Lista de Anexos de Cálculo

Anexo A – Perdas instantâneas do pré-esforço

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
0,000	0,000	1065,642	1065,642	19820,939
0,410	-0,107	1068,821	1068,821	19880,078
0,820	-0,210	1072,001	1072,001	19939,217
1,230	-0,309	1075,180	1075,180	19998,356
1,640	-0,405	1078,360	1078,360	20057,494
2,050	-0,497	1081,539	1081,539	20116,633
2,460	-0,585	1084,719	1084,719	20175,772
2,870	-0,670	1087,898	1087,898	20234,910
3,280	-0,752	1091,078	1091,078	20294,049
3,690	-0,829	1094,257	1094,257	20353,188
4,100	-0,903	1097,437	1097,437	20412,327
4,582	-0,986	1100,616	1100,616	20471,465
5,065	-1,063	1103,796	1103,796	20530,604
5,547	-1,136	1106,975	1106,975	20589,743
6,029	-1,203	1110,155	1110,155	20648,881
6,512	-1,266	1113,334	1113,334	20708,020
6,994	-1,323	1116,514	1116,514	20767,159
7,476	-1,376	1119,693	1119,693	20826,298
7,959	-1,423	1122,873	1122,873	20885,436
8,441	-1,466	1126,052	1126,052	20944,575
8,924	-1,503	1129,232	1129,232	21003,714
9,406	-1,536	1132,411	1132,411	21062,852
9,888	-1,563	1135,591	1135,591	21121,991
10,371	-1,586	1138,770	1138,770	21181,130
10,853	-1,603	1141,950	1141,950	21240,269
11,335	-1,616	1145,129	1145,129	21299,407
11,818	-1,623	1148,309	1148,309	21358,546
12,300	-1,626	1151,488	1151,488	21417,685
12,797	-1,624	1154,175	1153,583	21456,637
13,294	-1,620	1156,861	1155,677	21495,590
13,791	-1,612	1159,547	1157,771	21534,542
14,288	-1,601	1162,234	1159,865	21573,495
14,785	-1,587	1164,920	1161,960	21612,447
15,282	-1,570	1167,606	1164,054	21651,400

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
15,779	-1,550	1170,293	1166,148	21690,353
16,276	-1,526	1172,979	1168,242	21729,305
16,773	-1,500	1175,665	1170,336	21768,258
17,270	-1,470	1178,351	1172,431	21807,210
17,767	-1,438	1181,038	1174,525	21846,163
18,264	-1,402	1183,724	1176,619	21885,115
18,761	-1,363	1186,410	1178,713	21924,068
19,258	-1,321	1189,097	1180,808	21963,020
19,755	-1,276	1191,783	1182,902	22001,973
20,252	-1,227	1194,469	1184,996	22040,925
20,748	-1,176	1197,155	1187,090	22079,878
21,245	-1,121	1199,842	1189,184	22118,831
21,742	-1,064	1202,528	1191,279	22157,783
22,239	-1,003	1205,214	1193,373	22196,736
22,736	-0,939	1207,901	1195,467	22235,688
23,233	-0,872	1210,587	1197,561	22274,641
23,730	-0,802	1213,273	1199,656	22313,593
24,227	-0,729	1215,960	1201,750	22352,546
24,724	-0,653	1218,646	1203,844	22391,498
25,221	-0,573	1221,332	1205,938	22430,451
25,718	-0,491	1224,018	1208,032	22469,403
26,215	-0,405	1226,705	1210,127	22508,356
26,712	-0,316	1229,391	1212,221	22547,308
26,944	-0,274	1230,328	1213,199	22565,499
27,209	-0,224	1232,077	1214,315	22586,261
27,706	-0,129	1234,764	1216,409	22625,214
28,203	-0,031	1237,450	1218,504	22664,166
28,700	0,070	1240,136	1220,598	22703,119
29,110	0,151	1246,598	1214,838	22595,987
29,520	0,223	1253,060	1209,078	22488,854
29,930	0,286	1259,522	1203,318	22381,722
30,340	0,341	1265,984	1197,559	22274,590
30,750	0,388	1272,445	1191,799	22167,458
31,160	0,426	1278,907	1186,039	22060,326
31,570	0,456	1285,369	1180,279	21953,194
31,980	0,477	1291,831	1174,519	21846,062
32,390	0,490	1298,293	1168,760	21738,929

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
32,800	0,494	1304,755	1163,000	21631,797
33,210	0,490	1311,216	1157,240	21524,665
33,620	0,477	1317,678	1151,480	21417,533
34,030	0,456	1324,140	1145,720	21310,401
34,440	0,426	1330,602	1139,961	21203,269
34,850	0,388	1337,064	1134,201	21096,137
35,260	0,341	1343,526	1128,441	20989,005
35,670	0,286	1349,987	1122,681	20881,872
36,080	0,223	1356,449	1116,922	20774,740
36,490	0,151	1362,911	1111,162	20667,608
36,900	0,070	1369,373	1105,402	20560,476
37,356	-0,023	1372,220	1103,146	20518,508
37,811	-0,113	1375,068	1100,889	20476,541
38,267	-0,201	1377,915	1098,633	20434,573
38,722	-0,286	1380,763	1096,377	20392,605
39,178	-0,368	1383,610	1094,120	20350,638
39,633	-0,448	1386,458	1091,864	20308,670
40,089	-0,525	1389,305	1089,608	20266,702
40,544	-0,600	1392,153	1087,351	20224,735
41,000	-0,672	1395,000	1085,095	20182,767
41,492	-0,747	1091,678	1087,751	20232,164
41,984	-0,819	1091,786	1090,406	20281,561
42,476	-0,887	1091,893	1093,062	20330,957
42,968	-0,953	1092,001	1095,718	20380,354
43,460	-1,015	1092,108	1098,374	20429,751
43,952	-1,075	1092,216	1101,029	20479,147
44,444	-1,131	1092,323	1103,685	20528,544
44,936	-1,185	1092,431	1106,341	20577,941
45,428	-1,235	1092,538	1108,997	20627,337
45,920	-1,283	1092,646	1111,652	20676,734
46,412	-1,327	1092,753	1114,308	20726,131
46,904	-1,368	1092,860	1116,964	20775,528
47,396	-1,406	1092,968	1119,620	20824,924
47,888	-1,441	1093,075	1122,275	20874,321
48,380	-1,473	1093,183	1124,931	20923,718
48,872	-1,502	1093,290	1127,587	20973,114
49,364	-1,528	1093,398	1130,243	21022,511

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
49,856	-1,551	1093,505	1132,898	21071,908
50,348	-1,571	1093,613	1135,554	21121,305
50,840	-1,588	1093,720	1138,210	21170,701
51,332	-1,602	1093,828	1140,865	21220,098
51,824	-1,612	1093,935	1143,521	21269,495
52,316	-1,620	1094,042	1146,177	21318,891
52,808	-1,624	1094,150	1148,833	21368,288
53,300	-1,626	1151,488	1151,488	21417,685
53,797	-1,624	1154,175	1153,583	21456,637
54,294	-1,620	1156,861	1155,677	21495,590
54,791	-1,612	1159,547	1157,771	21534,542
55,288	-1,601	1162,234	1159,865	21573,495
55,785	-1,587	1164,920	1161,960	21612,447
56,282	-1,570	1167,606	1164,054	21651,400
56,779	-1,550	1170,293	1166,148	21690,353
57,276	-1,526	1172,979	1168,242	21729,305
57,773	-1,500	1175,665	1170,336	21768,258
58,270	-1,470	1178,351	1172,431	21807,210
58,767	-1,438	1181,038	1174,525	21846,163
59,264	-1,402	1183,724	1176,619	21885,115
59,761	-1,363	1186,410	1178,713	21924,068
60,258	-1,321	1189,097	1180,808	21963,020
60,755	-1,276	1191,783	1182,902	22001,973
61,252	-1,227	1194,469	1184,996	22040,925
61,748	-1,176	1197,155	1187,090	22079,878
62,245	-1,121	1199,842	1189,184	22118,831
62,742	-1,064	1202,528	1191,279	22157,783
63,239	-1,003	1205,214	1193,373	22196,736
63,736	-0,939	1207,901	1195,467	22235,688
64,233	-0,872	1210,587	1197,561	22274,641
64,730	-0,802	1213,273	1199,656	22313,593
65,227	-0,729	1215,960	1201,750	22352,546
65,724	-0,653	1218,646	1203,844	22391,498
66,221	-0,573	1221,332	1205,938	22430,451
66,718	-0,491	1224,018	1208,032	22469,403
67,215	-0,405	1226,705	1210,127	22508,356
67,712	-0,316	1229,391	1212,221	22547,308

