	-0.0000816	0.0001805	-0.0000206
Nó máx		0.00171	0.00277	-0.61233	-0.0003427	0.0007724	-0.0000907
147 Comb.		1	1	1	1	1	1
148	1	0.00151	0.00344	-0.72456	-0.0004396	0.0003037	-0.0000133
	2	-0.00034	-0.00177	0.20807	0.0002291	-0.0000904	0.0000049
	3	0.00042	0.00037	-0.17517	-0.0000457	0.0000715	-0.0000026
Nó máx		0.00151	0.00344	-0.72456	-0.0004396	0.0003037	-0.0000133
148 Comb.		1	1	1	1	1	1
149	1	0.00130	0.00215	-0.64927	-0.0003560	-0.0001388	0.0000626
	2	-0.00028	-0.00124	0.18494	0.0002026	0.0000435	-0.0000181
	3	0.00037	0.00015	-0.15786	-0.0000269	-0.0000314	0.0000151
Nó máx		0.00130	0.00215	-0.64927	-0.0003560	-0.0001388	0.0000626
149 Comb.		1	1	1	1	1	1
150	1	0.00116	0.00058	-0.39184	-0.0002437	-0.0004026	0.0001141
	2	-0.00024	-0.00057	0.10705	0.0001631	0.0001237	-0.0000338
	3	0.00034	-0.00010	-0.09796	-0.0000041	-0.0000926	0.0000270
Nó máx		0.00116	0.00058	-0.39184	-0.0002437	-0.0004026	0.0001141
150 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
151	1	0.00111	0.00587	0.01556	-0.0004653	0.0003557	-0.0000203
	2	-0.00022	-0.00065	-0.00468	0.0001150	-0.0001076	0.0000072
	3	0.00033	0.00203	0.00363	-0.0001235	0.0000828	-0.0000041
Nó máx		0.00111	0.00587	0.01556	-0.0004653	0.0003557	-0.0000203
151 Comb.		1	1	1	1	1	1
152	1	0.00108	-0.00115	-1.03134	-0.0001332	0.0022158	-0.0003651
	2	-0.00021	0.00022	0.29944	0.0001416	-0.0006719	0.0001118
	3	0.00032	-0.00034	-0.24740	0.0000287	0.0005147	-0.0000842
Nó máx		0.00108	-0.00115	-1.03134	0.0001416	0.0022158	-0.0003651
152 Comb.		1	1	1	2	1	1
153	1	0.00081	-0.00120	-1.87502	-0.0001473	0.0017647	-0.0002837
	2	-0.00013	0.00021	0.55370	0.0001621	-0.0005351	0.0000871
	3	0.00026	-0.00037	-0.44431	0.0000350	0.0004099	-0.0000653
Nó máx		0.00081	-0.00120	-1.87502	0.0001621	0.0017647	-0.0002837
153 Comb.		1	1	1	2	1	1
154	1	0.00037	-0.00122	-2.42997	-0.0001592	0.0009795	-0.0001552
	2	0.00000	0.00024	0.72096	0.0001762	-0.0002971	0.0000481
	3	0.00015	-0.00036	-0.57382	0.0000384	0.0002275	-0.0000354
Nó máx		0.00037	-0.00122	-2.42997	0.0001762	0.0009795	-0.0001552
154 Comb.		1	1	1	2	1	1
155	1	-0.00015	-0.00130	-2.62339	-0.0001640	0.0000413	-0.0000049
	2	0.00016	0.00036	0.77914	0.0001820	-0.0000125	0.0000025
	3	0.00003	-0.00032	-0.61903	0.0000398	0.0000096	-0.0000005
Nó máx		0.00016	-0.00130	-2.62339	0.0001820	0.0000413	-0.0000049
155 Comb.		2	1	1	2	1	1
156	1	-0.00068	-0.00144	-2.43095	-0.0001610	-0.0008871	0.0001445
	2	0.00032	0.00058	0.72095	0.0001786	0.0002691	-0.0000428
	3	-0.00009	-0.00025	-0.57423	0.0000390	-0.0002060	0.0000341
Nó máx		-0.00068	-0.00144	-2.43095	0.0001786	-0.0008871	0.0001445
156 Comb.		1	1	1	2	1	1
157	1	-0.00111	-0.00166	-1.87710	-0.0001505	-0.0016397	0.0002702
	2	0.00045	0.00090	0.55382	0.0001663	0.0004972	-0.0000809
	3	-0.00019	-0.00015	-0.44510	0.0000361	-0.0003809	0.0000633
Nó máx		-0.00111	-0.00166	-1.87710	0.0001663	-0.0016397	0.0002702
157 Comb.		1	1	1	2	1	1
158	1	-0.00137	-0.00187	-1.03464	-0.0001376	-0.0020303	0.0003464
	2	0.00053	0.00128	0.29989	0.0001470	0.0006160	-0.0001041
	3	-0.00025	-0.00001	-0.24850	0.0000300	-0.0004714	0.0000810
Nó máx		-0.00137	-0.00187	-1.03464	0.0001470	-0.0020303	0.0003464
158 Comb.		1	1	1	2	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
167	1	-0.00404	0.00618	0.01927	-0.0005655	-0.0003093	-0.0000145
	2	0.00134	0.00195	-0.00629	0.0001385	0.0001347	0.0000017
	3	-0.00087	0.00369	0.00422	-0.0001508	-0.0000478	-0.0000050
Nó máx		-0.00404	0.00618	0.01927	-0.0005655	-0.0003093	-0.0000145
167 Comb.		1	1	1	1	1	1
168	1	-0.00412	0.00218	-1.08757	-0.0004363	0.0018139	-0.0004032
	2	0.00137	-0.00260	0.21155	0.0004787	-0.0003711	0.0000940
	3	-0.00089	-0.00064	-0.32228	0.0001027	0.0005268	-0.0001103
Nó máx		-0.00412	-0.00260	-1.08757	0.0004787	0.0018139	-0.0004032
168 Comb.		1	2	1	2	1	1
169	1	-0.00447	0.00701	-1.96878	-0.0007285	0.0013512	-0.0003178
	2	0.00146	-0.00723	0.39257	0.0007766	-0.0002707	0.0000753
	3	-0.00098	-0.00138	-0.57776	0.0001581	0.0003958	-0.0000863
Nó máx		-0.00447	-0.00723	-1.96878	0.0007766	0.0013512	-0.0003178
169 Comb.		1	2	1	2	1	1
170	1	-0.00503	0.01384	-2.52545	-0.0010890	0.0005055	-0.0001797
	2	0.00160	-0.01153	0.50894	0.0010334	-0.0000924	0.0000462
	3	-0.00112	-0.00111	-0.73795	0.0001612	0.0001533	-0.0000466
Nó máx		-0.00503	0.01384	-2.52545	-0.0010890	0.0005055	-0.0001797
170 Comb.		1	1	1	1	1	1
171	1	0.00035	-0.00698	-0.04137	-0.0010668	-0.0000289	0.0000005
	2	-0.00010	0.00412	0.01081	0.0002711	0.0000090	0.0000000
	3	0.00009	-0.00044	-0.01063	-0.0002787	-0.0000066	0.0000002
Nó máx		0.00035	-0.00698	-0.04137	-0.0010668	-0.0000289	0.0000005
171 Comb.		1	1	1	1	1	1
172	1	0.00006	0.00023	-0.04189	-0.0006696	-0.0000289	-0.0000037
	2	-0.00001	0.00214	0.01097	0.0002077	0.0000090	0.0000020
	3	0.00002	0.00135	-0.01075	-0.0001528	-0.0000066	-0.0000004
Nó máx		0.00006	0.00214	-0.04189	-0.0006696	-0.0000289	-0.0000037
172 Comb.		1	2	1	1	1	1
173	1	0.00141	-0.00750	-0.04289	-0.0011064	-0.0001179	0.0000023
	2	-0.00056	0.00543	0.01006	0.0002561	0.0000513	-0.0000012
	3	0.00025	0.00012	-0.01170	-0.0003038	-0.0000183	0.0000002
Nó máx		0.00141	-0.00750	-0.04289	-0.0011064	-0.0001179	0.0000023
173 Comb.		1	1	1	1	1	1
174	1	0.00023	-0.00003	-0.04342	-0.0006945	-0.0001180	-0.0000008
	2	-0.00004	0.00353	0.01020	0.0002047	0.0000513	-0.0000031
	3	0.00007	0.00207	-0.01183	-0.0001648	-0.0000183	-0.0000021
Nó máx		0.00023	0.00353	-0.04342	-0.0006945	-0.0001180	-0.0000031
174 Comb.		1	2	1	1	1	2