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
67,944	-0,274	1230,328	1213,199	22565,499
68,209	-0,224	1232,077	1214,315	22586,261
68,706	-0,129	1234,764	1216,409	22625,214
69,203	-0,031	1237,450	1218,504	22664,166
69,700	0,070	1240,136	1220,598	22703,119
70,110	0,151	1246,598	1214,838	22595,987
70,520	0,223	1253,060	1209,078	22488,854
70,930	0,286	1259,522	1203,318	22381,722
71,340	0,341	1265,984	1197,559	22274,590
71,750	0,388	1272,445	1191,799	22167,458
72,160	0,426	1278,907	1186,039	22060,326
72,570	0,456	1285,369	1180,279	21953,194
72,980	0,477	1291,831	1174,519	21846,062
73,390	0,490	1298,293	1168,760	21738,929
73,800	0,494	1304,755	1163,000	21631,797
74,210	0,490	1311,216	1157,240	21524,665
74,620	0,477	1317,678	1151,480	21417,533
75,030	0,456	1324,140	1145,720	21310,401
75,440	0,426	1330,602	1139,961	21203,269
75,850	0,388	1337,064	1134,201	21096,137
76,260	0,341	1343,526	1128,441	20989,005
76,670	0,286	1349,987	1122,681	20881,872
77,080	0,223	1356,449	1116,922	20774,740
77,490	0,151	1362,911	1111,162	20667,608
77,900	0,070	1369,373	1105,402	20560,476
78,356	-0,023	1372,220	1103,146	20518,508
78,811	-0,113	1375,068	1100,889	20476,541
79,267	-0,201	1377,915	1098,633	20434,573
79,722	-0,286	1380,763	1096,377	20392,605
80,178	-0,368	1383,610	1094,120	20350,638
80,633	-0,448	1386,458	1091,864	20308,670
81,089	-0,525	1389,305	1089,608	20266,702
81,544	-0,600	1392,153	1087,351	20224,735
82,000	-0,672	1395,000	1085,095	20182,767
82,492	-0,747	1091,678	1087,751	20232,164
82,984	-0,819	1091,786	1090,406	20281,561
83,476	-0,887	1091,893	1093,062	20330,957

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
83,968	-0,953	1092,001	1095,718	20380,354
84,460	-1,015	1092,108	1098,374	20429,751
84,952	-1,075	1092,216	1101,029	20479,147
85,444	-1,131	1092,323	1103,685	20528,544
85,936	-1,185	1092,431	1106,341	20577,941
86,428	-1,235	1092,538	1108,997	20627,337
86,920	-1,283	1092,646	1111,652	20676,734
87,412	-1,327	1092,753	1114,308	20726,131
87,904	-1,368	1092,860	1116,964	20775,528
88,396	-1,406	1092,968	1119,620	20824,924
88,888	-1,441	1093,075	1122,275	20874,321
89,380	-1,473	1093,183	1124,931	20923,718
89,872	-1,502	1093,290	1127,587	20973,114
90,364	-1,528	1093,398	1130,243	21022,511
90,856	-1,551	1093,505	1132,898	21071,908
91,348	-1,571	1093,613	1135,554	21121,305
91,840	-1,588	1093,720	1138,210	21170,701
92,332	-1,602	1093,828	1140,865	21220,098
92,824	-1,612	1093,935	1143,521	21269,495
93,316	-1,620	1094,042	1146,177	21318,891
93,808	-1,624	1094,150	1148,833	21368,288
94,300	-1,626	1151,488	1151,488	21417,685
94,797	-1,624	1154,175	1153,583	21456,637
95,294	-1,620	1156,861	1155,677	21495,590
95,791	-1,612	1159,547	1157,771	21534,542
96,288	-1,601	1162,234	1159,865	21573,495
96,785	-1,587	1164,920	1161,960	21612,447
97,282	-1,570	1167,606	1164,054	21651,400
97,779	-1,550	1170,293	1166,148	21690,353
98,276	-1,526	1172,979	1168,242	21729,305
98,773	-1,500	1175,665	1170,336	21768,258
99,270	-1,470	1178,351	1172,431	21807,210
99,767	-1,438	1181,038	1174,525	21846,163
100,264	-1,402	1183,724	1176,619	21885,115
100,761	-1,363	1186,410	1178,713	21924,068
101,258	-1,321	1189,097	1180,808	21963,020
101,755	-1,276	1191,783	1182,902	22001,973

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
102,252	-1,227	1194,469	1184,996	22040,925
102,748	-1,176	1197,155	1187,090	22079,878
103,245	-1,121	1199,842	1189,184	22118,831
103,742	-1,064	1202,528	1191,279	22157,783
104,239	-1,003	1205,214	1193,373	22196,736
104,736	-0,939	1207,901	1195,467	22235,688
105,233	-0,872	1210,587	1197,561	22274,641
105,730	-0,802	1213,273	1199,656	22313,593
106,227	-0,729	1215,960	1201,750	22352,546
106,724	-0,653	1218,646	1203,844	22391,498
107,221	-0,573	1221,332	1205,938	22430,451
107,718	-0,491	1224,018	1208,032	22469,403
108,215	-0,405	1226,705	1210,127	22508,356
108,712	-0,316	1229,391	1212,221	22547,308
108,944	-0,274	1230,328	1213,199	22565,499
109,209	-0,224	1232,077	1214,315	22586,261
109,706	-0,129	1234,764	1216,409	22625,214
110,203	-0,031	1237,450	1218,504	22664,166
110,700	0,070	1240,136	1220,598	22703,119
111,110	0,151	1246,598	1214,838	22595,987
111,520	0,223	1253,060	1209,078	22488,854
111,930	0,286	1259,522	1203,318	22381,722
112,340	0,341	1265,984	1197,559	22274,590
112,750	0,388	1272,445	1191,799	22167,458
113,160	0,426	1278,907	1186,039	22060,326
113,570	0,456	1285,369	1180,279	21953,194
113,980	0,477	1291,831	1174,519	21846,062
114,390	0,490	1298,293	1168,760	21738,929
114,800	0,494	1304,755	1163,000	21631,797
115,210	0,490	1311,216	1157,240	21524,665
115,620	0,477	1317,678	1151,480	21417,533
116,030	0,456	1324,140	1145,720	21310,401
116,440	0,426	1330,602	1139,961	21203,269
116,850	0,388	1337,064	1134,201	21096,137
117,260	0,341	1343,526	1128,441	20989,005
117,670	0,286	1349,987	1122,681	20881,872
118,080	0,223	1356,449	1116,922	20774,740

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
118,490	0,151	1362,911	1111,162	20667,608
118,900	0,070	1369,373	1105,402	20560,476
119,356	-0,023	1372,220	1103,146	20518,508
119,811	-0,113	1375,068	1100,889	20476,541
120,267	-0,201	1377,915	1098,633	20434,573
120,722	-0,286	1380,763	1096,377	20392,605
121,178	-0,368	1383,610	1094,120	20350,638
121,633	-0,448	1386,458	1091,864	20308,670
122,089	-0,525	1389,305	1089,608	20266,702
122,544	-0,600	1392,153	1087,351	20224,735
123,000	-0,672	1395,000	1085,095	20182,767
123,492	-0,747	1091,678	1087,751	20232,164
123,984	-0,819	1091,786	1090,406	20281,561
124,476	-0,887	1091,893	1093,062	20330,957
124,968	-0,953	1092,001	1095,718	20380,354
125,460	-1,015	1092,108	1098,374	20429,751
125,952	-1,075	1092,216	1101,029	20479,147
126,444	-1,131	1092,323	1103,685	20528,544
126,936	-1,185	1092,431	1106,341	20577,941
127,428	-1,235	1092,538	1108,997	20627,337
127,920	-1,283	1092,646	1111,652	20676,734
128,412	-1,327	1092,753	1114,308	20726,131
128,904	-1,368	1092,860	1116,964	20775,528
129,396	-1,406	1092,968	1119,620	20824,924
129,888	-1,441	1093,075	1122,275	20874,321
130,380	-1,473	1093,183	1124,931	20923,718
130,872	-1,502	1093,290	1127,587	20973,114
131,364	-1,528	1093,398	1130,243	21022,511
131,856	-1,551	1093,505	1132,898	21071,908
132,348	-1,571	1093,613	1135,554	21121,305
132,840	-1,588	1093,720	1138,210	21170,701
133,332	-1,602	1093,828	1140,865	21220,098
133,824	-1,612	1093,935	1143,521	21269,495
134,316	-1,620	1094,042	1146,177	21318,891
134,808	-1,624	1094,150	1148,833	21368,288
135,300	-1,626	1151,488	1151,488	21417,685
135,797	-1,624	1154,175	1153,583	21456,637

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
136,294	-1,620	1156,861	1155,677	21495,590
136,791	-1,612	1159,547	1157,771	21534,542
137,288	-1,601	1162,234	1159,865	21573,495
137,785	-1,587	1164,920	1161,960	21612,447
138,282	-1,570	1167,606	1164,054	21651,400
138,779	-1,550	1170,293	1166,148	21690,353
139,276	-1,526	1172,979	1168,242	21729,305
139,773	-1,500	1175,665	1170,336	21768,258
140,270	-1,470	1178,351	1172,431	21807,210
140,767	-1,438	1181,038	1174,525	21846,163
141,264	-1,402	1183,724	1176,619	21885,115
141,761	-1,363	1186,410	1178,713	21924,068
142,258	-1,321	1189,097	1180,808	21963,020
142,755	-1,276	1191,783	1182,902	22001,973
143,252	-1,227	1194,469	1184,996	22040,925
143,748	-1,176	1197,155	1187,090	22079,878
144,245	-1,121	1199,842	1189,184	22118,831
144,742	-1,064	1202,528	1191,279	22157,783
145,239	-1,003	1205,214	1193,373	22196,736
145,736	-0,939	1207,901	1195,467	22235,688
146,233	-0,872	1210,587	1197,561	22274,641
146,730	-0,802	1213,273	1199,656	22313,593
147,227	-0,729	1215,960	1201,750	22352,546
147,724	-0,653	1218,646	1203,844	22391,498
148,221	-0,573	1221,332	1205,938	22430,451
148,718	-0,491	1224,018	1208,032	22469,403
149,215	-0,405	1226,705	1210,127	22508,356
149,712	-0,316	1229,391	1212,221	22547,308
149,944	-0,274	1230,328	1213,199	22565,499
150,209	-0,224	1232,077	1214,315	22586,261
150,706	-0,129	1234,764	1216,409	22625,214
151,203	-0,031	1237,450	1218,504	22664,166
151,700	0,070	1240,136	1220,598	22703,119
152,110	0,151	1246,598	1214,838	22595,987
152,520	0,223	1253,060	1209,078	22488,854
152,930	0,286	1259,522	1203,318	22381,722
153,340	0,341	1265,984	1197,559	22274,590