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
175	1	0.12750	0.03769	-1.46000	-0.0011645	-0.0127286	0.0003876
	2	-0.05429	-0.01043	0.48143	0.0003820	0.0054247	-0.0001598
	3	0.02041	0.00935	-0.31634	-0.0002535	-0.0020349	0.0000651
Nó máx		0.12750	0.03769	-1.46000	-0.0011645	-0.0127286	0.0003876
175	Comb.	1	1	1	1	1	1
176	1	0.00021	0.04910	-1.46019	-0.0011709	-0.0127286	0.0000202
	2	-0.00005	-0.01422	0.48151	0.0003992	0.0054247	-0.0000062
	3	0.00006	0.01180	-0.31637	-0.0002460	-0.0020349	0.0000046
Nó máx		0.00021	0.04910	-1.46019	-0.0011709	-0.0127286	0.0000202
176	Comb.	1	1	1	1	1	1
177	1	0.00033	0.00328	-2.73436	-0.0018990	0.0022947	0.0000500
	2	-0.00007	-0.00079	0.64314	0.0012418	-0.0006356	-0.0000158
	3	0.00009	0.00088	-0.74474	-0.0000488	0.0005685	0.0000112
Nó máx		0.00033	0.00328	-2.73436	-0.0018990	0.0022947	0.0000500
177	Comb.	1	1	1	1	1	1
178	1	0.00000	0.00000	0.00000	-0.0005346	-0.0138011	0.0000050
	2	0.00000	0.00000	0.00000	-0.0002014	0.0053260	-0.0000026
	3	0.00000	0.00000	0.00000	-0.0003383	-0.0025337	0.0000005
Nó máx		0.00000	0.00000	0.00000	-0.0005346	-0.0138011	0.0000050
178	Comb.	0	0	0	1	1	1
179	1	0.00381	0.00890	-2.55643	-0.0035264	0.0001866	0.0000031
	2	-0.00114	-0.00248	0.55161	0.0016436	-0.0000322	0.0000000
	3	0.00090	0.00220	-0.72554	-0.0004808	0.0000577	0.0000013
Nó máx		0.00381	0.00890	-2.55643	-0.0035264	0.0001866	0.0000031
179	Comb.	1	1	1	1	1	1
180	1	0.00547	0.04658	-2.34998	-0.0034960	0.0001713	-0.0000069
	2	-0.00115	-0.02010	0.45685	0.0016273	-0.0000238	0.0000068
	3	0.00157	0.00730	-0.69653	-0.0004780	0.0000564	0.0000011
Nó máx		0.00547	0.04658	-2.34998	-0.0034960	0.0001713	-0.0000069
180	Comb.	1	1	1	1	1	1
181	1	0.00814	0.01669	-2.39267	-0.0022942	-0.0009114	0.0000410
	2	-0.00235	-0.00481	0.49939	0.0013409	0.0002105	-0.0000073
	3	0.00196	0.00402	-0.68901	-0.0001528	-0.0002505	0.0000126
Nó máx		0.00814	0.01669	-2.39267	-0.0022942	-0.0009114	0.0000410
181	Comb.	1	1	1	1	1	1
182	1	0.00150	0.03955	-2.28547	-0.0022553	-0.0009242	0.0000637
	2	-0.00038	-0.01887	0.42847	0.0013198	0.0002200	-0.0000058
	3	0.00040	0.00514	-0.68674	-0.0001493	-0.0002502	0.0000227
Nó máx		0.00150	0.03955	-2.28547	-0.0022553	-0.0009242	0.0000637
182	Comb.	1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
	1	0.01219	0.02431	-1.88919	-0.0022015	-0.0015217	0.0000787
	2	-0.00349	-0.00704	0.38434	0.0013006	0.0003488	-0.0000153
	3	0.00295	0.00584	-0.54990	-0.0001385	-0.0004198	0.0000233
Nó máx		0.01219	0.02431	-1.88919	-0.0022015	-0.0015217	0.0000787
183 Comb.		1	1	1	1	1	1
184	1	0.00283	0.04449	-1.80284	-0.0021598	-0.0015282	0.0001425
	2	-0.00078	-0.02034	0.31926	0.0012789	0.0003572	-0.0000211
	3	0.00070	0.00630	-0.55275	-0.0001341	-0.0004175	0.0000461
Nó máx		0.00283	0.04449	-1.80284	-0.0021598	-0.0015282	0.0001425
184 Comb.		1	1	1	1	1	1
185	1	0.01625	0.03268	-1.04945	-0.0030623	-0.0014241	0.0000790
	2	-0.00467	-0.00945	0.20345	0.0014964	0.0003183	-0.0000137
	3	0.00393	0.00786	-0.31139	-0.0003769	-0.0003977	0.0000244
Nó máx		0.01625	0.03268	-1.04945	-0.0030623	-0.0014241	0.0000790
185 Comb.		1	1	1	1	1	1
186	1	0.00953	0.06140	-0.91096	-0.0030178	-0.0014246	0.0001816
	2	-0.00250	-0.02476	0.12630	0.0014742	0.0003256	-0.0000269
	3	0.00244	0.01065	-0.29993	-0.0003717	-0.0003936	0.0000588
Nó máx		0.00953	0.06140	-0.91096	-0.0030178	-0.0014246	0.0001816
186 Comb.		1	1	1	1	1	1
187	1	0.23463	0.01894	-0.14777	-0.0053699	-0.0204817	0.0003901
	2	-0.09736	-0.00440	0.04572	0.0017108	0.0088408	-0.0001540
	3	0.03906	0.00519	-0.03379	-0.0011988	-0.0032084	0.0000696
Nó máx		0.23463	0.01894	-0.14777	-0.0053699	-0.0204817	0.0003901
187 Comb.		1	1	1	1	1	1
188	1	0.03173	0.06875	-0.27349	0.0009239	-0.0053775	0.0002091
	2	-0.00951	-0.02055	0.12315	-0.0009136	0.0025317	-0.0000826
	3	0.00744	0.01615	-0.03984	-0.0001585	-0.0007183	0.0000373
Nó máx		0.03173	0.06875	-0.27349	0.0009239	-0.0053775	0.0002091
188 Comb.		1	1	1	1	1	1
189	1	0.00221	0.04608	-0.46520	0.0009886	-0.0053309	0.0006121
	2	0.00617	-0.00549	0.24116	-0.0009462	0.0025147	-0.0002510
	3	0.00454	0.01570	-0.04910	-0.0001512	-0.0007092	0.0001037
Nó máx		0.00617	0.04608	-0.46520	0.0009886	-0.0053309	0.0006121
189 Comb.		2	1	1	1	1	1
190	1	0.01598	0.03806	-1.48717	-0.0073349	0.0034168	-0.0000878
	2	-0.00453	-0.01105	0.52532	0.0029657	-0.0012545	0.0000388
	3	0.00390	0.00913	-0.30165	-0.0012670	0.0006650	-0.0000132
Nó máx		0.01598	0.03806	-1.48717	-0.0073349	0.0034168	-0.0000878
190 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
191	1	0.03632	0.12356	-0.97936	-0.0073162	0.0033572	-0.0003634
	2	-0.01148	-0.04552	0.32349	0.0029515	-0.0012288	0.0001428
	3	0.00816	0.02395	-0.21188	-0.0012677	0.0006557	-0.0000652
Nó máx		0.03632	0.12356	-0.97936	-0.0073162	0.0033572	-0.0003634
191 Comb.		1	1	1	1	1	1
192	1	0.01370	0.03436	-3.03525	-0.0040228	0.0018028	-0.0001065
	2	-0.00386	-0.01006	1.08052	0.0021145	-0.0008207	0.0000444
	3	0.00335	0.00819	-0.61073	-0.0004074	0.0002574	-0.0000176
Nó máx		0.01370	0.03436	-3.03525	-0.0040228	0.0018028	-0.0001065
192 Comb.		1	1	1	1	1	1
193	1	0.01839	0.08359	-2.75952	-0.0039997	0.0017539	-0.0003142
	2	-0.00681	-0.03512	0.93883	0.0020988	-0.0007989	0.0001244
	3	0.00355	0.01366	-0.58089	-0.0004072	0.0002501	-0.0000558
Nó máx		0.01839	0.08359	-2.75952	-0.0039997	0.0017539	-0.0003142
193 Comb.		1	1	1	1	1	1
194	1	0.01205	0.02990	-4.06610	-0.0015632	-0.0000248	-0.0000627
	2	-0.00343	-0.00879	1.45629	0.0014421	-0.0002539	0.0000282
	3	0.00293	0.00711	-0.81297	0.0002071	-0.0001597	-0.0000092
Nó máx		0.01205	0.02990	-4.06610	-0.0015632	-0.0002539	-0.0000627
194 Comb.		1	1	1	1	2	1
195	1	0.00299	0.05016	-3.97863	-0.0015344	-0.0000607	-0.0001875
	2	-0.00243	-0.02569	1.36777	0.0014242	-0.0002367	0.0000782
	3	-0.00020	0.00548	-0.82917	0.0002085	-0.0001644	-0.0000310
Nó máx		0.00299	0.05016	-3.97863	-0.0015344	-0.0002367	-0.0001875
195 Comb.		1	1	1	1	2	1
196	1	0.01043	0.02402	-4.46153	0.0002103	-0.0018020	0.0000016
	2	-0.00303	-0.00706	1.60523	0.0009034	0.0003519	0.0000040
	3	0.00250	0.00571	-0.88772	0.0006186	-0.0005332	0.0000031
Nó máx		0.01043	0.02402	-4.46153	0.0009034	-0.0018020	0.0000040
196 Comb.		1	1	1	2	1	2
197	1	-0.01029	0.02198	-4.52144	0.0002454	-0.0018236	-0.0000314
	2	0.00171	-0.01697	1.56315	0.0008832	0.0003638	0.0000202
	3	-0.00322	-0.00096	-0.93713	0.0006211	-0.0005350	-0.0000010
Nó máx		-0.01029	0.02198	-4.52144	0.0008832	-0.0018236	-0.0000314
197 Comb.		1	1	1	2	1	1
198	1	0.00867	0.01708	-4.18343	0.0014059	-0.0034107	0.0000752
	2	-0.00261	-0.00501	1.50875	0.0004732	0.0009459	-0.0000237
	3	0.00202	0.00407	-0.83028	0.0008564	-0.0008443	0.0000169
Nó máx		0.00867	0.01708	-4.18343	0.0014059	-0.0034107	0.0000752
198 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
199	1	-0.02144	-0.00123	-4.35311	0.0014471	-0.0034182	0.0001319
	2	0.00554	-0.00900	1.50655	0.0004507	0.0009525	-0.0000411
	3	-0.00555	-0.00581	-0.90130	0.0008602	-0.0008435	0.0000300
Nó máx		-0.02144	-0.00900	-4.35311	0.0014471	-0.0034182	0.0001319
199 Comb.		1	2	1	1	1	1
200	1	0.00665	0.00947	-3.27083	0.0020563	-0.0046926	0.0001447
	2	-0.00211	-0.00275	1.17723	0.0001623	0.0014573	-0.0000500
	3	0.00149	0.00227	-0.65057	0.0009406	-0.0010698	0.0000300
Nó máx		0.00665	0.00947	-3.27083	0.0020563	-0.0046926	0.0001447
200 Comb.		1	1	1	1	1	1
201	1	-0.03009	-0.01896	-3.51053	0.0021028	-0.0046882	0.0002786
	2	0.00883	-0.00223	1.20593	0.0001378	0.0014593	-0.0000967
	3	-0.00716	-0.00910	-0.73216	0.0009453	-0.0010668	0.0000575
Nó máx		-0.03009	-0.01896	-3.51053	0.0021028	-0.0046882	0.0002786
201 Comb.		1	1	1	1	1	1
202	1	0.00443	0.00186	-1.86379	0.0026004	-0.0056479	0.0001928
	2	-0.00153	-0.00048	0.67299	-0.0004434	0.0019961	-0.0000687
	3	0.00092	0.00048	-0.36943	0.0008074	-0.0011450	0.0000388
Nó máx		0.00443	0.00186	-1.86379	0.0026004	-0.0056479	0.0001928
202 Comb.		1	1	1	1	1	1
203	1	-0.03763	-0.03463	-2.15946	0.0026570	-0.0056378	0.0003806
	2	0.01330	0.00742	0.75056	-0.0004740	0.0019971	-0.0001360
	3	-0.00763	-0.00986	-0.44522	0.0008126	-0.0011402	0.0000763
Nó máx		-0.03763	-0.03463	-2.15946	0.0026570	-0.0056378	0.0003806
203 Comb.		1	1	1	1	1	1
204	1	0.00410	0.00032	-0.01275	-0.0001571	-0.0032615	-0.0001909
	2	-0.00131	-0.00010	0.00405	0.0000435	0.0010765	0.0000620
	3	0.00091	0.00007	-0.00285	-0.0000390	-0.0007061	-0.0000419
Nó máx		0.00410	0.00032	-0.01275	-0.0001571	-0.0032615	-0.0001909
204 Comb.		1	1	1	1	1	1
205	1	-0.00857	0.00389	-0.04421	-0.0001717	-0.0032505	-0.0003543
	2	0.00290	-0.00113	0.01338	0.0000421	0.0010741	0.0001169
	3	-0.00181	0.00094	-0.01028	-0.0000458	-0.0007030	-0.0000767
Nó máx		-0.00857	0.00389	-0.04421	-0.0001717	-0.0032505	-0.0003543
205 Comb.		1	1	1	1	1	1
206	1	-0.01639	0.01482	0.18148	-0.0011262	-0.0046527	0.0004901
	2	0.00970	-0.00117	-0.02255	0.0000165	0.0020204	-0.0001748
	3	-0.00102	0.00540	0.06129	-0.0004531	-0.0007217	0.0000984
Nó máx		-0.01639	0.01482	0.18148	-0.0011262	-0.0046527	0.0004901
206 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
207	1	0.00458	0.00038	0.07437	-0.0011656	-0.0046558	0.0002299
	2	-0.00167	-0.00014	-0.00966	0.0000324	0.0020310	-0.0000828
	3	0.00090	0.00007	0.02487	-0.0004599	-0.0007167	0.0000457
Nó máx		0.00458	0.00038	0.07437	-0.0011656	-0.0046558	0.0002299
207 Comb.		1	1	1	1	1	1
208	1	0.00017	0.00434	-0.03131	0.0012488	-0.0085149	0.0000225
	2	-0.00004	-0.00132	0.01849	-0.0005958	0.0033578	-0.0000067
	3	0.00005	0.00101	-0.00198	0.0001622	-0.0015209	0.0000053
Nó máx		0.00017	0.00434	-0.03131	0.0012488	-0.0085149	0.0000225
208 Comb.		1	1	1	1	1	1
211	1	0.00036	-0.00088	-0.59332	-0.0002444	-0.0013120	0.0000020
	2	-0.00010	0.00042	0.50881	0.0000254	0.0030964	-0.0000010
	3	0.00009	-0.00011	0.05592	-0.0000855	0.0012849	0.0000002
Nó máx		0.00036	-0.00088	-0.59332	-0.0002444	0.0030964	0.0000020
211 Comb.		1	1	1	1	2	1
212	1	-0.00509	0.02142	-2.53745	-0.0081602	0.0010489	0.0006191
	2	0.00162	-0.01351	0.53053	0.0065094	-0.0018969	-0.0001615
	3	-0.00114	0.00085	-0.73016	0.0004814	-0.0006864	0.0001593
Nó máx		-0.00509	0.02142	-2.53745	-0.0081602	-0.0018969	0.0006191
212 Comb.		1	1	1	1	2	1
213	1	-0.00003	0.00000	-0.39339	0.0010339	-0.0128274	0.0000240
	2	-0.00001	0.00000	0.08457	-0.0003789	0.0053718	-0.0000069
	3	-0.00002	0.00000	-0.11183	0.0002017	-0.0021066	0.0000058
Nó máx		-0.00003	0.00000	-0.39339	0.0010339	-0.0128274	0.0000240
213 Comb.		1	1	1	1	1	1
214	1	0.00244	0.00806	-2.71047	-0.0032079	0.0007440	0.0000617
	2	-0.00071	-0.00223	0.62287	0.0015168	-0.0003255	-0.0000187
	3	0.00059	0.00200	-0.74687	-0.0004247	0.0001140	0.0000143
Nó máx		0.00244	0.00806	-2.71047	-0.0032079	0.0007440	0.0000617
214 Comb.		1	1	1	1	1	1
215	1	-0.00087	-0.00007	-0.38747	0.0013449	-0.0126840	0.0000262
	2	0.00023	0.00002	0.08418	-0.0004849	0.0053567	-0.0000077
	3	-0.00022	-0.00002	-0.10963	0.0002670	-0.0020566	0.0000062
Nó máx		-0.00087	-0.00007	-0.38747	0.0013449	-0.0126840	0.0000262
215 Comb.		1	1	1	1	1	1
216	1	0.00031	0.00772	-2.82879	-0.0028919	0.0006481	0.0000695
	2	-0.00007	-0.00213	0.67415	0.0014656	-0.0003045	-0.0000208
	3	0.00009	0.00191	-0.76528	-0.0003250	0.0000869	0.0000163
Nó máx		0.00031	0.00772	-2.82879	-0.0028919	0.0006481	0.0000695
216 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
217	1	0.00245	0.01820	-2.54946	-0.0028170	-0.0023820	0.0000383
	2	-0.00070	-0.00521	0.61948	0.0013492	0.0002152	-0.0000108
	3	0.00059	0.00441	-0.68270	-0.0003628	-0.0008520	0.0000094
Nó máx		0.00245	0.01820	-2.54946	-0.0028170	-0.0023820	0.0000383
217 Comb.		1	1	1	1	1	1
218	1	-0.00113	-0.00009	-0.04393	0.0021439	-0.0118245	-0.0000243
	2	0.00034	0.00003	0.01000	-0.0006835	0.0053817	0.0000072
	3	-0.00026	-0.00002	-0.01216	0.0004783	-0.0016887	-0.0000057
Nó máx		-0.00113	-0.00009	-0.04393	0.0021439	-0.0118245	-0.0000243
218 Comb.		1	1	1	1	1	1
219	1	-0.00007	-0.00219	-0.42085	-0.0003761	-0.0027076	-0.0000046
	2	0.00003	0.00129	0.12624	0.0002333	0.0008241	0.0000027
	3	-0.00001	-0.00014	-0.09857	-0.0000171	-0.0006272	-0.0000003
Nó máx		-0.00007	-0.00219	-0.42085	-0.0003761	-0.0027076	-0.0000046
219 Comb.		1	1	1	1	1	1
220	1	-0.00012	-0.00220	-0.46619	0.0001079	-0.0030496	-0.0000011
	2	0.00004	0.00129	0.14232	-0.0001368	0.0009437	0.0000011
	3	-0.00003	-0.00014	-0.10773	-0.0000363	-0.0006972	0.0000002
Nó máx		-0.00012	-0.00220	-0.46619	-0.0001368	-0.0030496	-0.0000011
220 Comb.		1	1	1	2	1	1
221	1	-0.00008	-0.00182	-0.69008	-0.0004886	-0.0014588	-0.0000074
	2	0.00003	0.00103	0.20829	0.0002731	0.0004457	0.0000032
	3	-0.00002	-0.00014	-0.16087	-0.0000399	-0.0003369	-0.0000012
Nó máx		-0.00008	-0.00182	-0.69008	-0.0004886	-0.0014588	-0.0000074
221 Comb.		1	1	1	1	1	1
222	1	-0.00012	-0.00181	-0.77488	-0.0000114	-0.0017380	0.0000014
	2	0.00004	0.00103	0.23802	-0.0000966	0.0005408	0.0000005
	3	-0.00003	-0.00014	-0.17820	-0.0000616	-0.0003956	0.0000009
Nó máx		-0.00012	-0.00181	-0.77488	-0.0000966	-0.0017380	0.0000014
222 Comb.		1	1	1	2	1	1
223	1	-0.00007	-0.00143	-0.77414	-0.0005724	0.0001565	-0.0000073
	2	0.00002	0.00079	0.23421	0.0002998	-0.0000439	0.0000032
	3	-0.00001	-0.00012	-0.18014	-0.0000586	0.0000384	-0.0000011
Nó máx		-0.00007	-0.00143	-0.77414	-0.0005724	0.0001565	-0.0000073
223 Comb.		1	1	1	1	1	1
224	1	-0.00010	-0.00143	-0.88803	-0.0000983	-0.0000195	0.0000013
	2	0.00003	0.00079	0.27361	-0.0000668	0.0000122	0.0000005
	3	-0.00002	-0.00012	-0.20373	-0.0000797	-0.0000009	0.0000008
Nó máx		-0.00010	-0.00143	-0.88803	-0.0000983	-0.0000195	0.0000013
224 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
225	1	-0.00004	-0.00105	-0.65174	-0.0004757	0.0017463	-0.0000090
	2	0.00002	0.00055	0.19757	0.0001714	-0.0005250	0.0000036
	3	-0.00001	-0.00011	-0.15143	-0.0000945	0.0004083	-0.0000015
Nó máx		-0.00004	-0.00105	-0.65174	-0.0004757	0.0017463	-0.0000090
225 Comb.		1	1	1	1	1	1
226	1	-0.00007	-0.00105	-0.77933	-0.0002839	0.0017128	0.0000032
	2	0.00002	0.00055	0.24092	0.0000932	-0.0005212	-0.0000002
	3	-0.00001	-0.00011	-0.17832	-0.0000618	0.0003968	0.0000012
Nó máx		-0.00007	-0.00105	-0.77933	-0.0002839	0.0017128	0.0000032
226 Comb.		1	1	1	1	1	1
227	1	-0.00002	-0.00064	-0.35026	-0.0008840	0.0029289	-0.0000107
	2	0.00001	0.00030	0.10663	0.0005938	-0.0008883	0.0000042
	3	0.00000	-0.00009	-0.08111	-0.0000135	0.0006803	-0.0000020
Nó máx		-0.00002	-0.00064	-0.35026	-0.0008840	0.0029289	-0.0000107
227 Comb.		1	1	1	1	1	1
228	1	-0.00003	-0.00063	-0.47124	0.0001673	0.0030788	0.0000037
	2	0.00001	0.00030	0.14652	-0.0003584	-0.0009515	-0.0000004
	3	-0.00001	-0.00008	-0.10733	-0.0001424	0.0007047	0.0000013
Nó máx		-0.00003	-0.00063	-0.47124	-0.0003584	0.0030788	0.0000037
228 Comb.		1	1	1	2	1	1
229	1	0.00036	-0.00275	-1.09466	-0.0000944	0.0075976	0.0000021
	2	-0.00011	0.00184	0.35026	0.0000777	-0.0023251	-0.0000011
	3	0.00008	-0.00004	-0.24349	0.0000070	0.0017524	0.0000002
Nó máx		0.00036	-0.00275	-1.09466	-0.0000944	0.0075976	0.0000021
229 Comb.		1	1	1	1	1	1
230	1	0.00033	-0.00275	-1.09529	0.0000521	0.0076021	0.0000002
	2	-0.00009	0.00185	0.35098	-0.0000301	-0.0023304	-0.0000005
	3	0.00008	-0.00004	-0.24332	0.0000037	0.0017511	-0.0000002
Nó máx		0.00033	-0.00275	-1.09529	0.0000521	0.0076021	-0.0000005
230 Comb.		1	1	1	1	1	2
231	1	-0.00002	-0.00277	-1.05608	0.0002196	0.0076253	0.0000118
	2	0.00001	0.00185	0.32467	-0.0001598	-0.0023577	-0.0000023
	3	0.00000	-0.00005	-0.24270	-0.0000039	0.0017445	0.0000035
Nó máx		-0.00002	-0.00277	-1.05608	0.0002196	0.0076253	0.0000118
231 Comb.		1	1	1	1	1	1
232	1	0.00034	-0.00292	-1.94218	-0.0001108	0.0057205	0.0000011
	2	-0.00011	0.00204	0.60977	0.0000976	-0.0017512	-0.0000008
	3	0.00008	0.00000	-0.43888	0.0000119	0.0013191	0.0000000
Nó máx		0.00034	-0.00292	-1.94218	-0.0001108	0.0057205	0.0000011
232 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
233	1	0.00031	-0.00292	-1.94331	0.0000351	0.0057240	0.0000009
	2	-0.00008	0.00204	0.61108	-0.0000103	-0.0017552	-0.0000007
	3	0.00008	0.00000	-0.43857	0.0000084	0.0013181	-0.0000001
Nó máx		0.00031	-0.00292	-1.94331	0.0000351	0.0057240	0.0000009
233 Comb.		1	1	1	1	1	1
234	1	-0.00002	-0.00292	-1.90696	0.0001997	0.0057418	0.0000055
	2	0.00001	0.00204	0.58784	-0.0001399	-0.0017763	-0.0000008
	3	0.00000	0.00001	-0.43732	-0.0000004	0.0013130	0.0000018
Nó máx		-0.00002	-0.00292	-1.90696	0.0001997	0.0057418	0.0000055
234 Comb.		1	1	1	1	1	1
235	1	0.00032	-0.00307	-2.50014	-0.0001221	0.0030589	0.0000009
	2	-0.00010	0.00223	0.78060	0.0001109	-0.0009365	-0.0000007
	3	0.00007	0.00005	-0.56752	0.0000152	0.0007053	-0.0000001
Nó máx		0.00032	-0.00307	-2.50014	-0.0001221	0.0030589	0.0000009
235 Comb.		1	1	1	1	1	1
236	1	0.00029	-0.00307	-2.50161	0.0000239	0.0030608	0.0000011
	2	-0.00008	0.00223	0.78231	0.0000031	-0.0009388	-0.0000008
	3	0.00007	0.00005	-0.56712	0.0000116	0.0007047	0.0000000
Nó máx		0.00029	-0.00307	-2.50161	0.0000239	0.0030608	0.0000011
236 Comb.		1	1	1	1	1	1
237	1	-0.00005	-0.00307	-2.46700	0.0001883	0.0030707	0.0000043
	2	0.00002	0.00223	0.76114	-0.0001266	-0.0009506	-0.0000003
	3	-0.00001	0.00005	-0.56537	0.0000028	0.0007019	0.0000016
Nó máx		-0.00005	-0.00307	-2.46700	0.0001883	0.0030707	0.0000043
237 Comb.		1	1	1	1	1	1
238	1	0.00030	-0.00320	-2.69473	-0.0001263	0.0000051	0.0000002
	2	-0.00009	0.00241	0.84020	0.0001160	-0.0000016	-0.0000005
	3	0.00007	0.00011	-0.61237	0.0000164	0.0000012	-0.0000002
Nó máx		0.00030	-0.00320	-2.69473	-0.0001263	0.0000051	-0.0000005
238 Comb.		1	1	1	1	1	2
239	1	0.00027	-0.00320	-2.69633	0.0000197	0.0000052	0.0000016
	2	-0.00007	0.00241	0.84206	0.0000081	-0.0000017	-0.0000010
	3	0.00007	0.00011	-0.61193	0.0000129	0.0000011	0.0000001
Nó máx		0.00027	-0.00320	-2.69633	0.0000197	0.0000052	0.0000016
239 Comb.		1	1	1	1	1	1
240	1	-0.00009	-0.00319	-2.66237	0.0001841	0.0000057	0.0000003
	2	0.00003	0.00241	0.82167	-0.0001215	-0.0000024	0.0000009
	3	-0.00002	0.00011	-0.60999	0.0000041	0.0000009	0.0000007
Nó máx		-0.00009	-0.00319	-2.66237	0.0001841	0.0000057	0.0000009
240 Comb.		1	1	1	1	1	2