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
153,750	0,388	1272,445	1191,799	22167,458
154,160	0,426	1278,907	1186,039	22060,326
154,570	0,456	1285,369	1180,279	21953,194
154,980	0,477	1291,831	1174,519	21846,062
155,390	0,490	1298,293	1168,760	21738,929
155,800	0,494	1304,755	1163,000	21631,797
156,210	0,490	1311,216	1157,240	21524,665
156,620	0,477	1317,678	1151,480	21417,533
157,030	0,456	1324,140	1145,720	21310,401
157,440	0,426	1330,602	1139,961	21203,269
157,850	0,388	1337,064	1134,201	21096,137
158,260	0,341	1343,526	1128,441	20989,005
158,670	0,286	1349,987	1122,681	20881,872
159,080	0,223	1356,449	1116,922	20774,740
159,490	0,151	1362,911	1111,162	20667,608
159,900	0,070	1369,373	1105,402	20560,476
160,356	-0,023	1372,220	1103,146	20518,508
160,811	-0,113	1375,068	1100,889	20476,541
161,267	-0,201	1377,915	1098,633	20434,573
161,722	-0,286	1380,763	1096,377	20392,605
162,178	-0,368	1383,610	1094,120	20350,638
162,633	-0,448	1386,458	1091,864	20308,670
163,089	-0,525	1389,305	1089,608	20266,702
163,544	-0,600	1392,153	1087,351	20224,735
164,000	-0,672	1395,000	1085,095	20182,767
164,492	-0,747	1091,678	1087,751	20232,164
164,984	-0,819	1091,786	1090,406	20281,561
165,476	-0,887	1091,893	1093,062	20330,957
165,968	-0,953	1092,001	1095,718	20380,354
166,460	-1,015	1092,108	1098,374	20429,751
166,952	-1,075	1092,216	1101,029	20479,147
167,444	-1,131	1092,323	1103,685	20528,544
167,936	-1,185	1092,431	1106,341	20577,941
168,428	-1,235	1092,538	1108,997	20627,337
168,920	-1,283	1092,646	1111,652	20676,734
169,412	-1,327	1092,753	1114,308	20726,131
169,904	-1,368	1092,860	1116,964	20775,528

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
170,396	-1,406	1092,968	1119,620	20824,924
170,888	-1,441	1093,075	1122,275	20874,321
171,380	-1,473	1093,183	1124,931	20923,718
171,872	-1,502	1093,290	1127,587	20973,114
172,364	-1,528	1093,398	1130,243	21022,511
172,856	-1,551	1093,505	1132,898	21071,908
173,348	-1,571	1093,613	1135,554	21121,305
173,840	-1,588	1093,720	1138,210	21170,701
174,332	-1,602	1093,828	1140,865	21220,098
174,824	-1,612	1093,935	1143,521	21269,495
175,316	-1,620	1094,042	1146,177	21318,891
175,808	-1,624	1094,150	1148,833	21368,288
176,300	-1,626	1151,488	1151,488	21417,685
176,797	-1,624	1154,175	1153,583	21456,637
177,294	-1,620	1156,861	1155,677	21495,590
177,791	-1,612	1159,547	1157,771	21534,542
178,288	-1,601	1162,234	1159,865	21573,495
178,785	-1,587	1164,920	1161,960	21612,447
179,282	-1,570	1167,606	1164,054	21651,400
179,779	-1,550	1170,293	1166,148	21690,353
180,276	-1,526	1172,979	1168,242	21729,305
180,773	-1,500	1175,665	1170,336	21768,258
181,270	-1,470	1178,351	1172,431	21807,210
181,767	-1,438	1181,038	1174,525	21846,163
182,264	-1,402	1183,724	1176,619	21885,115
182,761	-1,363	1186,410	1178,713	21924,068
183,258	-1,321	1189,097	1180,808	21963,020
183,755	-1,276	1191,783	1182,902	22001,973
184,252	-1,227	1194,469	1184,996	22040,925
184,748	-1,176	1197,155	1187,090	22079,878
185,245	-1,121	1199,842	1189,184	22118,831
185,742	-1,064	1202,528	1191,279	22157,783
186,239	-1,003	1205,214	1193,373	22196,736
186,736	-0,939	1207,901	1195,467	22235,688
187,233	-0,872	1210,587	1197,561	22274,641
187,730	-0,802	1213,273	1199,656	22313,593
188,227	-0,729	1215,960	1201,750	22352,546

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
188,724	-0,653	1218,646	1203,844	22391,498
189,221	-0,573	1221,332	1205,938	22430,451
189,718	-0,491	1224,018	1208,032	22469,403
190,215	-0,405	1226,705	1210,127	22508,356
190,712	-0,316	1229,391	1212,221	22547,308
190,944	-0,274	1230,328	1213,199	22565,499
191,209	-0,224	1232,077	1214,315	22586,261
191,706	-0,129	1234,764	1216,409	22625,214
192,203	-0,031	1237,450	1218,504	22664,166
192,700	0,070	1240,136	1220,598	22703,119
193,110	0,151	1246,598	1214,838	22595,987
193,520	0,223	1253,060	1209,078	22488,854
193,930	0,286	1259,522	1203,318	22381,722
194,340	0,341	1265,984	1197,559	22274,590
194,750	0,388	1272,445	1191,799	22167,458
195,160	0,426	1278,907	1186,039	22060,326
195,570	0,456	1285,369	1180,279	21953,194
195,980	0,477	1291,831	1174,519	21846,062
196,390	0,490	1298,293	1168,760	21738,929
196,800	0,494	1304,755	1163,000	21631,797
197,210	0,490	1311,216	1157,240	21524,665
197,620	0,477	1317,678	1151,480	21417,533
198,030	0,456	1324,140	1145,720	21310,401
198,440	0,426	1330,602	1139,961	21203,269
198,850	0,388	1337,064	1134,201	21096,137
199,260	0,341	1343,526	1128,441	20989,005
199,670	0,286	1349,987	1122,681	20881,872
200,080	0,223	1356,449	1116,922	20774,740
200,490	0,151	1362,911	1111,162	20667,608
200,900	0,070	1369,373	1105,402	20560,476
201,356	-0,023	1372,220	1103,146	20518,508
201,811	-0,113	1375,068	1100,889	20476,541
202,267	-0,201	1377,915	1098,633	20434,573
202,722	-0,286	1380,763	1096,377	20392,605
203,178	-0,368	1383,610	1094,120	20350,638
203,633	-0,448	1386,458	1091,864	20308,670
204,089	-0,525	1389,305	1089,608	20266,702

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
204,544	-0,600	1392,153	1087,351	20224,735
205,000	-0,672	1395,000	1085,095	20182,767
205,492	-0,747	1091,678	1087,751	20232,164
205,984	-0,819	1091,786	1090,406	20281,561
206,476	-0,887	1091,893	1093,062	20330,957
206,968	-0,953	1092,001	1095,718	20380,354
207,460	-1,015	1092,108	1098,374	20429,751
207,952	-1,075	1092,216	1101,029	20479,147
208,444	-1,131	1092,323	1103,685	20528,544
208,936	-1,185	1092,431	1106,341	20577,941
209,428	-1,235	1092,538	1108,997	20627,337
209,920	-1,283	1092,646	1111,652	20676,734
210,412	-1,327	1092,753	1114,308	20726,131
210,904	-1,368	1092,860	1116,964	20775,528
211,396	-1,406	1092,968	1119,620	20824,924
211,888	-1,441	1093,075	1122,275	20874,321
212,380	-1,473	1093,183	1124,931	20923,718
212,872	-1,502	1093,290	1127,587	20973,114
213,364	-1,528	1093,398	1130,243	21022,511
213,856	-1,551	1093,505	1132,898	21071,908
214,348	-1,571	1093,613	1135,554	21121,305
214,840	-1,588	1093,720	1138,210	21170,701
215,332	-1,602	1093,828	1140,865	21220,098
215,824	-1,612	1093,935	1143,521	21269,495
216,316	-1,620	1094,042	1146,177	21318,891
216,808	-1,624	1094,150	1148,833	21368,288
217,300	-1,626	1151,488	1151,488	21417,685
217,797	-1,624	1154,175	1153,583	21456,637
218,294	-1,620	1156,861	1155,677	21495,590
218,791	-1,612	1159,547	1157,771	21534,542
219,288	-1,601	1162,234	1159,865	21573,495
219,785	-1,587	1164,920	1161,960	21612,447
220,282	-1,570	1167,606	1164,054	21651,400
220,779	-1,550	1170,293	1166,148	21690,353
221,276	-1,526	1172,979	1168,242	21729,305
221,773	-1,500	1175,665	1170,336	21768,258
222,270	-1,470	1178,351	1172,431	21807,210

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
222,767	-1,438	1181,038	1174,525	21846,163
223,264	-1,402	1183,724	1176,619	21885,115
223,761	-1,363	1186,410	1178,713	21924,068
224,258	-1,321	1189,097	1180,808	21963,020
224,755	-1,276	1191,783	1182,902	22001,973
225,252	-1,227	1194,469	1184,996	22040,925
225,748	-1,176	1197,155	1187,090	22079,878
226,245	-1,121	1199,842	1189,184	22118,831
226,742	-1,064	1202,528	1191,279	22157,783
227,239	-1,003	1205,214	1193,373	22196,736
227,736	-0,939	1207,901	1195,467	22235,688
228,233	-0,872	1210,587	1197,561	22274,641
228,730	-0,802	1213,273	1199,656	22313,593
229,227	-0,729	1215,960	1201,750	22352,546
229,724	-0,653	1218,646	1203,844	22391,498
230,221	-0,573	1221,332	1205,938	22430,451
230,718	-0,491	1224,018	1208,032	22469,403
231,215	-0,405	1226,705	1210,127	22508,356
231,712	-0,316	1229,391	1212,221	22547,308
231,944	-0,274	1230,328	1213,199	22565,499
232,209	-0,224	1232,077	1214,315	22586,261
232,706	-0,129	1234,764	1216,409	22625,214
233,203	-0,031	1237,450	1218,504	22664,166
233,700	0,070	1240,136	1220,598	22703,119
234,110	0,151	1246,598	1214,838	22595,987
234,520	0,223	1253,060	1209,078	22488,854
234,930	0,286	1259,522	1203,318	22381,722
235,340	0,341	1265,984	1197,559	22274,590
235,750	0,388	1272,445	1191,799	22167,458
236,160	0,426	1278,907	1186,039	22060,326
236,570	0,456	1285,369	1180,279	21953,194
236,980	0,477	1291,831	1174,519	21846,062
237,390	0,490	1298,293	1168,760	21738,929
237,800	0,494	1304,755	1163,000	21631,797
238,210	0,490	1311,216	1157,240	21524,665
238,620	0,477	1317,678	1151,480	21417,533
239,030	0,456	1324,140	1145,720	21310,401

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
239,440	0,426	1330,602	1139,961	21203,269
239,850	0,388	1337,064	1134,201	21096,137
240,260	0,341	1343,526	1128,441	20989,005
240,670	0,286	1349,987	1122,681	20881,872
241,080	0,223	1356,449	1116,922	20774,740
241,490	0,151	1362,911	1111,162	20667,608
241,900	0,070	1369,373	1105,402	20560,476
242,356	-0,023	1372,220	1103,146	20518,508
242,811	-0,113	1375,068	1100,889	20476,541
243,267	-0,201	1377,915	1098,633	20434,573
243,722	-0,286	1380,763	1096,377	20392,605
244,178	-0,368	1383,610	1094,120	20350,638
244,633	-0,448	1386,458	1091,864	20308,670
245,089	-0,525	1389,305	1089,608	20266,702
245,544	-0,600	1392,153	1087,351	20224,735
246,000	-0,672	1395,000	1085,095	20182,767
246,492	-0,747	1091,678	1087,751	20232,164
246,984	-0,819	1091,786	1090,406	20281,561
247,476	-0,887	1091,893	1093,062	20330,957
247,968	-0,953	1092,001	1095,718	20380,354
248,460	-1,015	1092,108	1098,374	20429,751
248,952	-1,075	1092,216	1101,029	20479,147
249,444	-1,131	1092,323	1103,685	20528,544
249,936	-1,185	1092,431	1106,341	20577,941
250,428	-1,235	1092,538	1108,997	20627,337
250,920	-1,283	1092,646	1111,652	20676,734
251,412	-1,327	1092,753	1114,308	20726,131
251,904	-1,368	1092,860	1116,964	20775,528
252,396	-1,406	1092,968	1119,620	20824,924
252,888	-1,441	1093,075	1122,275	20874,321
253,380	-1,473	1093,183	1124,931	20923,718
253,872	-1,502	1093,290	1127,587	20973,114
254,364	-1,528	1093,398	1130,243	21022,511
254,856	-1,551	1093,505	1132,898	21071,908
255,348	-1,571	1093,613	1135,554	21121,305
255,840	-1,588	1093,720	1138,210	21170,701
256,332	-1,602	1093,828	1140,865	21220,098

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
256,824	-1,612	1093,935	1143,521	21269,495
257,316	-1,620	1094,042	1146,177	21318,891
257,808	-1,624	1094,150	1148,833	21368,288
258,300	-1,626	1151,488	1151,488	21417,685
258,797	-1,624	1154,175	1153,583	21456,637
259,294	-1,620	1156,861	1155,677	21495,590
259,791	-1,612	1159,547	1157,771	21534,542
260,288	-1,601	1162,234	1159,865	21573,495
260,785	-1,587	1164,920	1161,960	21612,447
261,282	-1,570	1167,606	1164,054	21651,400
261,779	-1,550	1170,293	1166,148	21690,353
262,276	-1,526	1172,979	1168,242	21729,305
262,773	-1,500	1175,665	1170,336	21768,258
263,270	-1,470	1178,351	1172,431	21807,210
263,767	-1,438	1181,038	1174,525	21846,163
264,264	-1,402	1183,724	1176,619	21885,115
264,761	-1,363	1186,410	1178,713	21924,068
265,258	-1,321	1189,097	1180,808	21963,020
265,755	-1,276	1191,783	1182,902	22001,973
266,252	-1,227	1194,469	1184,996	22040,925
266,748	-1,176	1197,155	1187,090	22079,878
267,245	-1,121	1199,842	1189,184	22118,831
267,742	-1,064	1202,528	1191,279	22157,783
268,239	-1,003	1205,214	1193,373	22196,736
268,736	-0,939	1207,901	1195,467	22235,688
269,233	-0,872	1210,587	1197,561	22274,641
269,730	-0,802	1213,273	1199,656	22313,593
270,227	-0,729	1215,960	1201,750	22352,546
270,724	-0,653	1218,646	1203,844	22391,498
271,221	-0,573	1221,332	1205,938	22430,451
271,718	-0,491	1224,018	1208,032	22469,403
272,215	-0,405	1226,705	1210,127	22508,356
272,712	-0,316	1229,391	1212,221	22547,308
272,944	-0,274	1230,328	1213,199	22565,499
273,209	-0,224	1232,077	1214,315	22586,261
273,706	-0,129	1234,764	1216,409	22625,214
274,203	-0,031	1237,450	1218,504	22664,166

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
274,700	0,070	1240,136	1220,598	22703,119
275,110	0,151	1246,598	1214,838	22595,987
275,520	0,223	1253,060	1209,078	22488,854
275,930	0,286	1259,522	1203,318	22381,722
276,340	0,341	1265,984	1197,559	22274,590
276,750	0,388	1272,445	1191,799	22167,458
277,160	0,426	1278,907	1186,039	22060,326
277,570	0,456	1285,369	1180,279	21953,194
277,980	0,477	1291,831	1174,519	21846,062
278,390	0,490	1298,293	1168,760	21738,929
278,800	0,494	1304,755	1163,000	21631,797
279,210	0,490	1311,216	1157,240	21524,665
279,620	0,477	1317,678	1151,480	21417,533
280,030	0,456	1324,140	1145,720	21310,401
280,440	0,426	1330,602	1139,961	21203,269
280,850	0,388	1337,064	1134,201	21096,137
281,260	0,341	1343,526	1128,441	20989,005
281,670	0,286	1349,987	1122,681	20881,872
282,080	0,223	1356,449	1116,922	20774,740
282,490	0,151	1362,911	1111,162	20667,608
282,900	0,070	1369,373	1105,402	20560,476
283,356	-0,023	1372,220	1103,146	20518,508
283,811	-0,113	1375,068	1100,889	20476,541
284,267	-0,201	1377,915	1098,633	20434,573
284,722	-0,286	1380,763	1096,377	20392,605
285,178	-0,368	1383,610	1094,120	20350,638
285,633	-0,448	1386,458	1091,864	20308,670
286,089	-0,525	1389,305	1089,608	20266,702
286,544	-0,600	1392,153	1087,351	20224,735
287,000	-0,672	1395,000	1085,095	20182,767
287,492	-0,747	1225,084	1225,084	22786,556
287,984	-0,819	1229,019	1229,019	22859,746
288,476	-0,887	1232,954	1232,954	22932,936
288,968	-0,953	1236,889	1236,889	23006,127
289,460	-1,015	1240,823	1240,823	23079,317
289,952	-1,075	1244,758	1244,758	23152,507
290,444	-1,131	1248,693	1248,693	23225,697