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
241	1	0.00028	-0.00331	-2.50145	-0.0001227	-0.0030487	-0.0000004
	2	-0.00009	0.00260	0.78104	0.0001119	0.0009334	-0.0000004
	3	0.00006	0.00017	-0.56780	0.0000155	-0.0007029	-0.0000004
Nó máx		0.00028	-0.00331	-2.50145	-0.0001227	-0.0030487	-0.0000004
241 Comb.		1	1	1	1	1	2
242	1	0.00025	-0.00331	-2.50294	0.0000233	-0.0030505	0.0000022
	2	-0.00006	0.00260	0.78277	0.0000040	0.0009355	-0.0000011
	3	0.00007	0.00017	-0.56739	0.0000119	-0.0007024	0.0000002
Nó máx		0.00025	-0.00331	-2.50294	0.0000233	-0.0030505	0.0000022
242 Comb.		1	1	1	1	1	1
243	1	-0.00013	-0.00331	-2.46841	0.0001877	-0.0030597	-0.0000034
	2	0.00004	0.00260	0.76173	-0.0001256	0.0009461	0.0000021
	3	-0.00003	0.00017	-0.56559	0.0000032	-0.0006999	-0.0000002
Nó máx		-0.00013	-0.00331	-2.46841	0.0001877	-0.0030597	-0.0000034
243 Comb.		1	1	1	1	1	1
244	1	0.00026	-0.00342	-1.94479	-0.0001116	-0.0057104	-0.0000004
	2	-0.00008	0.00278	0.61063	0.0000989	0.0017480	-0.0000004
	3	0.00006	0.00023	-0.43944	0.0000124	-0.0013168	-0.0000004
Nó máx		0.00026	-0.00342	-1.94479	-0.0001116	-0.0057104	-0.0000004
244 Comb.		1	1	1	1	1	1
245	1	0.00023	-0.00342	-1.94595	0.0000345	-0.0057138	0.0000022
	2	-0.00006	0.00278	0.61198	-0.0000091	0.0017521	-0.0000012
	3	0.00006	0.00023	-0.43912	0.0000088	-0.0013158	0.0000002
Nó máx		0.00023	-0.00342	-1.94595	0.0000345	-0.0057138	0.0000022
245 Comb.		1	1	1	1	1	1
246	1	-0.00014	-0.00341	-1.90968	0.0001989	-0.0057317	-0.0000039
	2	0.00005	0.00278	0.58892	-0.0001385	0.0017729	0.0000023
	3	-0.00003	0.00023	-0.43780	0.0000001	-0.0013109	-0.0000003
Nó máx		-0.00014	-0.00341	-1.90968	0.0001989	-0.0057317	-0.0000039
246 Comb.		1	1	1	1	1	1
247	1	0.00025	-0.00351	-1.09864	-0.0000946	-0.0075874	-0.0000008
	2	-0.00008	0.00296	0.35158	0.0000787	0.0023219	-0.0000003
	3	0.00006	0.00030	-0.24434	0.0000075	-0.0017500	-0.0000005
Nó máx		0.00025	-0.00351	-1.09864	-0.0000946	-0.0075874	-0.0000008
247 Comb.		1	1	1	1	1	1
248	1	0.00022	-0.00351	-1.09927	0.0000522	-0.0075921	0.0000026
	2	-0.00005	0.00296	0.35232	-0.0000293	0.0023274	-0.0000013
	3	0.00006	0.00030	-0.24417	0.0000042	-0.0017487	0.0000003
Nó máx		0.00022	-0.00351	-1.09927	0.0000522	-0.0075921	0.0000026
248 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
249	1	-0.00013	-0.00352	-1.05999	0.0002200	-0.0076163	-0.0000072
	2	0.00004	0.00297	0.32610	-0.0001590	0.0023556	0.0000031
	3	-0.00003	0.00030	-0.24347	-0.0000032	-0.0017420	-0.0000011
Nó máx		-0.00013	-0.00352	-1.05999	0.0002200	-0.0076163	-0.0000072
249 Comb.		1	1	1	1	1	1
250	1	0.00023	-0.00404	-1.09950	-0.0001092	0.0075940	0.0000020
	2	-0.00007	0.00370	0.35177	0.0000963	-0.0023231	-0.0000011
	3	0.00005	0.00052	-0.24458	0.0000118	0.0017520	0.0000002
Nó máx		0.00023	-0.00404	-1.09950	-0.0001092	0.0075940	0.0000020
250 Comb.		1	1	1	1	1	1
251	1	0.00020	-0.00404	-1.10057	0.0000377	0.0076020	0.0000003
	2	-0.00005	0.00370	0.35304	-0.0000119	-0.0023326	-0.0000006
	3	0.00006	0.00052	-0.24428	0.0000085	0.0017497	-0.0000003
Nó máx		0.00020	-0.00404	-1.10057	0.0000377	0.0076020	-0.0000006
251 Comb.		1	1	1	1	1	2
252	1	0.00003	-0.00406	-1.06353	0.0002055	0.0076435	0.0000064
	2	-0.00001	0.00370	0.32952	-0.0001414	-0.0023817	-0.0000002
	3	0.00001	0.00051	-0.24291	0.0000011	0.0017378	0.0000025
Nó máx		0.00003	-0.00406	-1.06353	0.0002055	0.0076435	0.0000064
252 Comb.		1	1	1	1	1	1
253	1	0.00022	-0.00434	-1.94651	-0.0001388	0.0057170	0.0000014
	2	-0.00007	0.00401	0.61103	0.0001318	-0.0017493	-0.0000009
	3	0.00005	0.00058	-0.43992	0.0000206	0.0013187	0.0000000
Nó máx		0.00022	-0.00434	-1.94651	-0.0001388	0.0057170	0.0000014
253 Comb.		1	1	1	1	1	1
254	1	0.00019	-0.00434	-1.94848	0.0000074	0.0057231	0.0000005
	2	-0.00004	0.00401	0.61336	0.0000236	-0.0017566	-0.0000006
	3	0.00005	0.00058	-0.43935	0.0000170	0.0013170	-0.0000001
Nó máx		0.00019	-0.00434	-1.94848	0.0000236	0.0057231	-0.0000006
254 Comb.		1	1	1	2	1	2
255	1	0.00005	-0.00433	-1.91640	0.0001717	0.0057547	0.0000033
	2	-0.00001	0.00401	0.59535	-0.0001057	-0.0017941	0.0000002
	3	0.00001	0.00058	-0.43678	0.0000083	0.0013079	0.0000015
Nó máx		0.00005	-0.00433	-1.91640	0.0001717	0.0057547	0.0000033
255 Comb.		1	1	1	1	1	1
256	1	0.00020	-0.00456	-2.50403	-0.0001589	0.0030554	0.0000010
	2	-0.00006	0.00426	0.78163	0.0001556	-0.0009347	-0.0000007
	3	0.00005	0.00064	-0.56851	0.0000264	0.0007049	0.0000000
Nó máx		0.00020	-0.00456	-2.50403	-0.0001589	0.0030554	0.0000010
256 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
257	1	0.00018	-0.00456	-2.50660	-0.0000126	0.0030588	0.0000003
	2	-0.00004	0.00426	0.78468	0.0000474	-0.0009387	-0.0000004
	3	0.00005	0.00064	-0.56777	0.0000228	0.0007039	-0.0000001
Nó máx		0.00018	-0.00456	-2.50660	0.0000474	0.0030588	-0.0000004
257 Comb.		1	1	1	2	1	2
258	1	0.00003	-0.00456	-2.47762	0.0001516	0.0030762	0.0000035
	2	-0.00001	0.00426	0.77035	-0.0000819	-0.0009595	0.0000000
	3	0.00001	0.00064	-0.56431	0.0000141	0.0006988	0.0000014
Nó máx		0.00003	-0.00456	-2.47762	0.0001516	0.0030762	0.0000035
258 Comb.		1	1	1	1	1	1
259	1	0.00018	-0.00470	-2.69820	-0.0001663	0.0000017	0.0000001
	2	-0.00005	0.00447	0.84100	0.0001646	0.0000002	-0.0000002
	3	0.00004	0.00070	-0.61332	0.0000286	0.0000008	-0.0000001
Nó máx		0.00018	-0.00470	-2.69820	-0.0001663	0.0000017	-0.0000002
259 Comb.		1	1	1	1	1	2
260	1	0.00018	-0.00470	-2.70099	-0.0000200	0.0000018	0.0000003
	2	-0.00004	0.00447	0.84432	0.0000564	0.0000000	-0.0000003
	3	0.00005	0.00070	-0.61252	0.0000250	0.0000007	-0.0000001
Nó máx		0.00018	-0.00470	-2.70099	0.0000564	0.0000018	-0.0000003
260 Comb.		1	1	1	2	1	2
261	1	0.00000	-0.00470	-2.67315	0.0001442	0.0000026	0.0000010
	2	0.00000	0.00446	0.83137	-0.0000729	-0.0000012	0.0000006
	3	0.00000	0.00070	-0.60870	0.0000163	0.0000003	0.0000007
Nó máx		0.00000	-0.00470	-2.67315	0.0001442	0.0000026	0.0000010
261 Comb.		1	1	1	1	1	1
262	1	0.00015	-0.00472	-2.50449	-0.0001599	-0.0030520	-0.0000010
	2	-0.00004	0.00460	0.78162	0.0001574	0.0009351	0.0000003
	3	0.00004	0.00077	-0.56871	0.0000270	-0.0007033	-0.0000002
Nó máx		0.00015	-0.00472	-2.50449	-0.0001599	-0.0030520	-0.0000010
262 Comb.		1	1	1	1	1	1
263	1	0.00017	-0.00472	-2.50709	-0.0000136	-0.0030552	0.0000001
	2	-0.00004	0.00460	0.78472	0.0000491	0.0009387	0.0000000
	3	0.00004	0.00077	-0.56795	0.0000234	-0.0007024	0.0000000
Nó máx		0.00017	-0.00472	-2.50709	0.0000491	-0.0030552	0.0000001
263 Comb.		1	1	1	2	1	1
264	1	-0.00003	-0.00472	-2.47826	0.0001505	-0.0030713	-0.0000010
	2	0.00001	0.00460	0.77065	-0.0000801	0.0009574	0.0000009
	3	0.00000	0.00077	-0.56439	0.0000147	-0.0006981	0.0000001
Nó máx		-0.00003	-0.00472	-2.47826	0.0001505	-0.0030713	-0.0000010
264 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
265	1	0.00012	-0.00457	-1.94743	-0.0001405	-0.0057136	-0.0000020
	2	-0.00002	0.00463	0.61101	0.0001348	0.0017497	0.0000009
	3	0.00004	0.00085	-0.44031	0.0000217	-0.0013171	-0.0000003
Nó máx		0.00012	0.00463	-1.94743	-0.0001405	-0.0057136	-0.0000020
265 Comb.		1	2	1	1	1	1
266	1	0.00017	-0.00457	-1.94945	0.0000059	-0.0057196	-0.0000009
	2	-0.00005	0.00463	0.61342	0.0000265	0.0017567	0.0000005
	3	0.00004	0.00085	-0.43971	0.0000180	-0.0013154	0.0000000
Nó máx		0.00017	0.00463	-1.94945	0.0000265	-0.0057196	-0.0000009
266 Comb.		1	2	1	2	1	1
267	1	-0.00003	-0.00457	-1.91759	0.0001700	-0.0057508	0.0000004
	2	0.00001	0.00463	0.59585	-0.0001027	0.0017930	0.0000000
	3	-0.00001	0.00085	-0.43697	0.0000094	-0.0013069	0.0000002
Nó máx		-0.00003	0.00463	-1.91759	0.0001700	-0.0057508	0.0000004
267 Comb.		1	2	1	1	1	1
268	1	0.00009	-0.00423	-1.10090	-0.0001108	-0.0075905	-0.0000035
	2	-0.00001	0.00454	0.35174	0.0000998	0.0023235	0.0000017
	3	0.00003	0.00094	-0.24518	0.0000133	-0.0017504	-0.0000004
Nó máx		0.00009	0.00454	-1.10090	-0.0001108	-0.0075905	-0.0000035
268 Comb.		1	2	1	1	1	1
269	1	0.00018	-0.00423	-1.10202	0.0000364	-0.0075987	-0.0000019
	2	-0.00006	0.00454	0.35311	-0.0000086	0.0023330	0.0000012
	3	0.00004	0.00094	-0.24483	0.0000099	-0.0017481	-0.0000001
Nó máx		0.00018	0.00454	-1.10202	0.0000364	-0.0075987	-0.0000019
269 Comb.		1	2	1	1	1	1
270	1	0.00000	-0.00424	-1.06515	0.0002041	-0.0076406	-0.0000006
	2	0.00000	0.00454	0.33007	-0.0001379	0.0023819	-0.0000003
	3	0.00000	0.00093	-0.24325	0.0000026	-0.0017365	-0.0000004
Nó máx		0.00000	0.00454	-1.06515	0.0002041	-0.0076406	-0.0000006
270 Comb.		1	2	1	1	1	1
271	1	0.00000	-0.00266	-1.22850	-0.0003873	0.0085605	-0.0000049
	2	0.00004	0.00264	0.34867	0.0004037	-0.0023051	0.0000035
	3	0.00002	0.00046	-0.29942	0.0000787	0.0021598	0.0000000
Nó máx		0.00004	-0.00266	-1.22850	0.0004037	0.0085605	-0.0000049
271 Comb.		2	1	1	2	1	1
272	1	0.00022	-0.00266	-1.23790	-0.0002401	0.0086339	-0.0000088
	2	-0.00008	0.00264	0.35916	0.0002953	-0.0023838	0.0000045
	3	0.00004	0.00046	-0.29711	0.0000753	0.0021436	-0.0000010
Nó máx		0.00022	-0.00266	-1.23790	0.0002953	0.0086339	-0.0000088
272 Comb.		1	1	1	2	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
273	1	0.00020	-0.00268	-1.24387	-0.0000723	0.0090135	0.0000229
	2	-0.00007	0.00264	0.38321	0.0001659	-0.0027902	-0.0000130
	3	0.00004	0.00045	-0.28539	0.0000680	0.0020602	0.0000018
Nó máx		0.00020	-0.00268	-1.24387	0.0001659	0.0090135	0.0000229
273 Comb.		1	1	1	2	1	1
274	1	-0.00007	-0.00095	-2.18586	-0.0006820	0.0064819	-0.0000084
	2	0.00006	0.00120	0.60706	0.0007009	-0.0017573	0.0000043
	3	0.00001	0.00032	-0.54061	0.0001326	0.0016284	-0.0000009
Nó máx		-0.00007	0.00120	-2.18586	0.0007009	0.0064819	-0.0000084
274 Comb.		1	2	1	2	1	1
275	1	0.00025	-0.00095	-2.20412	-0.0005354	0.0065492	-0.0000114
	2	-0.00009	0.00120	0.62645	0.0005924	-0.0018185	0.0000052
	3	0.00005	0.00032	-0.53668	0.0001289	0.0016200	-0.0000016
Nó máx		0.00025	0.00120	-2.20412	0.0005924	0.0065492	-0.0000114
275 Comb.		1	2	1	2	1	1
276	1	0.00024	-0.00094	-2.25612	-0.0003710	0.0068968	0.0000236
	2	-0.00008	0.00120	0.69654	0.0004628	-0.0021345	-0.0000122
	3	0.00005	0.00032	-0.51677	0.0001202	0.0015766	0.0000025
Nó máx		0.00024	0.00120	-2.25612	0.0004628	0.0068968	0.0000236
276 Comb.		1	2	1	2	1	1
277	1	-0.00016	0.00205	-2.82490	-0.0009414	0.0034846	-0.0000126
	2	0.00007	-0.00037	0.78368	0.0009004	-0.0009861	0.0000050
	3	-0.00002	0.00063	-0.69916	0.0001436	0.0008510	-0.0000022
Nó máx		-0.00016	0.00205	-2.82490	-0.0009414	0.0034846	-0.0000126
277 Comb.		1	1	1	1	1	1
278	1	0.00028	0.00205	-2.85078	-0.0007850	0.0035422	-0.0000161
	2	-0.00009	-0.00037	0.80897	0.0007866	-0.0010189	0.0000061
	3	0.00006	0.00063	-0.69489	0.0001408	0.0008554	-0.0000031
Nó máx		0.00028	0.00205	-2.85078	0.0007866	0.0035422	-0.0000161
278 Comb.		1	1	1	2	1	1
279	1	0.00024	0.00208	-2.93881	-0.0005938	0.0038398	0.0000402
	2	-0.00008	-0.00037	0.90779	0.0006438	-0.0011881	-0.0000146
	3	0.00005	0.00063	-0.67285	0.0001353	0.0008780	0.0000079
Nó máx		0.00024	0.00208	-2.93881	0.0006438	0.0038398	0.0000402
279 Comb.		1	1	1	2	1	1
280	1	-0.00024	0.03353	-1.95235	0.0019330	-0.0062528	-0.0000161
	2	0.00008	-0.00966	0.59928	-0.0004419	0.0016250	0.0000050
	3	-0.00005	0.00808	-0.44923	0.0005340	-0.0016121	-0.0000037
Nó máx		-0.00024	0.03353	-1.95235	0.0019330	-0.0062528	-0.0000161
280 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
281	1	0.00012	0.03351	-1.88422	0.0025457	-0.0067154	-0.0000083
	2	-0.00003	-0.00966	0.58190	-0.0006969	0.0018177	0.0000025
	3	0.00003	0.00808	-0.43148	0.0006355	-0.0016887	-0.0000020
Nó máx		0.00012	0.03351	-1.88422	0.0025457	-0.0067154	-0.0000083
281 Comb.		1	1	1	1	1	1
282	1	0.00014	0.03343	-1.34174	0.0038021	-0.0091058	0.0000019
	2	-0.00004	-0.00963	0.41545	-0.0011686	0.0028136	0.0000012
	3	0.00003	0.00806	-0.30661	0.0008740	-0.0020843	0.0000015
Nó máx		0.00014	0.03343	-1.34174	0.0038021	-0.0091058	0.0000019
282 Comb.		1	1	1	1	1	1
283	1	0.00628	0.02525	-2.14731	-0.0032719	-0.0035800	0.0000748
	2	-0.00184	-0.00728	0.51455	0.0014357	0.0005154	-0.0000222
	3	0.00150	0.00609	-0.57926	-0.0004988	-0.0011675	0.0000177
Nó máx		0.00628	0.02525	-2.14731	-0.0032719	-0.0035800	0.0000748
283 Comb.		1	1	1	1	1	1
284	1	0.00392	0.02525	-2.24562	-0.0030337	-0.0034271	0.0000757
	2	-0.00114	-0.00728	0.55807	0.0013675	0.0005008	-0.0000225
	3	0.00094	0.00609	-0.59402	-0.0004411	-0.0011133	0.0000179
Nó máx		0.00392	0.02525	-2.24562	-0.0030337	-0.0034271	0.0000757
284 Comb.		1	1	1	1	1	1
285	1	0.00241	0.02525	-2.30763	-0.0028036	-0.0033242	0.0000640
	2	-0.00069	-0.00728	0.58629	0.0013004	0.0004911	-0.0000190
	3	0.00058	0.00609	-0.60288	-0.0003860	-0.0010766	0.0000151
Nó máx		0.00241	0.02525	-2.30763	-0.0028036	-0.0033242	0.0000640
285 Comb.		1	1	1	1	1	1
286	1	0.00024	0.02526	-2.41005	-0.0022409	-0.0031281	0.0000549
	2	-0.00005	-0.00728	0.63548	0.0011393	0.0004727	-0.0000159
	3	0.00007	0.00609	-0.61599	-0.0002497	-0.0010069	0.0000132
Nó máx		0.00024	0.02526	-2.41005	-0.0022409	-0.0031281	0.0000549
286 Comb.		1	1	1	1	1	1
287	1	0.00015	0.02533	-2.34984	0.0014835	-0.0067304	0.0000497
	2	-0.00005	-0.00731	0.72681	-0.0002489	0.0020773	-0.0000147
	3	0.00004	0.00610	-0.53745	0.0004629	-0.0015420	0.0000118
Nó máx		0.00015	0.02533	-2.34984	0.0014835	-0.0067304	0.0000497
287 Comb.		1	1	1	1	1	1
288	1	0.00027	0.01738	-2.72716	-0.0024432	-0.0017884	0.0000587
	2	-0.00006	-0.00499	0.67906	0.0013175	0.0001929	-0.0000173
	3	0.00008	0.00420	-0.72062	-0.0002279	-0.0006213	0.0000139
Nó máx		0.00027	0.01738	-2.72716	-0.0024432	-0.0017884	0.0000587
288 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
289	1	0.00018	0.01738	-2.99610	0.0001421	-0.0034479	0.0000470
	2	-0.00006	-0.00499	0.92608	0.0003454	0.0010618	-0.0000140
	3	0.00004	0.00420	-0.68562	0.0002618	-0.0007913	0.0000111
Nó máx		0.00018	0.01738	-2.99610	0.0003454	-0.0034479	0.0000470
289	Comb.	1	1	1	2	1	1
290	1	0.00031	0.00927	-2.83694	-0.0032202	0.0002000	0.0000649
	2	-0.00006	-0.00259	0.67977	0.0015395	-0.0002138	-0.0000194
	3	0.00009	0.00228	-0.76531	-0.0004163	-0.0000438	0.0000152
Nó máx		0.00031	0.00927	-2.83694	-0.0032202	-0.0002138	0.0000649
290	Comb.	1	1	1	1	2	1
291	1	0.00022	0.00928	-3.19919	0.0001047	0.0002402	0.0000519
	2	-0.00007	-0.00260	0.98843	0.0005084	-0.0000765	-0.0000158
	3	0.00005	0.00228	-0.73235	0.0003425	0.0000536	0.0000120
Nó máx		0.00022	0.00928	-3.19919	0.0005084	0.0002402	0.0000519
291	Comb.	1	1	1	2	1	1
292	1	-0.00005	0.03779	-1.92544	0.0041282	0.0063196	0.0000057
	2	0.00003	-0.01091	0.72984	-0.0016750	-0.0026025	-0.0000014
	3	0.00000	0.00910	-0.36127	0.0007096	0.0010637	0.0000015
Nó máx		-0.00005	0.03779	-1.92544	0.0041282	0.0063196	0.0000057
292	Comb.	1	1	1	1	1	1
293	1	-0.00011	0.03778	-1.79324	0.0046359	0.0062864	-0.0000021
	2	0.00003	-0.01090	0.67556	-0.0019239	-0.0025168	0.0000012
	3	-0.00002	0.00910	-0.33892	0.0007717	0.0011006	-0.0000002
Nó máx		-0.00011	0.03778	-1.79324	0.0046359	0.0062864	-0.0000021
293	Comb.	1	1	1	1	1	1
294	1	0.00027	0.03771	-0.95321	0.0056446	0.0061148	0.0000170
	2	-0.00009	-0.01088	0.32056	-0.0023800	-0.0020739	-0.0000072
	3	0.00006	0.00909	-0.20286	0.0009175	0.0012910	0.0000027
Nó máx		0.00027	0.03771	-0.95321	0.0056446	0.0061148	0.0000170
294	Comb.	1	1	1	1	1	1
295	1	0.00002	0.03404	-2.52654	0.0042119	0.0043789	0.0000089
	2	0.00001	-0.00990	0.99421	-0.0019917	-0.0018406	-0.0000023
	3	0.00001	0.00816	-0.45254	0.0005575	0.0007151	0.0000023
Nó máx		0.00002	0.03404	-2.52654	0.0042119	0.0043789	0.0000089
295	Comb.	1	1	1	1	1	1
296	1	-0.00023	0.03404	-2.39475	0.0045484	0.0043472	0.0000084
	2	0.00007	-0.00990	0.93113	-0.0021999	-0.0017714	-0.0000022
	3	-0.00005	0.00816	-0.43554	0.0005731	0.0007429	0.0000022
Nó máx		-0.00023	0.03404	-2.39475	0.0045484	0.0043472	0.0000084
296	Comb.	1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
297	1	0.00025	0.03407	-1.61104	0.0051596	0.0041833	-0.0000296
	2	-0.00008	-0.00991	0.54344	-0.0025623	-0.0014138	0.0000082
	3	0.00006	0.00816	-0.34188	0.0006107	0.0008862	-0.0000073
Nó máx		0.00025	0.03407	-1.61104	0.0051596	0.0041833	-0.0000296
297 Comb.		1	1	1	1	1	1
298	1	0.00008	0.02958	-2.85952	0.0042570	0.0015768	0.0000141
	2	-0.00001	-0.00864	1.14394	-0.0022044	-0.0007297	-0.0000040
	3	0.00003	0.00706	-0.50116	0.0004507	0.0002181	0.0000035
Nó máx		0.00008	0.02958	-2.85952	0.0042570	0.0015768	0.0000141
298 Comb.		1	1	1	1	1	1
299	1	-0.00033	0.02958	-2.72809	0.0044928	0.0015786	0.0000128
	2	0.00010	-0.00864	1.07500	-0.0023818	-0.0006967	-0.0000035
	3	-0.00007	0.00706	-0.48776	0.0004431	0.0002383	0.0000032
Nó máx		-0.00033	0.02958	-2.72809	0.0044928	0.0015786	0.0000128
299 Comb.		1	1	1	1	1	1
300	1	0.00022	0.02958	-1.97840	0.0048653	0.0015882	-0.0000332
	2	-0.00007	-0.00864	0.66693	-0.0026707	-0.0005265	0.0000094
	3	0.00005	0.00706	-0.42009	0.0004260	0.0003425	-0.0000081
Nó máx		0.00022	0.02958	-1.97840	0.0048653	0.0015882	-0.0000332