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
290,936	-1,185	1252,628	1252,628	23298,887
291,428	-1,235	1256,563	1256,563	23372,078
291,920	-1,283	1260,498	1260,498	23445,268
292,412	-1,327	1264,433	1264,433	23518,458
292,904	-1,368	1268,368	1268,368	23591,648
293,396	-1,406	1272,303	1272,303	23664,838
293,888	-1,441	1276,238	1276,238	23738,029
294,380	-1,473	1280,173	1280,173	23811,219
294,872	-1,502	1284,108	1284,108	23884,409
295,364	-1,528	1288,043	1288,043	23957,599
295,856	-1,551	1291,978	1291,978	24030,789
296,348	-1,571	1295,913	1295,913	24103,980
296,840	-1,588	1299,848	1299,848	24177,170
297,332	-1,602	1303,783	1303,783	24250,360
297,824	-1,612	1307,718	1307,718	24323,550
298,316	-1,620	1311,653	1311,653	24396,740
298,808	-1,624	1315,588	1315,588	24469,931
299,300	-1,626	1319,523	1319,523	24543,121
299,620	-1,625	1321,434	1317,857	24578,678
299,782	-1,623	1315,879	1317,012	24496,432
300,265	-1,616	1312,236	1314,502	24449,743
300,747	-1,603	1308,592	1311,992	24403,053
301,229	-1,586	1304,949	1309,482	24356,364
301,712	-1,563	1301,305	1306,972	24309,675
302,194	-1,536	1297,662	1304,462	24262,986
302,676	-1,503	1294,018	1301,951	24216,297
303,159	-1,466	1290,375	1299,441	24169,608
303,641	-1,423	1286,731	1296,931	24122,919
304,124	-1,376	1283,088	1294,421	24076,230
304,606	-1,323	1279,444	1291,911	24029,540
305,088	-1,266	1275,801	1289,401	23982,851
305,571	-1,203	1272,157	1286,890	23936,162
306,053	-1,136	1268,514	1284,380	23889,473
306,535	-1,063	1264,870	1281,870	23842,784
307,018	-0,986	1261,227	1279,360	23796,095
307,500	-0,903	1257,583	1276,850	23749,406
307,910	-0,829	1253,940	1274,340	23702,717

x [m]	e [m]	$\sigma_{p0,a}$ [MPa]	$\sigma_{p0,a+rc}$ [MPa]	$P_{0,a+rc}$ [MPa]
308,320	-0,752	1250,297	1271,829	23656,027
308,730	-0,670	1246,653	1269,319	23609,338
309,140	-0,585	1243,010	1266,809	23562,649
309,550	-0,497	1239,366	1264,299	23515,960
309,960	-0,405	1235,723	1261,789	23469,271
310,370	-0,309	1232,079	1259,279	23422,582
310,780	-0,210	1228,436	1256,768	23375,893
311,190	-0,107	1224,792	1254,258	23329,204
311,600	0,000	1221,149	1251,748	23282,514

Anexo B – Perdas diferidas do pré-esforço

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
0,000	0,000	-1,499	0,573	59,963	20,571	23,343	96,929	968,713	18018,063
0,410	-0,107	-1,577	0,575	59,963	21,634	23,592	98,015	970,806	18057,000
0,820	-0,210	-1,677	0,576	59,963	23,003	23,844	99,290	972,711	18092,421
1,230	-0,309	-1,802	0,578	59,963	24,721	24,098	100,786	974,395	18123,745
1,640	-0,405	-1,956	0,580	59,963	26,831	24,355	102,531	975,829	18150,420
2,050	-0,497	-2,143	0,581	59,963	29,396	24,614	104,571	976,968	18171,606
2,460	-0,585	-2,365	0,583	59,963	32,961	24,876	107,351	977,368	18179,051
2,870	-0,670	-2,626	0,585	59,963	36,605	25,140	110,059	977,839	18187,807
3,280	-0,752	-2,932	0,587	59,963	40,865	25,407	113,132	977,946	18189,788
3,690	-0,829	-3,291	0,588	59,963	45,882	25,676	116,658	977,600	18183,352
4,100	-0,903	-3,704	0,590	59,963	51,631	25,948	120,559	976,878	18169,931
4,582	-0,986	-4,213	0,592	59,963	59,277	26,223	125,537	975,079	18136,475
5,065	-1,063	-4,457	0,593	59,963	62,706	26,501	127,451	976,345	18160,017
5,547	-1,136	-4,702	0,595	59,963	66,156	26,781	129,341	977,635	18184,002
6,029	-1,203	-4,938	0,597	59,963	69,472	27,064	131,090	979,065	18210,611
6,512	-1,266	-5,165	0,599	59,963	72,670	27,349	132,735	980,599	18239,150
6,994	-1,323	-5,397	0,600	59,963	75,926	27,638	134,445	982,069	18266,482
7,476	-1,376	-5,599	0,602	59,963	78,771	27,929	135,840	983,854	18299,681
7,959	-1,423	-5,783	0,604	59,963	81,361	28,223	137,074	985,799	18335,860
8,441	-1,466	-5,956	0,605	59,963	83,801	28,520	138,252	987,801	18373,090
8,924	-1,503	-6,109	0,607	59,963	85,951	28,820	139,274	989,958	18413,220
9,406	-1,536	-6,226	0,609	59,963	87,592	29,123	139,974	992,437	18459,334
9,888	-1,563	-6,318	0,611	59,963	88,881	29,429	140,497	995,094	18508,746
10,371	-1,586	-6,400	0,612	59,963	90,042	29,737	141,036	997,734	18557,860
10,853	-1,603	-6,436	0,614	59,963	90,548	30,049	141,171	1000,779	18614,481
11,335	-1,616	-6,438	0,616	59,963	90,574	30,364	141,053	1004,077	18675,825
11,818	-1,623	-6,424	0,617	59,963	90,379	30,682	140,895	1007,414	18737,907
12,300	-1,626	-6,380	0,619	59,963	89,763	31,003	140,536	1010,952	18803,714
12,797	-1,624	-6,283	0,620	59,963	88,391	31,216	139,611	1013,971	18859,867
13,294	-1,620	-6,183	0,621	59,963	86,992	31,430	138,749	1016,927	18914,851
13,791	-1,612	-6,089	0,622	59,963	85,668	31,646	138,030	1019,741	18967,186
14,288	-1,601	-5,969	0,624	59,963	83,976	31,863	137,094	1022,772	19023,552
14,785	-1,587	-5,837	0,625	59,963	82,119	32,082	136,101	1025,859	19080,973
15,282	-1,570	-5,718	0,626	59,963	80,450	32,302	135,333	1028,721	19134,215

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
15,779	-1,550	-5,585	0,627	59,963	78,570	32,523	134,463	1031,685	19189,343
16,276	-1,526	-5,431	0,628	59,963	76,410	32,746	133,429	1034,813	19247,520
16,773	-1,500	-5,288	0,629	59,963	74,396	32,970	132,574	1037,762	19302,372
17,270	-1,470	-5,145	0,630	59,963	72,380	33,196	131,774	1040,656	19356,209
17,767	-1,438	-4,979	0,631	59,963	70,045	33,423	130,759	1043,766	19414,044
18,264	-1,402	-4,818	0,633	59,963	67,778	33,651	129,844	1046,775	19470,024
18,761	-1,363	-4,665	0,634	59,963	65,628	33,881	129,065	1049,648	19523,459
19,258	-1,321	-4,501	0,635	59,963	63,320	34,113	128,184	1052,624	19578,800
19,755	-1,276	-4,331	0,636	59,963	60,939	34,346	127,265	1055,637	19634,847
20,252	-1,227	-4,179	0,637	59,963	58,789	34,580	126,561	1058,435	19686,885
20,748	-1,176	-4,025	0,638	59,963	56,628	34,816	125,860	1061,230	19738,878
21,245	-1,121	-3,862	0,639	59,963	54,338	35,053	125,050	1064,134	19792,899
21,742	-1,064	-3,718	0,640	59,963	52,315	35,292	124,470	1066,809	19842,648
22,239	-1,003	-3,583	0,642	59,963	50,413	35,533	123,985	1069,388	19890,617
22,736	-0,939	-3,446	0,643	59,963	48,475	35,775	123,449	1072,018	19939,540
23,233	-0,872	-3,323	0,644	59,963	46,758	36,018	123,082	1074,479	19985,314
23,730	-0,802	-3,219	0,645	59,963	45,284	36,263	122,900	1076,755	20027,649
24,227	-0,729	-3,122	0,646	59,963	43,929	36,510	122,782	1078,968	20068,806
24,724	-0,653	-3,040	0,647	59,963	42,774	36,758	122,792	1081,052	20107,574
25,221	-0,573	-2,983	0,648	59,963	41,973	37,008	123,065	1082,873	20141,443
25,718	-0,491	-2,945	0,649	59,963	41,431	37,259	123,504	1084,529	20172,230
26,215	-0,405	-3,396	0,651	59,963	47,778	37,512	130,372	1079,754	20083,433
26,712	-0,316	-3,301	0,652	59,963	46,436	37,766	129,883	1082,338	20131,487
26,944	-0,274	-3,265	0,652	59,963	45,934	37,886	129,728	1083,471	20152,562
27,209	-0,224	-3,230	0,653	59,963	45,448	38,022	129,596	1084,719	20175,777
27,706	-0,129	-3,188	0,654	59,963	44,857	38,280	129,539	1086,870	20215,788
28,203	-0,031	-3,178	0,655	59,963	44,707	38,540	129,740	1088,764	20251,005
28,700	0,070	-3,202	0,656	59,963	45,044	38,801	130,226	1090,372	20280,918
29,110	0,151	-3,099	0,653	59,963	43,196	38,087	127,992	1086,846	20215,327
29,520	0,223	-2,999	0,650	59,963	41,811	37,385	126,104	1082,974	20143,325
29,930	0,286	-2,892	0,647	59,963	40,312	36,695	124,083	1079,236	20073,782
30,340	0,341	-2,769	0,644	59,963	38,600	36,018	121,863	1075,696	20007,946
30,750	0,388	-2,627	0,641	59,963	36,624	35,352	119,414	1072,384	19946,349
31,160	0,426	-2,466	0,638	59,963	33,830	34,697	116,272	1069,767	19897,657
31,570	0,456	-2,286	0,635	59,963	31,366	34,054	113,434	1066,845	19843,315
31,980	0,477	-2,092	0,631	59,963	28,698	33,422	110,445	1064,075	19791,788
32,390	0,490	-1,887	0,628	59,963	25,893	32,801	107,366	1061,394	19741,926

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
32,800	0,494	-1,679	0,625	59,963	23,035	32,191	104,273	1058,726	19692,312
33,210	0,490	-1,864	0,622	59,963	25,576	31,591	106,134	1051,106	19550,563
33,620	0,477	-2,045	0,619	59,963	28,052	31,002	107,973	1043,507	19409,226
34,030	0,456	-2,215	0,616	59,963	30,383	30,423	109,715	1036,005	19269,696
34,440	0,426	-2,368	0,613	59,963	32,483	29,854	111,278	1028,683	19133,506
34,850	0,388	-2,503	0,610	59,963	34,332	29,295	112,640	1021,561	19001,037
35,260	0,341	-2,617	0,607	59,963	36,486	28,745	114,274	1014,167	18863,507
35,670	0,286	-2,712	0,604	59,963	37,810	28,205	115,186	1007,495	18739,406
36,080	0,223	-2,790	0,600	59,963	38,886	27,675	115,864	1001,058	18619,673
36,490	0,151	-2,854	0,597	59,963	39,779	27,154	116,342	994,819	18503,639
36,900	0,070	-2,912	0,594	59,963	40,975	26,642	117,020	988,382	18383,910
37,356	-0,023	-2,871	0,593	59,963	40,386	26,444	116,341	986,805	18354,572
37,811	-0,113	-2,838	0,592	59,963	39,928	26,247	115,650	985,239	18325,450
38,267	-0,201	-2,815	0,591	59,963	39,599	26,051	114,959	983,674	18296,336
38,722	-0,286	-2,803	0,589	59,963	39,434	25,857	114,316	982,061	18266,332
39,178	-0,368	-2,800	0,588	59,963	39,393	25,665	113,694	980,427	18235,935
39,633	-0,448	-2,305	0,587	59,963	32,427	25,473	106,451	985,413	18328,687
40,089	-0,525	-2,227	0,586	59,963	31,328	25,283	104,715	984,893	18319,006
40,544	-0,600	-2,150	0,585	59,963	30,245	25,094	102,949	984,402	18309,874
41,000	-0,672	-2,078	0,583	59,963	29,235	24,907	101,221	983,874	18300,058
41,492	-0,747	-2,033	0,585	59,963	28,596	25,128	100,056	987,695	18371,120
41,984	-0,819	-1,988	0,586	59,963	27,963	25,350	98,873	991,533	18442,519
42,476	-0,887	-1,944	0,588	59,963	27,351	25,575	97,696	995,366	18513,811
42,968	-0,953	-1,916	0,589	59,963	26,955	25,801	96,710	999,008	18581,543
43,460	-1,015	-1,896	0,591	59,963	26,670	26,029	95,825	1002,549	18647,406
43,952	-1,075	-1,873	0,592	59,963	26,345	26,259	94,912	1006,117	18713,779
44,444	-1,131	-1,860	0,593	59,963	26,172	26,491	94,148	1009,537	18777,389
44,936	-1,185	-1,865	0,595	59,963	26,234	26,725	93,608	1012,733	18836,841
45,428	-1,235	-1,859	0,596	59,963	26,160	26,960	92,971	1016,026	18898,080
45,920	-1,283	-1,858	0,598	59,963	26,139	27,198	92,407	1019,246	18957,973
46,412	-1,327	-1,879	0,599	59,963	26,434	27,437	92,142	1022,166	19012,293
46,904	-1,368	-1,894	0,601	59,963	26,643	27,679	91,836	1025,128	19067,387
47,396	-1,406	-1,904	0,602	59,963	26,792	27,922	91,515	1028,105	19122,751
47,888	-1,441	-1,931	0,603	59,963	27,166	28,168	91,421	1030,855	19173,899
48,380	-1,473	-1,963	0,605	59,963	27,618	28,415	91,430	1033,501	19223,114
48,872	-1,502	-1,982	0,606	59,963	27,879	28,665	91,324	1036,263	19274,494
49,364	-1,528	-2,008	0,608	59,963	28,256	28,916	91,358	1038,884	19323,251

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
49,856	-1,551	-2,051	0,609	59,963	28,850	29,170	91,616	1041,282	19367,849
50,348	-1,571	-2,077	0,611	59,963	29,219	29,425	91,737	1043,817	19414,995
50,840	-1,588	-2,099	0,612	59,963	29,530	29,683	91,862	1046,348	19462,064
51,332	-1,602	-2,143	0,613	59,963	30,150	29,943	92,288	1048,578	19503,542
51,824	-1,612	-2,178	0,615	59,963	30,637	30,204	92,659	1050,862	19546,031
52,316	-1,620	-2,198	0,616	59,963	30,930	30,468	92,928	1053,249	19590,432
52,808	-1,624	-2,233	0,618	59,963	31,413	30,734	93,406	1055,427	19630,942
53,300	-1,626	-2,273	0,619	59,963	31,975	31,003	94,003	1057,485	19669,225
53,797	-1,624	-2,283	0,620	59,963	32,121	31,216	94,287	1059,296	19702,904
54,294	-1,620	-2,299	0,621	59,963	32,346	31,430	94,692	1060,984	19734,310
54,791	-1,612	-2,327	0,622	59,963	32,742	31,646	95,296	1062,475	19762,041
55,288	-1,601	-2,339	0,624	59,963	32,907	31,863	95,771	1064,094	19792,151
55,785	-1,587	-2,341	0,625	59,963	32,938	32,082	96,198	1065,762	19823,170
56,282	-1,570	-2,362	0,626	59,963	33,228	32,302	96,893	1067,161	19849,187
56,779	-1,550	-2,374	0,627	59,963	33,396	32,523	97,549	1068,599	19875,939
57,276	-1,526	-2,368	0,628	59,963	33,311	32,746	98,056	1070,187	19905,472
57,773	-1,500	-2,375	0,629	59,963	33,417	32,970	98,775	1071,561	19931,043
58,270	-1,470	-2,385	0,630	59,963	33,558	33,196	99,580	1072,851	19955,024
58,767	-1,438	-2,375	0,631	59,963	33,417	33,423	100,204	1074,321	19982,367
59,264	-1,402	-2,371	0,633	59,963	33,354	33,651	100,944	1075,675	20007,564
59,761	-1,363	-2,375	0,634	59,963	33,419	33,881	101,840	1076,873	20029,841
60,258	-1,321	-2,369	0,635	59,963	33,324	34,113	102,648	1078,160	20053,768
60,755	-1,276	-2,356	0,636	59,963	33,151	34,346	103,431	1079,471	20078,159
61,252	-1,227	-2,359	0,637	59,963	33,193	34,580	104,436	1080,560	20098,415
61,748	-1,176	-2,359	0,638	59,963	33,189	34,816	105,437	1081,653	20118,745
62,245	-1,121	-2,348	0,639	59,963	33,032	35,053	106,333	1082,852	20141,042
62,742	-1,064	-2,353	0,640	59,963	33,099	35,292	107,447	1083,831	20159,264
63,239	-1,003	-2,362	0,642	59,963	33,234	35,533	108,640	1084,733	20176,036
63,736	-0,939	-2,364	0,643	59,963	33,261	35,775	109,745	1085,722	20194,430
64,233	-0,872	-2,378	0,644	59,963	33,449	36,018	110,996	1086,565	20210,109
64,730	-0,802	-2,403	0,645	59,963	33,802	36,263	112,389	1087,266	20223,154
65,227	-0,729	-2,429	0,646	59,963	34,168	36,510	113,778	1087,972	20236,283
65,724	-0,653	-2,461	0,647	59,963	34,628	36,758	115,222	1088,622	20248,362
66,221	-0,573	-2,512	0,648	59,963	35,341	37,008	116,860	1089,078	20256,849
66,718	-0,491	-2,573	0,649	59,963	36,194	37,259	118,574	1089,458	20263,918
67,215	-0,405	-3,097	0,651	59,963	43,569	37,512	126,388	1083,738	20157,531
67,712	-0,316	-3,083	0,652	59,963	43,378	37,766	126,975	1085,246	20185,567