300 Comb.		1	1	1	1	1	1
301	1	0.00012	0.02404	-2.82290	0.0040957	-0.0016538	0.0000182
	2	-0.00002	-0.00705	1.13922	-0.0022224	0.0005662	-0.0000052
	3	0.00004	0.00573	-0.48889	0.0003738	-0.0003461	0.0000044
Nó máx		0.00012	0.02404	-2.82290	0.0040957	-0.0016538	0.0000182
301 Comb.		1	1	1	1	1	1
302	1	-0.00042	0.02404	-2.69751	0.0042604	-0.0015819	0.0000177
	2	0.00013	-0.00705	1.07031	-0.0023663	0.0005431	-0.0000051
	3	-0.00010	0.00573	-0.47796	0.0003567	-0.0003301	0.0000043
Nó máx		-0.00042	0.02404	-2.69751	0.0042604	-0.0015819	0.0000177
302 Comb.		1	1	1	1	1	1
303	1	0.00016	0.02405	-2.00177	0.0044644	-0.0012106	-0.0000456
	2	-0.00005	-0.00705	0.67308	-0.0025759	0.0004242	0.0000133
	3	0.00004	0.00573	-0.42607	0.0003171	-0.0002476	-0.0000109
Nó máx		0.00016	0.02405	-2.00177	0.0044644	-0.0012106	-0.0000456
303 Comb.		1	1	1	1	1	1
304	1	0.00015	0.01757	-2.38011	0.0035791	-0.0048383	0.0000215
	2	-0.00003	-0.00517	0.96493	-0.0019705	0.0018600	-0.0000063
	3	0.00004	0.00417	-0.40961	0.0003100	-0.0008925	0.0000051
Nó máx		0.00015	0.01757	-2.38011	0.0035791	-0.0048383	0.0000215
304 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
305	1	-0.00050	0.01757	-2.27135	0.0036779	-0.0046686	0.0000217
	2	0.00016	-0.00517	0.90431	-0.0020716	0.0017673	-0.0000064
	3	-0.00011	0.00417	-0.40063	0.0002910	-0.0008773	0.0000052
Nó máx		-0.00050	0.01757	-2.27135	0.0036779	-0.0046686	0.0000217
305 Comb.		1	1	1	1	1	1
306	1	0.00011	0.01757	-1.68253	0.0037257	-0.0037918	-0.0000565
	2	-0.00003	-0.00517	0.56356	-0.0021798	0.0012887	0.0000168
	3	0.00002	0.00417	-0.35940	0.0002469	-0.0007990	-0.0000133
Nó máx		0.00011	0.01757	-1.68253	0.0037257	-0.0037918	-0.0000565
306 Comb.		1	1	1	1	1	1
307	1	0.00017	0.01045	-1.55901	0.0026247	-0.0074689	0.0000237
	2	-0.00004	-0.00310	0.63055	-0.0014176	0.0029427	-0.0000070
	3	0.00005	0.00247	-0.26918	0.0002435	-0.0013356	0.0000056
Nó máx		0.00017	0.01045	-1.55901	0.0026247	-0.0074689	0.0000237
307 Comb.		1	1	1	1	1	1
308	1	-0.00056	0.01046	-1.48028	0.0026412	-0.0071925	0.0000246
	2	0.00017	-0.00310	0.58757	-0.0014565	0.0027792	-0.0000073
	3	-0.00013	0.00247	-0.26215	0.0002273	-0.0013184	0.0000058
Nó máx		-0.00056	0.01046	-1.48028	0.0026412	-0.0071925	0.0000246
308 Comb.		1	1	1	1	1	1
309	1	0.00006	0.01047	-1.07277	0.0024963	-0.0057646	-0.0000634
	2	-0.00002	-0.00311	0.35773	-0.0014194	0.0019344	0.0000191
	3	0.00001	0.00247	-0.23009	0.0001896	-0.0012293	-0.0000148
Nó máx		0.00006	0.01047	-1.07277	0.0024963	-0.0057646	-0.0000634
309 Comb.		1	1	1	1	1	1
310	1	0.00017	0.00315	-0.48415	0.0012488	-0.0086926	0.0000225
	2	-0.00004	-0.00096	0.19841	-0.0005958	0.0035424	-0.0000067
	3	0.00005	0.00073	-0.08207	0.0001622	-0.0014852	0.0000053
Nó máx		0.00017	0.00315	-0.48415	0.0012488	-0.0086926	0.0000225
310 Comb.		1	1	1	1	1	1
311	1	-0.00060	0.00315	-0.44751	0.0012139	-0.0083810	0.0000279
	2	0.00019	-0.00096	0.18060	-0.0006002	0.0033332	-0.0000083
	3	-0.00013	0.00073	-0.07750	0.0001452	-0.0014804	0.0000065
Nó máx		-0.00060	0.00315	-0.44751	0.0012139	-0.0083810	0.0000279
311 Comb.		1	1	1	1	1	1
312	1	0.00001	0.00315	-0.27149	0.0010116	-0.0067712	-0.0000773
	2	0.00000	-0.00096	0.09018	-0.0005326	0.0022523	0.0000236
	3	0.00000	0.00073	-0.05844	0.0001019	-0.0014556	-0.0000178
Nó máx		0.00001	0.00315	-0.27149	0.0010116	-0.0067712	-0.0000773
312 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
313	1	-0.00061	-0.00005	0.04730	0.0005375	-0.0088625	0.0000306
	2	0.00019	0.00002	-0.01721	-0.0002314	0.0034578	-0.0000094
	3	-0.00014	-0.00001	0.00930	0.0000846	-0.0016049	0.0000070
Nó máx		-0.00061	-0.00005	0.04730	0.0005375	-0.0088625	0.0000306
313 Comb.		1	1	1	1	1	1
314	1	0.00822	0.03367	-1.55587	-0.0044709	-0.0046820	0.0000710
	2	-0.00240	-0.00971	0.40694	0.0016594	0.0007353	-0.0000208
	3	0.00196	0.00812	-0.39962	-0.0008597	-0.0014907	0.0000169
Nó máx		0.00822	0.03367	-1.55587	-0.0044709	-0.0046820	0.0000710
314 Comb.		1	1	1	1	1	1
315	1	0.00929	0.03792	-2.21503	-0.0021966	0.0105047	0.0000889
	2	-0.00272	-0.01095	0.83552	0.0009841	-0.0042048	-0.0000264
	3	0.00222	0.00913	-0.41801	-0.0003229	0.0018396	0.0000210
Nó máx		0.00929	0.03792	-2.21503	-0.0021966	0.0105047	0.0000889
315 Comb.		1	1	1	1	1	1
316	1	0.00821	0.03399	-3.31287	0.0000484	0.0073707	0.0000693
	2	-0.00242	-0.00988	1.30080	0.0003896	-0.0031102	-0.0000205
	3	0.00195	0.00815	-0.59504	0.0002494	0.0011966	0.0000164
Nó máx		0.00821	0.03399	-3.31287	0.0003896	0.0073707	0.0000693
316 Comb.		1	1	1	2	1	1
317	1	0.00707	0.02958	-4.01618	0.0012650	0.0032907	0.0000594
	2	-0.00209	-0.00864	1.61878	0.0000507	-0.0015858	-0.0000176
	3	0.00167	0.00706	-0.69673	0.0005497	0.0004180	0.0000141
Nó máx		0.00707	0.02958	-4.01618	0.0012650	0.0032907	0.0000594
317 Comb.		1	1	1	1	1	1
318	1	0.00569	0.02403	-4.22334	0.0017923	-0.0011986	0.0000499
	2	-0.00169	-0.00704	1.74288	-0.0001351	0.0001622	-0.0000147
	3	0.00134	0.00573	-0.70876	0.0006569	-0.0003970	0.0000118
Nó máx		0.00569	0.02403	-4.22334	0.0017923	-0.0011986	0.0000499
318 Comb.		1	1	1	1	1	1
319	1	0.00412	0.01755	-3.88980	0.0018792	-0.0055896	0.0000415
	2	-0.00124	-0.00516	1.64824	-0.0002409	0.0019286	-0.0000122
	3	0.00096	0.00417	-0.62745	0.0006303	-0.0011608	0.0000099
Nó máx		0.00412	0.01755	-3.88980	0.0018792	-0.0055896	0.0000415
319 Comb.		1	1	1	1	1	1
320	1	0.00242	0.01043	-3.04417	0.0016963	-0.0093079	0.0000343
	2	-0.00074	-0.00309	1.34094	-0.0003090	0.0034672	-0.0000100
	3	0.00056	0.00246	-0.46099	0.0005151	-0.0017823	0.0000082
Nó máx		0.00242	0.01043	-3.04417	0.0016963	-0.0093079	0.0000343
320 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
321	1	0.00071	0.00318	-1.70494	0.0013782	-0.0119980	0.0000278
	2	-0.00024	-0.00096	0.77471	-0.0003653	0.0048355	-0.0000081
	3	0.00015	0.00074	-0.24423	0.0003511	-0.0020817	0.0000067
Nó máx		0.00071	0.00318	-1.70494	0.0013782	-0.0119980	0.0000278
321 Comb.		1	1	1	1	1	1
322	1	0.00570	0.03366	-1.68796	-0.0040140	-0.0044756	0.0000841
	2	-0.00165	-0.00971	0.45619	0.0015099	0.0007106	-0.0000249
	3	0.00137	0.00811	-0.42489	-0.0007600	-0.0014205	0.0000199
Nó máx		0.00570	0.03366	-1.68796	-0.0040140	-0.0044756	0.0000841
322 Comb.		1	1	1	1	1	1
323	1	0.00672	0.03791	-2.27635	-0.0017349	0.0097905	0.0000765
	2	-0.00195	-0.01095	0.86276	0.0007647	-0.0039966	-0.0000227
	3	0.00161	0.00913	-0.42716	-0.0002624	0.0016688	0.0000181
Nó máx		0.00672	0.03791	-2.27635	-0.0017349	0.0097905	0.0000765
323 Comb.		1	1	1	1	1	1
324	1	0.00607	0.03399	-3.30596	0.0004278	0.0069454	0.0000663
	2	-0.00178	-0.00988	1.30937	0.0001535	-0.0029728	-0.0000197
	3	0.00145	0.00815	-0.58716	0.0002662	0.0011028	0.0000157
Nó máx		0.00607	0.03399	-3.30596	0.0004278	0.0069454	0.0000663
324 Comb.		1	1	1	1	1	1
325	1	0.00526	0.02958	-3.97183	0.0016332	0.0030632	0.0000562
	2	-0.00156	-0.00864	1.61639	-0.0002163	-0.0014950	-0.0000166
	3	0.00124	0.00706	-0.67992	0.0005437	0.0003781	0.0000133
Nó máx		0.00526	0.02958	-3.97183	0.0016332	0.0030632	0.0000562
325 Comb.		1	1	1	1	1	1
326	1	0.00417	0.02403	-4.16220	0.0021909	-0.0012954	0.0000473
	2	-0.00124	-0.00704	1.73415	-0.0004392	0.0002239	-0.0000140
	3	0.00098	0.00573	-0.68878	0.0006416	-0.0004004	0.0000112
Nó máx		0.00417	0.02403	-4.16220	0.0021909	-0.0012954	0.0000473
326 Comb.		1	1	1	1	1	1
327	1	0.00285	0.01755	-3.82519	0.0023255	-0.0056020	0.0000395
	2	-0.00086	-0.00516	1.63564	-0.0005815	0.0019722	-0.0000117
	3	0.00066	0.00417	-0.60832	0.0006130	-0.0011402	0.0000094
Nó máx		0.00285	0.01755	-3.82519	0.0023255	-0.0056020	0.0000395
327 Comb.		1	1	1	1	1	1
328	1	0.00136	0.01043	-2.98426	0.0021961	-0.0092667	0.0000328
	2	-0.00043	-0.00309	1.32565	-0.0006842	0.0034981	-0.0000097
	3	0.00031	0.00246	-0.44538	0.0004994	-0.0017472	0.0000078
Nó máx		0.00136	0.01043	-2.98426	0.0021961	-0.0092667	0.0000328
328 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
329	1	-0.00018	0.00317	-1.65521	0.0018492	-0.0119318	0.0000281
	2	0.00002	-0.00096	0.75842	-0.0006907	0.0048702	-0.0000083
	3	-0.00006	0.00074	-0.23339	0.0003530	-0.0020340	0.0000067
Nó máx		-0.00018	0.00317	-1.65521	0.0018492	-0.0119318	0.0000281
329 Comb.		1	1	1	1	1	1
330	1	0.00038	-0.00231	-0.10959	-0.0001076	0.0001458	0.0000034
	2	-0.00012	0.00152	0.03967	0.0000554	-0.0000428	-0.0000015
	3	0.00009	-0.00006	-0.02166	-0.0000116	0.0000347	0.0000005
Nó máx		0.00038	-0.00231	-0.10959	-0.0001076	0.0001458	0.0000034
330 Comb.		1	1	1	1	1	1
331	1	0.00034	-0.00290	-0.10968	0.0001017	0.0001461	-0.0000007
	2	-0.00009	0.00168	0.03971	-0.0000524	-0.0000427	-0.0000002
	3	0.00008	-0.00020	-0.02167	0.0000109	0.0000349	-0.0000004
Nó máx		0.00034	-0.00290	-0.10968	0.0001017	0.0001461	-0.0000007
331 Comb.		1	1	1	1	1	1
332	1	0.00003	-0.00273	-1.04872	-0.0002652	0.0075745	-0.0000150
	2	0.00000	0.00184	0.31636	0.0002113	-0.0022977	0.0000055
	3	0.00001	-0.00004	-0.24458	0.0000155	0.0017590	-0.0000029
Nó máx		0.00003	-0.00273	-1.04872	-0.0002652	0.0075745	-0.0000150
332 Comb.		1	1	1	1	1	1
333	1	0.00024	-0.00321	-0.12069	-0.0001128	-0.0000208	0.0000008
	2	-0.00007	0.00309	0.04313	0.0000577	0.0000084	-0.0000007
	3	0.00006	0.00050	-0.02419	-0.0000123	-0.0000036	-0.0000001
Nó máx		0.00024	-0.00321	-0.12069	-0.0001128	-0.0000208	0.0000008
333 Comb.		1	1	1	1	1	1
334	1	0.00021	-0.00387	-0.12075	0.0001091	-0.0000192	0.0000012
	2	-0.00005	0.00327	0.04319	-0.0000540	0.0000082	-0.0000008
	3	0.00006	0.00034	-0.02418	0.0000130	-0.0000030	0.0000000
Nó máx		0.00021	-0.00387	-0.12075	0.0001091	-0.0000192	0.0000012
334 Comb.		1	1	1	1	1	1
335	1	0.00005	-0.00360	-0.12448	-0.0001166	-0.0000754	-0.0000033
	2	0.00001	0.00447	0.04277	0.0000636	0.0000310	0.0000023
	3	0.00003	0.00116	-0.02596	-0.0000104	-0.0000127	0.0000000
Nó máx		0.00005	0.00447	-0.12448	-0.0001166	-0.0000754	-0.0000033
335 Comb.		1	2	1	1	1	1
336	1	0.00020	-0.00429	-0.12459	0.0001097	-0.0000672	-0.0000060
	2	-0.00007	0.00465	0.04302	-0.0000478	0.0000271	0.0000029
	3	0.00004	0.00098	-0.02586	0.0000169	-0.0000116	-0.0000008
Nó máx		0.00020	0.00465	-0.12459	0.0001097	-0.0000672	-0.0000060
336 Comb.		1	2	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
337	1	0.00039	-0.00219	-0.48407	-0.0002062	-0.0028635	0.0000005
	2	-0.00012	0.00129	0.16364	0.0001007	0.0008786	-0.0000006
	3	0.00009	-0.00014	-0.10252	-0.0000254	-0.0006591	-0.0000002
Nó máx		0.00039	-0.00219	-0.48407	-0.0002062	-0.0028635	-0.0000006
337 Comb.		1	1	1	1	1	2
338	1	0.00034	-0.00219	-0.48806	-0.0000598	-0.0028937	0.0000025
	2	-0.00009	0.00129	0.16504	-0.0000070	0.0008892	-0.0000012
	3	0.00009	-0.00014	-0.10333	-0.0000287	-0.0006653	0.0000003
Nó máx		0.00034	-0.00219	-0.48806	-0.0000598	-0.0028937	0.0000025
338 Comb.		1	1	1	1	1	1
339	1	0.00039	-0.00181	-0.77100	-0.0003220	-0.0015861	0.0000009
	2	-0.00012	0.00103	0.25189	0.0001409	0.0004891	-0.0000007
	3	0.00009	-0.00014	-0.16843	-0.0000493	-0.0003637	0.0000000
Nó máx		0.00039	-0.00181	-0.77100	-0.0003220	-0.0015861	0.0000009
339 Comb.		1	1	1	1	1	1
340	1	0.00035	-0.00181	-0.77847	-0.0001762	-0.0016108	0.0000022
	2	-0.00010	0.00103	0.25450	0.0000333	0.0004975	-0.0000011
	3	0.00009	-0.00014	-0.16997	-0.0000528	-0.0003688	0.0000003
Nó máx		0.00035	-0.00181	-0.77847	-0.0001762	-0.0016108	0.0000022
340 Comb.		1	1	1	1	1	1
341	1	0.00040	-0.00143	-0.86820	-0.0004075	0.0000763	0.0000010
	2	-0.00013	0.00079	0.28209	0.0001693	-0.0000184	-0.0000007
	3	0.00009	-0.00012	-0.19059	-0.0000677	0.0000205	0.0000000
Nó máx		0.00040	-0.00143	-0.86820	-0.0004075	0.0000763	0.0000010
341 Comb.		1	1	1	1	1	1
342	1	0.00035	-0.00143	-0.87824	-0.0002619	0.0000607	0.0000023
	2	-0.00010	0.00079	0.28555	0.0000619	-0.0000134	-0.0000011
	3	0.00009	-0.00012	-0.19267	-0.0000712	0.0000171	0.0000003
Nó máx		0.00035	-0.00143	-0.87824	-0.0002619	0.0000607	0.0000023
342 Comb.		1	1	1	1	1	1
343	1	0.00041	-0.00105	-0.73582	-0.0004180	0.0017310	0.0000014
	2	-0.00013	0.00055	0.23068	0.0001505	-0.0005232	-0.0000009
	3	0.00009	-0.00011	-0.16647	-0.0000831	0.0004031	0.0000001
Nó máx		0.00041	-0.00105	-0.73582	-0.0004180	0.0017310	0.0000014
343 Comb.		1	1	1	1	1	1
344	1	0.00036	-0.00105	-0.74678	-0.0003192	0.0017281	0.0000021
	2	-0.00010	0.00055	0.23420	0.0000908	-0.0005229	-0.0000010
	3	0.00009	-0.00011	-0.16890	-0.0000777	0.0004021	0.0000002
Nó máx		0.00036	-0.00105	-0.74678	-0.0003192	0.0017281	0.0000021
344 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
345	1	0.00042	-0.00064	-0.48045	-0.0004838	0.0009812	0.0000019
	2	-0.00013	0.00030	0.18816	0.0002282	0.0008075	-0.0000010
	3	0.00010	-0.00009	-0.08659	-0.0000644	0.0008789	0.0000002
Nó máx		0.00042	-0.00064	-0.48045	-0.0004838	0.0009812	0.0000019
345 Comb.		1	1	1	1	1	1
346	1	0.00036	-0.00064	-0.49156	-0.0002444	0.0006042	0.0000020
	2	-0.00010	0.00030	0.19215	0.0000254	0.0011357	-0.0000010
	3	0.00009	-0.00008	-0.08880	-0.0000855	0.0009173	0.0000002
Nó máx		0.00036	-0.00064	-0.49156	-0.0002444	0.0011357	0.0000020
346 Comb.		1	1	1	1	2	1
347	1	0.00004	-0.00293	-1.89389	-0.0002791	0.0057028	-0.0000083
	2	0.00000	0.00205	0.57277	0.0002316	-0.0017301	0.0000036
	3	0.00001	0.00000	-0.44083	0.0000217	0.0013242	-0.0000013
Nó máx		0.00004	-0.00293	-1.89389	-0.0002791	0.0057028	-0.0000083
347 Comb.		1	1	1	1	1	1
348	1	0.00002	-0.00307	-2.45007	-0.0002908	0.0030491	-0.0000067
	2	0.00000	0.00223	0.74150	0.0002455	-0.0009248	0.0000031
	3	0.00001	0.00005	-0.56998	0.0000251	0.0007081	-0.0000009
Nó máx		0.00002	-0.00307	-2.45007	-0.0002908	0.0030491	-0.0000067
348 Comb.		1	1	1	1	1	1
349	1	-0.00001	-0.00320	-2.64399	-0.0002954	0.0000046	-0.0000025
	2	0.00001	0.00242	0.80028	0.0002510	-0.0000009	0.0000018
	3	0.00000	0.00011	-0.61504	0.0000265	0.0000014	0.0000001
Nó máx		-0.00001	-0.00320	-2.64399	-0.0002954	0.0000046	-0.0000025
349 Comb.		1	1	1	1	1	1
350	1	-0.00004	-0.00332	-2.45123	-0.0002922	-0.0030396	0.0000014
	2	0.00002	0.00260	0.74172	0.0002474	0.0009228	0.0000007
	3	-0.00001	0.00017	-0.57033	0.0000257	-0.0007054	0.0000010
Nó máx		-0.00004	-0.00332	-2.45123	-0.0002922	-0.0030396	0.0000014
350 Comb.		1	1	1	1	1	1
351	1	-0.00005	-0.00342	-1.89628	-0.0002815	-0.0056925	0.0000021
	2	0.00003	0.00278	0.57330	0.0002349	0.0017272	0.0000004
	3	-0.00001	0.00023	-0.44150	0.0000227	-0.0013217	0.0000011
Nó máx		-0.00005	-0.00342	-1.89628	-0.0002815	-0.0056925	0.0000021
351 Comb.		1	1	1	1	1	1
352	1	-0.00003	-0.00349	-1.05246	-0.0002684	-0.0075633	0.0000056
	2	0.00002	0.00296	0.31733	0.0002153	0.0022937	-0.0000003
	3	0.00000	0.00031	-0.24554	0.0000165	-0.0017567	0.0000021
Nó máx		-0.00003	-0.00349	-1.05246	-0.0002684	-0.0075633	0.0000056
352 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
353	1	0.00015	-0.00402	-1.05101	-0.0002838	0.0075526	-0.0000109
	2	-0.00003	0.00369	0.31474	0.0002338	-0.0022741	0.0000047
	3	0.00004	0.00052	-0.24647	0.0000211	0.0017639	-0.0000017
Nó máx		0.00015	-0.00402	-1.05101	-0.0002838	0.0075526	-0.0000109
353 Comb.		1	1	1	1	1	1
354	1	0.00018	-0.00434	-1.89368	-0.0003103	0.0056854	-0.0000065
	2	-0.00004	0.00401	0.56848	0.0002696	-0.0017118	0.0000033
	3	0.00005	0.00058	-0.44327	0.0000313	0.0013278	-0.0000007
Nó máx		0.00018	-0.00434	-1.89368	-0.0003103	0.0056854	-0.0000065
354 Comb.		1	1	1	1	1	1
355	1	0.00017	-0.00456	-2.44807	-0.0003307	0.0030381	-0.0000057
	2	-0.00004	0.00426	0.73536	0.0002939	-0.0009139	0.0000028
	3	0.00005	0.00064	-0.57277	0.0000372	0.0007100	-0.0000007
Nó máx		0.00017	-0.00456	-2.44807	-0.0003307	0.0030381	-0.0000057
355 Comb.		1	1	1	1	1	1
356	1	0.00014	-0.00470	-2.64106	-0.0003385	0.0000009	-0.0000016
	2	-0.00003	0.00447	0.79331	0.0003033	0.0000014	0.0000013
	3	0.00004	0.00070	-0.61794	0.0000396	0.0000012	0.0000001
Nó máx		0.00014	-0.00470	-2.64106	-0.0003385	0.0000014	-0.0000016
356 Comb.		1	1	1	1	2	1
357	1	0.00012	-0.00472	-2.44831	-0.0003325	-0.0030359	0.0000027
	2	-0.00002	0.00460	0.73501	0.0002966	0.0009165	-0.0000004
	3	0.00004	0.00077	-0.57308	0.0000381	-0.0007076	0.0000009
Nó máx		0.00012	-0.00472	-2.44831	-0.0003325	-0.0030359	0.0000027
357 Comb.		1	1	1	1	1	1
358	1	0.00011	-0.00458	-1.89424	-0.0003135	-0.0056824	0.0000044
	2	-0.00002	0.00463	0.56787	0.0002745	0.0017134	-0.0000014
	3	0.00004	0.00085	-0.44386	0.0000329	-0.0013257	0.0000010
Nó máx		0.00011	0.00463	-1.89424	-0.0003135	-0.0056824	0.0000044
358 Comb.		1	2	1	1	1	1
359	1	0.00014	-0.00421	-1.05201	-0.0002879	-0.0075486	0.0000087
	2	-0.00002	0.00454	0.31400	0.0002400	0.0022746	-0.0000030
	3	0.00005	0.00094	-0.24732	0.0000231	-0.0017619	0.0000018
Nó máx		0.00014	0.00454	-1.05201	-0.0002879	-0.0075486	0.0000087
359 Comb.		1	2	1	1	1	1
360	1	0.00032	-0.00264	-1.13669	-0.0005651	0.0081809	0.0000001
	2	-0.00006	0.00263	0.26376	0.0005447	-0.0018987	-0.0000071
	3	0.00010	0.00046	-0.31171	0.0000887	0.0022432	-0.0000041
Nó máx		0.00032	-0.00264	-1.13669	-0.0005651	0.0081809	-0.0000071
360 Comb.		1	1	1	1	1	2