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
67,944	-0,274	-3,083	0,652	59,963	43,380	37,886	127,295	1085,904	20197,812
68,209	-0,224	-3,088	0,653	59,963	43,441	38,022	127,681	1086,634	20211,393
68,706	-0,129	-3,113	0,654	59,963	43,796	38,280	128,524	1087,886	20234,675
69,203	-0,031	-3,162	0,655	59,963	44,483	38,540	129,525	1088,978	20254,997
69,700	0,070	-3,232	0,656	59,963	45,476	38,801	130,639	1089,959	20273,236
70,110	0,151	-3,154	0,653	59,963	43,970	38,087	128,734	1086,104	20201,532
70,520	0,223	-3,068	0,650	59,963	42,768	37,385	127,021	1082,057	20126,267
70,930	0,286	-2,965	0,647	59,963	41,327	36,695	125,054	1078,264	20055,712
71,340	0,341	-2,839	0,644	59,963	39,578	36,018	122,798	1074,761	19990,547
71,750	0,388	-2,690	0,641	59,963	37,496	35,352	120,248	1071,551	19930,841
72,160	0,426	-2,517	0,638	59,963	34,537	34,697	116,949	1069,090	19885,076
72,570	0,456	-2,325	0,635	59,963	31,892	34,054	113,938	1066,341	19833,941
72,980	0,477	-2,116	0,631	59,963	29,029	33,422	110,762	1063,757	19785,889
73,390	0,490	-1,897	0,628	59,963	26,026	32,801	107,493	1061,266	19739,554
73,800	0,494	-1,675	0,625	59,963	22,977	32,191	104,218	1058,782	19693,345
74,210	0,490	-1,859	0,622	59,963	25,499	31,591	106,061	1051,179	19551,936
74,620	0,477	-2,037	0,619	59,963	27,951	31,002	107,877	1043,604	19411,029
75,030	0,456	-2,206	0,616	59,963	30,261	30,423	109,599	1036,122	19271,868
75,440	0,426	-2,359	0,613	59,963	32,368	29,854	111,168	1028,793	19135,551
75,850	0,388	-2,495	0,610	59,963	34,227	29,295	112,539	1021,662	19002,915
76,260	0,341	-2,611	0,607	59,963	36,391	28,745	114,183	1014,258	18865,201
76,670	0,286	-2,707	0,604	59,963	37,729	28,205	115,109	1007,572	18740,842
77,080	0,223	-2,785	0,600	59,963	38,822	27,675	115,803	1001,118	18620,804
77,490	0,151	-2,851	0,597	59,963	39,736	27,154	116,301	994,861	18504,414
77,900	0,070	-2,911	0,594	59,963	40,954	26,642	117,000	988,402	18384,279
78,356	-0,023	-2,871	0,593	59,963	40,392	26,444	116,347	986,799	18354,455
78,811	-0,113	-2,840	0,592	59,963	39,960	26,247	115,680	985,209	18324,891
79,267	-0,201	-2,820	0,591	59,963	39,675	26,051	115,032	983,601	18294,973
79,722	-0,286	-2,810	0,589	59,963	39,540	25,857	114,417	981,960	18264,453
80,178	-0,368	-2,809	0,588	59,963	39,526	25,665	113,820	980,301	18233,592
80,633	-0,448	-2,335	0,587	59,963	32,857	25,473	106,857	985,007	18321,136
81,089	-0,525	-2,262	0,586	59,963	31,818	25,283	105,175	984,433	18310,445
81,544	-0,600	-2,189	0,585	59,963	30,792	25,094	103,460	983,891	18300,380
82,000	-0,672	-2,121	0,583	59,963	29,833	24,907	101,776	983,319	18289,742
82,492	-0,747	-2,079	0,585	59,963	29,245	25,128	100,654	987,097	18360,002
82,984	-0,819	-2,035	0,586	59,963	28,630	25,350	99,482	990,924	18431,194
83,476	-0,887	-1,994	0,588	59,963	28,057	25,575	98,337	994,726	18501,897

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
83,968	-0,953	-1,969	0,589	59,963	27,697	25,801	97,377	998,340	18569,133
84,460	-1,015	-1,950	0,591	59,963	27,440	26,029	96,512	1001,862	18634,626
84,952	-1,075	-1,929	0,592	59,963	27,141	26,259	95,617	1005,413	18700,676
85,444	-1,131	-1,918	0,593	59,963	26,990	26,491	94,866	1008,819	18764,040
85,936	-1,185	-1,924	0,595	59,963	27,069	26,725	94,335	1012,006	18823,318
86,428	-1,235	-1,920	0,596	59,963	27,008	26,960	93,702	1015,294	18884,475
86,920	-1,283	-1,919	0,598	59,963	26,996	27,198	93,140	1018,512	18944,324
87,412	-1,327	-1,940	0,599	59,963	27,296	27,437	92,875	1021,433	18998,656
87,904	-1,368	-1,955	0,601	59,963	27,506	27,679	92,564	1024,399	19053,828
88,396	-1,406	-1,966	0,602	59,963	27,653	27,922	92,237	1027,382	19109,307
88,888	-1,441	-1,992	0,603	59,963	28,023	28,168	92,135	1030,141	19160,614
89,380	-1,473	-2,023	0,605	59,963	28,467	28,415	92,134	1032,797	19210,029
89,872	-1,502	-2,041	0,606	59,963	28,717	28,665	92,014	1035,572	19261,647
90,364	-1,528	-2,067	0,608	59,963	29,080	28,916	92,034	1038,208	19310,677
90,856	-1,551	-2,108	0,609	59,963	29,658	29,170	92,276	1040,623	19355,579
91,348	-1,571	-2,133	0,611	59,963	30,008	29,425	92,379	1043,175	19403,050
91,840	-1,588	-2,154	0,612	59,963	30,298	29,683	92,485	1045,725	19450,478
92,332	-1,602	-2,196	0,613	59,963	30,894	29,943	92,890	1047,975	19492,340
92,824	-1,612	-2,229	0,615	59,963	31,357	30,204	93,241	1050,281	19535,218
93,316	-1,620	-2,248	0,616	59,963	31,622	30,468	93,486	1052,691	19580,044
93,808	-1,624	-2,280	0,618	59,963	32,077	30,734	93,940	1054,892	19620,997
94,300	-1,626	-2,318	0,619	59,963	32,610	31,003	94,514	1056,974	19659,718
94,797	-1,624	-2,326	0,620	59,963	32,723	31,216	94,772	1058,811	19693,884
95,294	-1,620	-2,340	0,621	59,963	32,914	31,430	95,151	1060,526	19725,790
95,791	-1,612	-2,365	0,622	59,963	33,276	31,646	95,726	1062,045	19754,030
96,288	-1,601	-2,374	0,624	59,963	33,406	31,863	96,175	1063,690	19784,635
96,785	-1,587	-2,374	0,625	59,963	33,401	32,082	96,574	1065,386	19816,179
97,282	-1,570	-2,392	0,626	59,963	33,654	32,302	97,240	1066,813	19842,727
97,779	-1,550	-2,402	0,627	59,963	33,787	32,523	97,869	1068,279	19869,990
98,276	-1,526	-2,393	0,628	59,963	33,666	32,746	98,347	1069,896	19900,059
98,773	-1,500	-2,398	0,629	59,963	33,735	32,970	99,037	1071,299	19926,165
99,270	-1,470	-2,405	0,630	59,963	33,840	33,196	99,814	1072,617	19950,679
99,767	-1,438	-2,393	0,631	59,963	33,665	33,423	100,410	1074,115	19978,530
100,264	-1,402	-2,386	0,633	59,963	33,566	33,651	101,122	1075,497	20004,248
100,761	-1,363	-2,388	0,634	59,963	33,597	33,881	101,991	1076,722	20027,037
101,258	-1,321	-2,379	0,635	59,963	33,470	34,113	102,773	1078,035	20051,449
101,755	-1,276	-2,365	0,636	59,963	33,266	34,346	103,529	1079,372	20076,326

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
102,252	-1,227	-2,365	0,637	59,963	33,278	34,580	104,510	1080,486	20097,048
102,748	-1,176	-2,363	0,638	59,963	33,247	34,816	105,487	1081,603	20117,814
103,245	-1,121	-2,350	0,639	59,963	33,063	35,053	106,360	1082,824	20140,531
103,742	-1,064	-2,353	0,640	59,963	33,106	35,292	107,454	1083,825	20159,145
104,239	-1,003	-2,361	0,642	59,963	33,219	35,533	108,627	1084,746	20176,275
104,736	-0,939	-2,362	0,643	59,963	33,227	35,775	109,715	1085,752	20194,986
105,233	-0,872	-2,374	0,644	59,963	33,400	36,018	110,951	1086,610	20210,944
105,730	-0,802	-2,398	0,645	59,963	33,739	36,263	112,332	1087,324	20224,219
106,227	-0,729	-2,423	0,646	59,963	34,093	36,510	113,708	1088,042	20237,579
106,724	-0,653	-2,454	0,647	59,963	34,531	36,758	115,132	1088,712	20250,051
107,221	-0,573	-2,504	0,648	59,963	35,229	37,008	116,755	1089,183	20258,803
107,718	-0,491	-2,564	0,649	59,963	36,075	37,259	118,463	1089,570	20266,000
108,215	-0,405	-3,096	0,651	59,963	43,558	37,512	126,379	1083,748	20157,712
108,712	-0,316	-3,083	0,652	59,963	43,375	37,766	126,973	1085,248	20185,620
108,944	-0,274	-3,083	0,652	59,963	43,379	37,886	127,294	1085,904	20197,822
109,209	-0,224	-3,088	0,653	59,963	43,443	38,022	127,682	1086,633	20211,367
109,706	-0,129	-3,113	0,654	59,963	43,800	38,280	128,528	1087,881	20234,589
110,203	-0,031	-3,162	0,655	59,963	44,485	38,540	129,527	1088,977	20254,966
110,700	0,070	-3,232	0,656	59,963	45,471	38,801	130,634	1089,964	20273,327
111,110	0,151	-3,153	0,653	59,963	43,958	38,087	128,722	1086,115	20201,748
111,520	0,223	-3,067	0,650	59,963	42,748	37,385	127,002	1082,076	20126,618
111,930	0,286	-2,963	0,647	59,963	41,299	36,695	125,028	1078,290	20056,200
112,340	0,341	-2,837	0,644	59,963	39,543	36,018	122,765	1074,794	19991,168
112,750	0,388	-2,687	0,641	59,963	37,454	35,352	120,208	1071,591	19931,589
113,160	0,426	-2,514	0,638	59,963	34,489	34,697	116,903	1069,136	19885,928
113,570	0,456	-2,321	0,635	59,963	31,839	34,054	113,887	1066,392	19834,894
113,980	0,477	-2,112	0,631	59,963	28,971	33,422	110,706	1063,813	19786,928
114,390	0,490	-1,893	0,628	59,963	25,964	32,801	107,434	1061,326	19740,663
114,800	0,494	-1,670	0,625	59,963	22,912	32,191	104,156	1058,844	19694,502
115,210	0,490	-1,853	0,622	59,963	25,427	31,591	105,992	1051,248	19553,213
115,620	0,477	-2,032	0,619	59,963	27,878	31,002	107,807	1043,673	19412,317
116,030	0,456	-2,201	0,616	59,963	30,189	30,423	109,530	1036,191	19273,144
116,440	0,426	-2,354	0,613	59,963	32,298	29,854	111,101	1028,860	19136,791
116,850	0,388	-2,490	0,610	59,963	34,160	29,295	112,476	1021,725	19004,092
117,260	0,341	-2,606	0,607	59,963	36,329	28,745	114,124	1014,317	18866,299
117,670	0,286	-2,703	0,604	59,963	37,675	28,205	115,057	1007,624	18741,806
118,080	0,223	-2,782	0,600	59,963	38,778	27,675	115,761	1001,161	18621,590