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
361	1	0.00035	-0.00095	-2.04858	-0.0008571	0.0061343	0.0000097
	2	-0.00007	0.00120	0.47604	0.0008424	-0.0014413	-0.0000083
	3	0.00010	0.00032	-0.56137	0.0001440	0.0016717	-0.0000009
Nó máx		0.00035	0.00120	-2.04858	-0.0008571	0.0061343	0.0000097
361 Comb.		1	2	1	1	1	1
362	1	0.00033	0.00202	-2.64223	-0.0011909	0.0031869	0.0000236
	2	-0.00007	-0.00036	0.61888	0.0010833	-0.0008169	-0.0000095
	3	0.00010	0.00062	-0.72118	0.0001488	0.0008284	0.0000041
Nó máx		0.00033	0.00202	-2.64223	-0.0011909	0.0031869	0.0000236
362 Comb.		1	1	1	1	1	1
363	1	0.00217	0.03363	-1.86285	-0.0030066	-0.0041380	0.0000525
	2	-0.00062	-0.00970	0.52312	0.0011897	0.0006657	-0.0000154
	3	0.00053	0.00811	-0.45732	-0.0005347	-0.0013082	0.0000125
Nó máx		0.00217	0.03363	-1.86285	-0.0030066	-0.0041380	0.0000525
363 Comb.		1	1	1	1	1	1
364	1	0.00022	0.03362	-1.96403	-0.0019668	-0.0038622	0.0000679
	2	-0.00005	-0.00969	0.56473	0.0008720	0.0006291	-0.0000198
	3	0.00006	0.00810	-0.47439	-0.0002945	-0.0012165	0.0000162
Nó máx		0.00022	0.03362	-1.96403	-0.0019668	-0.0038622	0.0000679
364 Comb.		1	1	1	1	1	1
365	1	-0.00028	0.02529	-2.56582	0.0002101	-0.0047703	-0.0000174
	2	0.00010	-0.00729	0.75139	0.0002882	0.0012042	0.0000054
	3	-0.00006	0.00610	-0.61171	0.0002561	-0.0012508	-0.0000040
Nó máx		-0.00028	0.02529	-2.56582	0.0002882	-0.0047703	-0.0000174
365 Comb.		1	1	1	2	1	1
366	1	0.00022	0.02530	-2.55245	0.0006424	-0.0050882	-0.0000179
	2	-0.00006	-0.00730	0.75689	0.0000906	0.0013458	0.0000056
	3	0.00005	0.00610	-0.60298	0.0003174	-0.0012980	-0.0000041
Nó máx		0.00022	0.02530	-2.55245	0.0006424	-0.0050882	-0.0000179
366 Comb.		1	1	1	1	1	1
367	1	0.00451	0.01738	-2.55543	-0.0027914	-0.0017462	0.0000703
	2	-0.00132	-0.00499	0.59155	0.0013850	0.0001571	-0.0000210
	3	0.00107	0.00420	-0.70161	-0.0003311	-0.0006250	0.0000165
Nó máx		0.00451	0.01738	-2.55543	-0.0027914	-0.0017462	0.0000703
367 Comb.		1	1	1	1	1	1
368	1	0.00233	0.01738	-2.64103	-0.0026863	-0.0017650	0.0000674
	2	-0.00067	-0.00499	0.63428	0.0013697	0.0001741	-0.0000201
	3	0.00056	0.00420	-0.71160	-0.0002970	-0.0006227	0.0000158
Nó máx		0.00233	0.01738	-2.64103	-0.0026863	-0.0017650	0.0000674
368 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
369	1	-0.00028	0.01738	-2.98353	-0.0007957	-0.0025450	-0.0000196
	2	0.00010	-0.00499	0.84788	0.0007599	0.0005890	0.0000062
	3	-0.00006	0.00420	-0.72652	0.0001207	-0.0006988	-0.0000044
Nó máx		-0.00028	0.01738	-2.98353	-0.0007957	-0.0025450	-0.0000196
369 Comb.		1	1	1	1	1	1
370	1	0.00028	0.01738	-3.00205	-0.0004638	-0.0026914	-0.0000192
	2	-0.00008	-0.00499	0.86816	0.0005991	0.0006657	0.0000061
	3	0.00007	0.00420	-0.72218	0.0001623	-0.0007138	-0.0000043
Nó máx		0.00028	0.01738	-3.00205	0.0005991	-0.0026914	-0.0000192
370 Comb.		1	1	1	2	1	1
371	1	0.00271	0.00927	-2.71178	-0.0034453	0.0005559	0.0000601
	2	-0.00079	-0.00259	0.62281	0.0015683	-0.0002933	-0.0000183
	3	0.00065	0.00228	-0.74744	-0.0004919	0.0000556	0.0000139
Nó máx		0.00271	0.00927	-2.71178	-0.0034453	0.0005559	0.0000601
371 Comb.		1	1	1	1	1	1
372	1	0.00064	0.00927	-2.81975	-0.0032855	0.0002496	0.0000667
	2	-0.00017	-0.00259	0.67175	0.0015510	-0.0002249	-0.0000200
	3	0.00017	0.00228	-0.76297	-0.0004364	-0.0000299	0.0000156
Nó máx		0.00064	0.00927	-2.81975	-0.0032855	0.0002496	0.0000667
372 Comb.		1	1	1	1	1	1
373	1	-0.00025	0.00927	-3.16800	-0.0010432	0.0002183	-0.0000198
	2	0.00009	-0.00260	0.87927	0.0009387	-0.0001512	0.0000065
	3	-0.00005	0.00228	-0.78383	0.0001243	0.0000006	-0.0000043
Nó máx		-0.00025	0.00927	-3.16800	-0.0010432	0.0002183	-0.0000198
373 Comb.		1	1	1	1	1	1
374	1	0.00031	0.00927	-3.19283	-0.0006461	0.0002219	-0.0000192
	2	-0.00009	-0.00260	0.90482	0.0007727	-0.0001391	0.0000064
	3	0.00007	0.00228	-0.77899	0.0001897	0.0000092	-0.0000041
Nó máx		0.00031	0.00927	-3.19283	0.0007727	0.0002219	-0.0000192
374 Comb.		1	1	1	2	1	1
375	1	0.00043	0.00003	-0.00890	-0.0002684	0.0034736	0.0000013
	2	-0.00014	-0.00001	-0.00779	0.0000648	-0.0010737	-0.0000007
	3	0.00010	0.00001	-0.00824	-0.0000721	0.0007949	0.0000001
Nó máx		0.00043	0.00003	-0.00890	-0.0002684	0.0034736	0.0000013
375 Comb.		1	1	1	1	1	1
376	1	-0.00015	0.03630	-1.14756	0.0045180	-0.0074584	-0.0000055
	2	0.00006	-0.01003	0.38573	-0.0014769	0.0031708	0.0000019
	3	-0.00003	0.00901	-0.24433	0.0009865	-0.0011969	-0.0000012
Nó máx		-0.00015	0.03630	-1.14756	0.0045180	-0.0074584	-0.0000055
376 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
377	1	0.00000	0.03382	-1.00016	0.0051700	-0.0064384	-0.0000040
	2	0.00000	-0.00922	0.33687	-0.0017345	0.0027346	0.0000016
	3	0.00000	0.00846	-0.21254	0.0011027	-0.0010347	-0.0000007
Nó máx		0.00000	0.03382	-1.00016	0.0051700	-0.0064384	-0.0000040
377 Comb.		2	1	1	1	1	1
378	1	0.00022	0.03786	-2.33511	0.0010664	0.0064912	-0.0000272
	2	-0.00005	-0.01093	0.88984	-0.0004103	-0.0030455	0.0000076
	3	0.00006	0.00912	-0.43536	0.0001965	0.0008733	-0.0000067
Nó máx		0.00022	0.03786	-2.33511	0.0010664	0.0064912	-0.0000272
378 Comb.		1	1	1	1	1	1
379	1	0.00040	0.03401	-3.13672	0.0020925	0.0050990	0.0000196
	2	-0.00011	-0.00989	1.26362	-0.0008116	-0.0023776	-0.0000057
	3	0.00010	0.00815	-0.54457	0.0003818	0.0006947	0.0000047
Nó máx		0.00040	0.03401	-3.13672	0.0020925	0.0050990	0.0000196
379 Comb.		1	1	1	1	1	1
380	1	0.00020	0.03401	-3.04354	0.0025216	0.0045428	-0.0000202
	2	-0.00005	-0.00989	1.22571	-0.0010529	-0.0021983	0.0000055
	3	0.00006	0.00815	-0.52861	0.0004159	0.0005718	-0.0000051
Nó máx		0.00020	0.03401	-3.04354	0.0025216	0.0045428	-0.0000202
380 Comb.		1	1	1	1	1	1
381	1	-0.00006	0.02958	-3.57119	0.0031795	0.0018652	0.0000080
	2	0.00002	-0.00864	1.48321	-0.0013376	-0.0010185	-0.0000024
	3	-0.00001	0.00706	-0.59374	0.0005185	0.0001665	0.0000019
Nó máx		-0.00006	0.02958	-3.57119	0.0031795	0.0018652	0.0000080
381 Comb.		1	1	1	1	1	1
382	1	0.00018	0.02958	-3.43877	0.0033687	0.0015671	-0.0000297
	2	-0.00004	-0.00864	1.42533	-0.0015112	-0.0008999	0.0000085
	3	0.00005	0.00706	-0.57342	0.0004941	0.0001138	-0.0000072
Nó máx		0.00018	0.02958	-3.43877	0.0033687	0.0015671	-0.0000297
382 Comb.		1	1	1	1	1	1
383	1	-0.00044	0.02403	-3.56845	0.0037517	-0.0018975	-0.0000016
	2	0.00013	-0.00704	1.51278	-0.0016977	0.0006044	0.0000004
	3	-0.00010	0.00573	-0.57520	0.0005416	-0.0004236	-0.0000004
Nó máx		-0.00044	0.02403	-3.56845	0.0037517	-0.0018975	-0.0000016
383 Comb.		1	1	1	1	1	1
384	1	0.00016	0.02403	-3.41609	0.0037729	-0.0020251	-0.0000375
	2	-0.00004	-0.00704	1.44174	-0.0017955	0.0006851	0.0000108
	3	0.00004	0.00573	-0.55444	0.0004927	-0.0004286	-0.0000090
Nó máx		0.00016	0.02403	-3.41609	0.0037729	-0.0020251	-0.0000375
384 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
385	1	-0.00074	0.01756	-3.08567	0.0039179	-0.0056974	-0.0000090
	2	0.00022	-0.00517	1.32881	-0.0018879	0.0022815	0.0000026
	3	-0.00017	0.00417	-0.48519	0.0004978	-0.0009972	-0.0000022
Nó máx		-0.00074	0.01756	-3.08567	0.0039179	-0.0056974	-0.0000090
385 Comb.		1	1	1	1	1	1
386	1	0.00012	0.01756	-2.92944	0.0037819	-0.0057150	-0.0000435
	2	-0.00003	-0.00517	1.25192	-0.0018848	0.0023386	0.0000126
	3	0.00003	0.00417	-0.46629	0.0004437	-0.0009708	-0.0000104
Nó máx		0.00012	0.01756	-2.92944	0.0037819	-0.0057150	-0.0000435
386 Comb.		1	1	1	1	1	1
387	1	-0.00096	0.01044	-2.14937	0.0037445	-0.0089489	-0.0000145
	2	0.00029	-0.00310	0.93879	-0.0019064	0.0037468	0.0000043
	3	-0.00023	0.00247	-0.33019	0.0004157	-0.0014701	-0.0000034
Nó máx		-0.00096	0.01044	-2.14937	0.0037445	-0.0089489	-0.0000145
387 Comb.		1	1	1	1	1	1
388	1	0.00008	0.01044	-2.00318	0.0034338	-0.0088969	-0.0000473
	2	-0.00002	-0.00310	0.86347	-0.0017758	0.0037875	0.0000138
	3	0.00002	0.00247	-0.31449	0.0003649	-0.0014248	-0.0000113
Nó máx		0.00008	0.01044	-2.00318	0.0034338	-0.0088969	-0.0000473
388 Comb.		1	1	1	1	1	1
389	1	-0.00110	0.00315	-0.85255	0.0029206	-0.0113630	-0.0000222
	2	0.00033	-0.00096	0.37626	-0.0014396	0.0051892	0.0000066
	3	-0.00026	0.00073	-0.12868	0.0003521	-0.0016124	-0.0000052
Nó máx		-0.00110	0.00315	-0.85255	0.0029206	-0.0113630	-0.0000222
389 Comb.		1	1	1	1	1	1
390	1	0.00003	0.00315	-0.74254	0.0024611	-0.0108822	-0.0000453
	2	-0.00001	-0.00096	0.32166	-0.0012136	0.0047036	0.0000136
	3	0.00001	0.00073	-0.11564	0.0002964	-0.0017009	-0.0000106
Nó máx		0.00003	0.00315	-0.74254	0.0024611	-0.0108822	-0.0000453
390 Comb.		1	1	1	1	1	1
391	1	0.01456	0.06075	-0.85839	-0.0060266	-0.0170991	0.0001315
	2	-0.00434	-0.01795	0.28250	0.0020126	0.0073389	-0.0000408
	3	0.00343	0.01439	-0.18631	-0.0012908	-0.0027032	0.0000300
Nó máx		0.01456	0.06075	-0.85839	-0.0060266	-0.0170991	0.0001315
391 Comb.		1	1	1	1	1	1
392	1	0.01103	0.05832	-1.03742	-0.0054391	-0.0161816	0.0001200
	2	-0.00326	-0.01717	0.34211	0.0018048	0.0069346	-0.0000360
	3	0.00261	0.01385	-0.22476	-0.0011719	-0.0025643	0.0000281
Nó máx		0.01103	0.05832	-1.03742	-0.0054391	-0.0161816	0.0001200
392 Comb.		1	1	1	1	1	1

DESLOCAMENTOS (Unids: cm)							
Nó		*X1*	*X2*	*X3*	*X4*	*X5*	*X6*
393	1	0.00170	0.05225	-1.37421	-0.0029693	-0.0139103	0.0000727
	2	-0.00049	-0.01523	0.45316	0.0009781	0.0059414	-0.0000215
	3	0.00041	0.01250	-0.29774	-0.0006440	-0.0022160	0.0000172
Nó máx		0.00170	0.05225	-1.37421	-0.0029693	-0.0139103	0.0000727
393	Comb.	1	1	1	1	1	1
394	1	0.00095	0.03787	-2.36091	0.0002261	0.0074024	0.0000398
	2	-0.00027	-0.01093	0.89986	-0.0000785	-0.0033082	-0.0000116
	3	0.00023	0.00912	-0.44005	0.0000467	0.0010930	0.0000095
Nó máx		0.00095	0.03787	-2.36091	0.0002261	0.0074024	0.0000398
394	Comb.	1	1	1	1	1	1
Máx.		0.24422	0.12356	-4.52144	-0.0081602	-0.0204884	0.0006191
Comb		1	1	1	1	1	1
Nó		88	191	197	212	92	212

Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
1	Tubo 168.3x7.1	1	5715 (1)	123	-0.06 (1)	MI	0.00 (1)	0.07 (1)	0.00	0.10 (1)	
2	Tubo 168.3x7.1	1	5701 (1)	123	-0.06 (1)	MI	0.00 (1)	0.07 (1)	0.00	0.10 (1)	
3	Tubo 168.3x7.1	1	5013 (1)	123	-0.07 (1)	MI	0.00 (1)	0.08 (1)	0.00	0.12 (1)	
4	Tubo 168.3x7.1	1	5040 (1)	123	-0.07 (1)	MI	0.00 (1)	0.08 (1)	0.00	0.12 (1)	
5	Tubo 168.3x7.1	1	4832 (1)	123	-0.07 (1)	MI	0.00 (1)	0.08 (1)	0.00	0.12 (1)	
6	Tubo 168.3x7.1	1	4826 (1)	123	-0.07 (1)	MI	0.00 (1)	0.08 (1)	0.00	0.12 (1)	
7	W 150x13	1	3399 (1)	169	-0.03 (2)	MJ	0.16 (1)	0.10 (1)	0.12 (1)	0.13 (1)	
8	W 150x13	1	3008 (1)	169	-0.03 (2)	MJ	0.19 (1)	0.11 (1)	0.13 (1)	0.14 (1)	
9	W 150x13	1	2894 (1)	169	-0.03 (2)	MJ	0.19 (1)	0.12 (1)	0.14 (1)	0.15 (1)	
10	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
11	W 150x13	1	9999	4	-0.04 (1)	MI	0.05 (1)	0.17 (1)	0.00	0.19 (1)	
12	W 150x13	1	9999	4	-0.04 (1)	MI	0.05 (1)	0.17 (1)	0.00	0.20 (1)	
13	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
14	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
15	W 150x13	1	9999	4	-0.05 (1)	MI	0.06 (1)	0.20 (1)	0.00	0.22 (1)	
16	W 150x13	1	9999	4	-0.05 (1)	MI	0.06 (1)	0.21 (1)	0.00	0.23 (1)	
17	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
18	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
19	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
20	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
21	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
22	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		

MAFRA
ARQUITETURA

Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
24	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
25	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
26	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
27	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
28	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
29	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
30	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
31	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
32	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
33	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
34	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
35	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
36	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
37	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
38	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.05 (1)	
						MI	0.00 (1)	0.03 (1)	0.00		

Resultados Gerais											
					CAPACIDADES						
Barr	Seção		Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
39	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
40	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
41	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
42	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
43	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
44	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
45	W 250x28.4	1	970 (1)	70	0.00 (1)	MJ	0.02 (1)	0.14 (1)	0.15 (1)	0.15 (1)	
46	W 250x28.4	1	873 (1)	72	0.00 (1)	MJ	0.02 (1)	0.16 (1)	0.16 (1)	0.16 (1)	
47	Tubo 168.3x7.1	1	1368 (1)	123	-0.10 (1)	MI	0.01 (1)	0.28 (1)	0.00	0.36 (1)	
48	Tubo 168.3x7.1	1	1244 (1)	123	-0.10 (1)	MI	0.02 (1)	0.31 (1)	0.00	0.39 (1)	
49	W 150x13	1	445 (1)	284	-0.38 (2)	MJ	0.27 (1)	0.45 (1)	1.08 (1)	1.15 (1)	***
50	W 150x13	1	9999	4	-0.06 (1)	MI	0.21 (1)	0.41 (1)	0.00	0.44 (1)	
51	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
52	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
53	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
54	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
55	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
56	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		

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Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
57	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
58	W 150x13	1	9999	33	0.00 (1)	MJ	0.00 (1)	0.01 (1)	0.01 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
97	W 150x13	1	9999	33	0.00 (1)	MJ	0.00 (1)	0.01 (1)	0.01 (1)	0.02 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
98	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
99	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
100	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
101	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
102	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
103	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
104	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
105	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
106	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
107	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
108	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
109	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
110	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	

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Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
111	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
112	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
113	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
114	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
115	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
116	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
117	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
118	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
119	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
120	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
121	W 150x13	1	9999	33	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
122	W 150x13	1	9999	4	-0.05 (1)	MI	0.06 (1)	0.20 (1)	0.00	0.22 (1)	
123	W 150x13	1	9999	4	-0.05 (1)	MI	0.06 (1)	0.20 (1)	0.00	0.23 (1)	
124	W 150x13	1	9999	4	-0.02 (1)	MI	0.01 (1)	0.01 (1)	0.00	0.02 (1)	
125	W 250x28.4	1	882 (1)	62	0.00 (2)	MJ	0.04 (1)	0.17 (1)	0.19 (1)	0.19 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
127	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		

Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
129	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
131	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
133	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
134	W 150x13	1	9999	4	-0.06 (1)	MI	0.20 (1)	0.39 (1)	0.00	0.42 (1)	
136	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.06 (1)	
						MI	0.01 (1)	0.04 (1)	0.00		
138	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.05 (1)	
						MI	0.00 (1)	0.03 (1)	0.00		
140	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
142	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
144	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
146	W 150x13	1	9999	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
148	W 150x13	1	9966 (1)	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
150	W 150x13	1	8834 (1)	28	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		
152	W 150x13	1	9999	33	0.00 (1)	MJ	0.00 (1)	0.01 (1)	0.01 (1)	0.02 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
153	W 150x13	1	9999	32	0.00 (1)	MJ	0.00 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
						MI	0.00 (1)	0.02 (1)	0.00		

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Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
155	W 150x13	1	2646 (1)	169	0.00	MJ	0.01 (1)	0.07 (1)	0.08 (1)	0.08 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
156	Ue# 75x40x15#2.25	2	9999	35	0.00	MJ	0.02 (2)	0.04 (2)	0.04 (2)	0.04 (2)	
158	Ue# 75x40x15#2.25	1	9999	67	0.00 (1)	MJ	0.01 (1)	0.01 (1)	0.01 (1)	0.02 (1)	
159	Ue# 75x40x15#2.25	1	9999	52	-0.01 (1)	MJ	0.01 (1)	0.01 (1)	0.00 (1)	0.05 (1)	
						MI	0.00 (1)	0.03 (1)	0.03 (3)		
160	Ue# 75x40x15#2.25	1	8689 (1)	103	0.01 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.04 (1)	
161	Ue# 75x40x15#2.25	1	9999	71	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
162	Ue# 75x40x15#2.25	1	9999	21	0.00 (1)	MI	0.00	0.00	0.00	0.00 (1)	
163	Ue# 75x40x15#2.25	1	9999	91	0.00 (2)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
164	Ue# 75x40x15#2.25	2	7726 (2)	65	0.00 (1)	MJ	0.03 (2)	0.06 (2)	0.05 (2)	0.05 (2)	
165	Ue# 75x40x15#2.25	2	9953 (2)	63	0.00	MJ	0.02 (2)	0.05 (2)	0.04 (2)	0.04 (2)	
166	Ue# 75x40x15#2.25	1	9999	63	0.00 (1)	MJ	0.00 (1)	0.01 (1)	0.01 (1)	0.01 (1)	
174	W 250x28.4	1	381 (1)	95	0.00 (1)	MJ	0.03 (1)	0.27 (1)	0.28 (1)	0.28 (1)	
175	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
176	W 250x28.4	1	384 (1)	95	0.00 (1)	MJ	0.03 (1)	0.27 (1)	0.28 (1)	0.28 (1)	
179	W 250x28.4	1	380 (1)	95	0.00 (2)	MJ	0.03 (1)	0.27 (1)	0.28 (1)	0.28 (1)	
180	Ue# 75x40x15#2.25	1	9999	83	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
182	W 250x28.4	1	321 (1)	95	0.00 (1)	MJ	0.04 (1)	0.32 (1)	0.34 (1)	0.34 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
183	Ue# 75x40x15#2.25	1	9999	83	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
188	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
193	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
198	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
203	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
204	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
205	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
210	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	

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Resultados Gerais											
					CAPACIDADES						
Barr	Seção		Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
211	Ue# 75x40x15#2.25	1	9999	95	0.00 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
212	W 150x13	1	7883 (1)	68	0.00 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
213	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
215	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
218	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
219	W 150x13	1	7931 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
220	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
222	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
225	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
226	W 150x13	1	7928 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
227	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
229	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
232	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
233	W 150x13	1	7925 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
234	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
236	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
239	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
240	W 150x13	1	7922 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
241	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
243	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
246	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
247	W 150x13	1	7918 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
248	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
250	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
253	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
254	W 150x13	1	7855 (1)	68	0.00 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
255	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
257	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	

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Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
260	Ue# 75x40x15#2.25	1	9999	83	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
261	W 150x13	1	7849 (1)	68	0.00 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
262	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
264	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
267	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
268	W 150x13	1	7906 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
269	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
271	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
274	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
275	W 150x13	1	7904 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
276	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
278	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
281	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
282	W 150x13	1	7900 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
283	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
285	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
288	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
289	W 150x13	1	7897 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
290	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
292	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
295	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
296	W 150x13	1	7893 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
297	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
299	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
302	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
303	W 150x13	1	7828 (1)	68	0.00 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
304	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
306	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	

Resultados Gerais											
					CAPACIDADES						
Barr	Seção		Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
309	Ue# 75x40x15#2.25	1	9999	83	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
310	W 150x13	1	7821 (1)	68	0.00 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
311	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
313	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
316	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
317	W 150x13	1	7872 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
318	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
320	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
323	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
324	W 150x13	1	7096 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.04 (1)	
325	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
327	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
330	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
332	W 150x13	1	2047 (1)	68	0.00 (1)	MJ	0.01 (1)	0.18 (1)	0.18 (1)	0.19 (1)	
333	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
334	W 150x13	1	9999	13	0.00 (1)	MJ	0.01 (1)	0.14 (1)	0.14 (1)	0.14 (1)	
335	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
336	W 150x13	1	6042 (1)	68	0.00 (1)	MJ	0.02 (1)	0.12 (1)	0.12 (1)	0.12 (1)	
338	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
340	W 150x13	1	9999	26	0.00 (2)	MJ	0.02 (1)	0.04 (1)	0.04 (1)	0.04 (1)	
341	Ue# 75x40x15#2.25	1	9999	85	0.00	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
342	W 150x13	1	9999	13	0.00 (2)	MJ	0.02 (1)	0.06 (1)	0.06 (1)	0.06 (1)	
343	Ue# 75x40x15#2.25	1	9999	64	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
344	W 150x13	1	9999	9	0.00 (2)	MJ	0.02 (1)	0.08 (1)	0.08 (1)	0.08 (1)	
345	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
346	W 150x13	1	9999	18	0.00 (2)	MJ	0.01 (1)	0.10 (1)	0.10 (1)	0.10 (1)	
348	W 150x13	1	8887 (1)	68	0.00 (2)	MJ	0.02 (1)	0.09 (1)	0.09 (1)	0.09 (1)	
350	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	

Resultados Gerais											
					CAPACIDADES						
Barr	Seção		Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
356	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
359	W 250x28.4	1	1848 (1)	57	0.00 (1)	MJ	0.02 (1)	0.20 (1)	0.20 (1)	0.20 (1)	
362	Ue# 75x40x15#2.25	1	9999	83	-0.01 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
363	W 150x13	1	9999	82	0.00	MJ	0.00 (1)	0.01 (1)	0.01 (1)	0.01 (1)	
364	W 150x13	1	9999	33	0.00 (1)	MJ	0.00 (1)	0.01 (1)	0.01 (1)	0.02 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
369	W 250x28.4	1	463 (1)	87	0.00 (1)	MJ	0.03 (1)	0.24 (1)	0.26 (1)	0.26 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
370	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
372	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (2)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
374	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
377	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
379	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (2)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
381	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
384	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
386	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (2)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
388	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
391	Ue# 75x40x15#2.25	1	9999	83	-0.01 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
393	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
395	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
398	Ue# 75x40x15#2.25	1	9999	83	-0.01 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
400	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
402	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
405	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
407	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
409	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
412	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	

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Resultados Gerais												
					CAPACIDADES							
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom		
414	Ue# 75x40x15#2.25	2	9999	83	0.00	MJ	0.02 (2)	0.05 (2)	0.04 (2)	0.04 (1)		
						MI	0.00 (1)	0.01 (1)	0.00			
416	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)		
419	Ue# 75x40x15#2.25	1	9999	25	0.00 (2)	MI	0.00	0.00	0.00	0.00 (1)		
420	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
421	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
422	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
423	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
424	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)		
425	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)		
426	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
427	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
428	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
429	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
430	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
431	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
432	Ue# 75x40x15#2.25	1	9999	83	0.00	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)		
433	Ue# 75x40x15#2.25	1	9999	83	0.00	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)		
434	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
435	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
436	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
437	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
438	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
439	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
440	Ue# 75x40x15#2.25	1	9999	83	0.00	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)		
441	Ue# 75x40x15#2.25	1	9999	83	0.00	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)		
442	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		
443	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)		

Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
444	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
445	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
446	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
447	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
448	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
449	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
450	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
451	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
452	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
453	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
454	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
455	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
456	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
457	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
458	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
459	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
460	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
461	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
462	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
463	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
464	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
465	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
466	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
467	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
468	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
469	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
470	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
471	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	

Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
472	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
473	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
474	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
475	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
476	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
477	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
478	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
479	Ue# 75x40x15#2.25	1	9999	83	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
480	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
481	Ue# 75x40x15#2.25	1	9999	83	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
482	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
483	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
484	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
485	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
486	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
487	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
488	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
489	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
490	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
491	Ue# 75x40x15#2.25	1	9999	83	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
492	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
493	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
494	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
495	Ue# 75x40x15#2.25	1	9999	83	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
496	Ue# 75x40x15#2.25	1	9999	83	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
497	Ue# 75x40x15#2.25	1	9999	83	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
498	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
499	Ue# 75x40x15#2.25	1	9999	83	0.00	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	

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Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
500	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
501	Ue# 75x40x15#2.25	1	9999	83	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
502	Ue# 75x40x15#2.25	1	9999	8	-0.01 (1)	MJ	0.01 (1)	0.00 (1)	0.00 (1)	0.04 (1)	
						MI	0.01 (1)	0.03 (1)	0.03 (3)		
503	W 250x28.4	1	385 (1)	95	0.00 (2)	MJ	0.03 (1)	0.27 (1)	0.28 (1)	0.28 (1)	
506	W 250x28.4	1	870 (1)	57	0.00 (1)	MJ	0.03 (1)	0.29 (1)	0.29 (1)	0.29 (1)	
511	Ue# 75x40x15#2.25	1	9999	79	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
512	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
513	Ue# 75x40x15#2.25	1	9999	91	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
514	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
515	Ue# 75x40x15#2.25	1	9999	91	0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
516	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
517	Ue# 75x40x15#2.25	1	9999	91	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
518	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
519	W 250x28.4	1	250 (1)	104	0.00 (2)	MJ	0.04 (1)	0.38 (1)	0.40 (1)	0.41 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
520	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
521	Ue# 75x40x15#2.25	1	9999	91	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
522	Ue# 75x40x15#2.25	1	9999	91	-0.04 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.06 (1)	
524	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
525	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
527	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
528	Ue# 75x40x15#2.25	1	9999	91	0.00 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
530	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
531	Ue# 75x40x15#2.25	1	9999	91	-0.01 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
533	Ue# 75x40x15#2.25	1	9999	91	-0.02 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
534	Ue# 75x40x15#2.25	1	9999	91	-0.01 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
536	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	

Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
537	Ue# 75x40x15#2.25	1	9999	91	-0.01 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
539	Ue# 75x40x15#2.25	1	9999	91	-0.01 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.04 (1)	
540	Ue# 75x40x15#2.25	1	9999	91	-0.01 (2)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
542	Ue# 75x40x15#2.25	1	4830 (1)	126	-0.01 (1)	MJ	0.01 (1)	0.05 (1)	0.05 (1)	0.06 (1)	
544	Ue# 75x40x15#2.25	1	9999	34	0.00 (1)	MJ	0.01 (2)	0.01 (2)	0.01 (2)	0.01 (1)	
546	Ue# 75x40x15#2.25	1	9999	85	0.00 (2)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
547	W 150x13	1	9999	37	0.00 (1)	MJ	0.03 (1)	0.08 (1)	0.08 (1)	0.09 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
548	Ue# 75x40x15#2.25	1	7682 (1)	85	0.00 (1)	MJ	0.02 (1)	0.04 (1)	0.04 (1)	0.05 (1)	
549	W 150x13	1	705 (1)	106	0.00 (1)	MJ	0.02 (1)	0.13 (1)	0.24 (2)	0.25 (2)	
						MI	0.00 (1)	0.01 (1)	0.00		
550	Ue# 75x40x15#2.25	1	6565 (2)	85	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
551	W 150x13	2	1068 (1)	115	0.00 (2)	MJ	0.01 (1)	0.08 (1)	0.23 (2)	0.24 (2)	
						MI	0.00 (1)	0.01 (1)	0.00		
552	Ue# 75x40x15#2.25	2	5672 (2)	85	0.00 (1)	MJ	0.02 (2)	0.06 (2)	0.06 (2)	0.06 (1)	
553	W 150x13	2	1429 (1)	124	0.00	MJ	0.01 (1)	0.08 (1)	0.25 (2)	0.26 (2)	
554	Ue# 75x40x15#2.25	2	4993 (2)	85	0.00 (1)	MJ	0.02 (2)	0.07 (2)	0.06 (2)	0.06 (2)	
555	W 150x13	2	1631 (1)	133	0.00	MJ	0.02 (1)	0.08 (1)	0.26 (2)	0.26 (2)	
556	Ue# 75x40x15#2.25	2	4460 (2)	85	0.00 (1)	MJ	0.03 (2)	0.08 (2)	0.07 (2)	0.07 (2)	
557	W 150x13	2	1692 (1)	142	0.00	MJ	0.02 (1)	0.09 (1)	0.26 (2)	0.26 (2)	
558	Ue# 75x40x15#2.25	2	4029 (2)	85	0.00 (1)	MJ	0.03 (2)	0.08 (2)	0.08 (2)	0.08 (2)	
559	W 150x13	2	1721 (1)	151	0.00	MJ	0.02 (1)	0.10 (1)	0.27 (2)	0.27 (2)	
560	Ue# 75x40x15#2.25	2	3674 (2)	85	0.00 (1)	MJ	0.03 (2)	0.09 (2)	0.09 (2)	0.09 (2)	
561	W 150x13	1	2127 (1)	160	0.00 (1)	MJ	0.02 (1)	0.10 (1)	0.38 (1)	0.38 (1)	
562	Ue# 75x40x15#2.25	1	9999	85	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
563	W 150x13	1	9999	13	0.00 (1)	MJ	0.02 (1)	0.11 (1)	0.11 (1)	0.11 (1)	
564	Ue# 75x40x15#2.25	1	9067 (1)	85	0.00 (2)	MJ	0.01 (1)	0.04 (1)	0.04 (1)	0.04 (1)	

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Resultados Gerais											
					CAPACIDADES						
Barr	Seção		Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
566	Ue# 75x40x15#2.25	1	7494 (1)	85	0.00 (2)	MJ	0.02 (1)	0.04 (1)	0.00 (1)	0.04 (2)	
						MI	0.00 (2)	0.00 (2)	0.04 (3)		
568	Ue# 75x40x15#2.25	2	6273 (2)	85	0.00 (2)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
570	Ue# 75x40x15#2.25	2	5359 (2)	85	0.00 (2)	MJ	0.02 (2)	0.06 (2)	0.06 (2)	0.06 (2)	
572	Ue# 75x40x15#2.25	2	4677 (2)	85	0.00 (2)	MJ	0.03 (2)	0.07 (2)	0.07 (2)	0.07 (2)	
574	Ue# 75x40x15#2.25	2	4149 (2)	85	0.00 (2)	MJ	0.03 (2)	0.08 (2)	0.08 (2)	0.08 (2)	
576	Ue# 75x40x15#2.25	2	3728 (2)	85	0.00 (2)	MJ	0.03 (2)	0.09 (2)	0.09 (2)	0.09 (2)	
579	Ue# 75x40x15#2.25	1	9999	21	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.03 (1)	
580	W 150x13	1	4632 (1)	68	-0.03 (1)	MJ	0.01 (1)	0.04 (1)	0.04 (1)	0.06 (1)	
581	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
583	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
586	W 150x13	1	4279 (1)	68	-0.03 (1)	MJ	0.01 (1)	0.05 (1)	0.05 (1)	0.06 (1)	
587	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
589	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
590	W 150x13	1	4169 (1)	68	-0.03 (1)	MJ	0.01 (1)	0.05 (1)	0.05 (1)	0.07 (1)	
591	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
593	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
594	W 150x13	1	7890 (1)	68	0.00 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
595	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
597	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
598	W 150x13	1	7943 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
599	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
601	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
602	W 150x13	1	7967 (1)	68	0.00	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
603	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
605	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
606	W 150x13	1	9999	68	0.00	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
607	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	

Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
609	Ue# 75x40x15#2.25	2	4383 (2)	83	0.00	MJ	0.04 (2)	0.20 (2)	0.19 (2)	0.19 (2)	
610	W 150x13	2	4464 (1)	68	0.00	MJ	0.01 (1)	0.05 (1)	0.06 (2)	0.06 (2)	
611	Ue# 75x40x15#2.25	2	7324 (2)	80	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
613	Ue# 75x40x15#2.25	2	4305 (2)	81	0.00	MJ	0.04 (2)	0.20 (2)	0.20 (2)	0.20 (2)	
646	W 150x13	1	7936 (1)	21	0.00 (1)	MJ	0.02 (1)	0.15 (1)	0.15 (1)	0.16 (1)	
647	Ue# 75x40x15#2.25	1	9999	83	-0.01 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.04 (1)	
648	W 150x13	1	7691 (1)	18	0.00 (1)	MJ	0.01 (1)	0.18 (1)	0.18 (1)	0.19 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
650	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
651	W 150x13	1	3252 (1)	68	0.00 (2)	MJ	0.00 (2)	0.10 (1)	0.11 (1)	0.12 (1)	
652	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
653	W 150x13	1	9999	13	0.00 (2)	MJ	0.01 (1)	0.10 (1)	0.10 (1)	0.10 (1)	
654	Ue# 75x40x15#2.25	1	9999	85	0.00	MJ	0.01 (1)	0.01 (1)	0.02 (1)	0.02 (1)	
655	W 150x13	1	1978 (1)	71	0.00	MJ	0.02 (1)	0.07 (1)	0.08 (1)	0.08 (1)	
657	Ue# 75x40x15#2.25	1	9999	85	0.00 (1)	MJ	0.01 (1)	0.02 (1)	0.02 (1)	0.02 (1)	
659	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
661	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
662	W 150x13	1	1759 (1)	68	0.00 (1)	MJ	0.06 (1)	0.09 (1)	0.10 (1)	0.10 (1)	
663	Ue# 75x40x15#2.25	1	9999	14	0.00	MI	0.00 (2)	0.00 (2)	0.00	0.00 (1)	
665	Ue# 75x40x15#2.25	1	9999	16	0.00 (1)	MI	0.00 (2)	0.00 (2)	0.00	0.00 (1)	
667	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
669	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
672	W 150x13	1	1114 (1)	68	-0.11 (1)	MJ	0.03 (1)	0.31 (1)	0.31 (1)	0.38 (1)	
673	Ue# 75x40x15#2.25	2	6496 (2)	83	0.00 (2)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (2)	
675	Ue# 75x40x15#2.25	2	6497 (2)	83	0.00 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.05 (1)	
679	Ue# 75x40x15#2.25	1	6498 (2)	83	-0.01 (1)	MJ	0.02 (2)	0.05 (2)	0.05 (2)	0.06 (1)	
683	Ue# 75x40x15#2.25	1	5600 (2)	83	-0.01 (1)	MJ	0.02 (2)	0.06 (2)	0.06 (2)	0.06 (1)	
687	Ue# 75x40x15#2.25	2	4920 (2)	83	-0.01 (1)	MJ	0.03 (2)	0.07 (2)	0.07 (2)	0.07 (1)	

MAFRA
ARQUITETURA

Resultados Gerais											
					CAPACIDADES						
Barr	Seção	Co	Flec L/	Esbl	Axial	Dir	Corta	Mom	LTB	Combinada Axial+Mom	
691	Ue# 75x40x15#2.25	2	4387 (2)	83	0.00 (1)	MJ	0.03 (2)	0.08 (2)	0.08 (2)	0.08 (2)	
695	Ue# 75x40x15#2.25	1	3599 (1)	83	0.00 (1)	MJ	0.03 (2)	0.09 (1)	0.09 (1)	0.09 (1)	
699	Ue# 75x40x15#2.25	1	9999	46	0.00 (1)	MJ	0.02 (1)	0.04 (1)	0.04 (1)	0.04 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
701	W 250x28.4	1	344 (1)	90	0.00 (1)	MJ	0.05 (1)	0.32 (1)	0.34 (1)	0.34 (1)	
702	W 150x13	1	1518 (1)	49	-0.09 (1)	MJ	0.04 (1)	0.31 (1)	0.31 (1)	0.37 (1)	
						MI	0.00 (1)	0.01 (1)	0.00		
703	Ue# 75x40x15#2.25	1	9111 (1)	85	0.00 (2)	MJ	0.01 (1)	0.04 (1)	0.04 (1)	0.04 (1)	
705	Ue# 75x40x15#2.25	1	9999	85	0.00 (1)	MJ	0.01 (1)	0.03 (1)	0.03 (1)	0.03 (1)	
707	Ue# 75x40x15#2.25	1	9079 (1)	83	-0.01 (1)	MJ	0.01 (1)	0.04 (1)	0.04 (1)	0.05 (1)	
708	W 250x28.4	1	9999	10	0.00 (1)	MJ	0.03 (1)	0.22 (1)	0.22 (1)	0.22 (1)	
711	Ue# 75x40x15#2.25	1	7625 (1)	83	-0.01 (1)	MJ	0.02 (1)	0.05 (1)	0.04 (1)	0.05 (1)	