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
118,490	0,151	-2,848	0,597	59,963	39,704	27,154	116,271	994,891	18504,973
118,900	0,070	-2,910	0,594	59,963	40,938	26,642	116,985	988,417	18384,556
119,356	-0,023	-2,871	0,593	59,963	40,397	26,444	116,352	986,794	18354,365
119,811	-0,113	-2,842	0,592	59,963	39,985	26,247	115,704	985,185	18324,445
120,267	-0,201	-2,823	0,591	59,963	39,721	26,051	115,076	983,557	18294,157
120,722	-0,286	-2,815	0,589	59,963	39,605	25,857	114,479	981,898	18263,296
121,178	-0,368	-2,815	0,588	59,963	39,610	25,665	113,899	980,221	18232,111
121,633	-0,448	-2,313	0,587	59,963	32,534	25,473	106,552	985,312	18326,797
122,089	-0,525	-2,235	0,586	59,963	31,449	25,283	104,828	984,779	18316,896
122,544	-0,600	-2,159	0,585	59,963	30,380	25,094	103,076	984,276	18307,530
123,000	-0,672	-2,089	0,583	59,963	29,383	24,907	101,358	983,737	18297,505
123,492	-0,747	-2,044	0,585	59,963	28,757	25,128	100,204	987,546	18368,363
123,984	-0,819	-1,998	0,586	59,963	28,110	25,350	99,007	991,399	18440,027
124,476	-0,887	-1,955	0,588	59,963	27,511	25,575	97,841	995,221	18511,112
124,968	-0,953	-1,928	0,589	59,963	27,128	25,801	96,866	998,852	18578,647
125,460	-1,015	-1,909	0,591	59,963	26,853	26,029	95,988	1002,385	18644,366
125,952	-1,075	-1,886	0,592	59,963	26,540	26,259	95,085	1005,944	18710,566
126,444	-1,131	-1,875	0,593	59,963	26,379	26,491	94,330	1009,356	18774,014
126,936	-1,185	-1,880	0,595	59,963	26,452	26,725	93,797	1012,544	18833,315
127,428	-1,235	-1,876	0,596	59,963	26,387	26,960	93,166	1015,830	18894,441
127,920	-1,283	-1,875	0,598	59,963	26,376	27,198	92,609	1019,043	18954,205
128,412	-1,327	-1,896	0,599	59,963	26,680	27,437	92,351	1021,957	19008,405
128,904	-1,368	-1,912	0,601	59,963	26,896	27,679	92,050	1024,914	19063,404
129,396	-1,406	-1,923	0,602	59,963	27,053	27,922	91,734	1027,885	19118,669
129,888	-1,441	-1,950	0,603	59,963	27,435	28,168	91,645	1030,630	19169,725
130,380	-1,473	-1,983	0,605	59,963	27,894	28,415	91,659	1033,272	19218,859
130,872	-1,502	-2,002	0,606	59,963	28,161	28,665	91,556	1036,030	19270,167
131,364	-1,528	-2,029	0,608	59,963	28,544	28,916	91,594	1038,648	19318,860
131,856	-1,551	-2,071	0,609	59,963	29,143	29,170	91,855	1041,043	19363,403
132,348	-1,571	-2,098	0,611	59,963	29,516	29,425	91,979	1043,575	19410,493
132,840	-1,588	-2,120	0,612	59,963	29,831	29,683	92,106	1046,103	19457,523
133,332	-1,602	-2,165	0,613	59,963	30,453	29,943	92,534	1048,332	19498,970
133,824	-1,612	-2,199	0,615	59,963	30,944	30,204	92,907	1050,614	19541,418
134,316	-1,620	-2,220	0,616	59,963	31,238	30,468	93,177	1053,000	19585,805
134,808	-1,624	-2,255	0,618	59,963	31,722	30,734	93,655	1055,178	19626,309
135,300	-1,626	-2,295	0,619	59,963	32,286	31,003	94,253	1057,235	19664,571
135,797	-1,624	-2,305	0,620	59,963	32,430	31,216	94,536	1059,047	19698,270

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
136,294	-1,620	-2,321	0,621	59,963	32,653	31,430	94,940	1060,737	19729,704
136,791	-1,612	-2,349	0,622	59,963	33,047	31,646	95,542	1062,230	19757,469
137,288	-1,601	-2,360	0,624	59,963	33,209	31,863	96,016	1063,849	19787,597
137,785	-1,587	-2,362	0,625	59,963	33,236	32,082	96,440	1065,520	19818,667
138,282	-1,570	-2,383	0,626	59,963	33,521	32,302	97,132	1066,922	19844,743
138,779	-1,550	-2,394	0,627	59,963	33,686	32,523	97,786	1068,362	19871,538
139,276	-1,526	-2,388	0,628	59,963	33,594	32,746	98,288	1069,954	19901,146
139,773	-1,500	-2,395	0,629	59,963	33,693	32,970	99,003	1071,333	19926,801
140,270	-1,470	-2,404	0,630	59,963	33,827	33,196	99,803	1072,628	19950,873
140,767	-1,438	-2,394	0,631	59,963	33,680	33,423	100,423	1074,102	19978,296
141,264	-1,402	-2,389	0,633	59,963	33,608	33,651	101,157	1075,462	20003,601
141,761	-1,363	-2,393	0,634	59,963	33,663	33,881	102,047	1076,666	20025,996
142,258	-1,321	-2,385	0,635	59,963	33,560	34,113	102,849	1077,959	20050,034
142,755	-1,276	-2,372	0,636	59,963	33,377	34,346	103,624	1079,278	20074,562
143,252	-1,227	-2,375	0,637	59,963	33,407	34,580	104,622	1080,374	20094,962
143,748	-1,176	-2,374	0,638	59,963	33,393	34,816	105,615	1081,475	20115,436
144,245	-1,121	-2,362	0,639	59,963	33,225	35,053	106,502	1082,683	20137,897
144,742	-1,064	-2,365	0,640	59,963	33,279	35,292	107,607	1083,672	20156,292
145,239	-1,003	-2,374	0,642	59,963	33,402	35,533	108,790	1084,583	20173,245
145,736	-0,939	-2,375	0,643	59,963	33,416	35,775	109,885	1085,582	20191,826
146,233	-0,872	-2,388	0,644	59,963	33,591	36,018	111,126	1086,436	20207,706
146,730	-0,802	-2,412	0,645	59,963	33,930	36,263	112,507	1087,148	20220,958
147,227	-0,729	-2,437	0,646	59,963	34,280	36,510	113,880	1087,869	20234,371
147,724	-0,653	-2,467	0,647	59,963	34,706	36,758	115,294	1088,550	20247,024
148,221	-0,573	-2,515	0,648	59,963	35,389	37,008	116,906	1089,033	20256,008
148,718	-0,491	-2,574	0,649	59,963	36,219	37,259	118,597	1089,435	20263,491
149,215	-0,405	-3,102	0,651	59,963	43,647	37,512	126,463	1083,664	20156,153
149,712	-0,316	-3,088	0,652	59,963	43,446	37,766	127,040	1085,181	20184,361
149,944	-0,274	-3,088	0,652	59,963	43,442	37,886	127,354	1085,845	20196,716
150,209	-0,224	-3,092	0,653	59,963	43,495	38,022	127,732	1086,583	20210,445
150,706	-0,129	-3,115	0,654	59,963	43,831	38,280	128,558	1087,852	20234,039
151,203	-0,031	-3,162	0,655	59,963	44,492	38,540	129,534	1088,969	20254,830
151,700	0,070	-3,231	0,656	59,963	45,453	38,801	130,617	1089,981	20273,641
152,110	0,151	-3,151	0,653	59,963	43,922	38,087	128,688	1086,150	20202,395
152,520	0,223	-3,063	0,650	59,963	42,696	37,385	126,952	1082,126	20127,545
152,930	0,286	-2,958	0,647	59,963	41,235	36,695	124,966	1078,352	20057,355
153,340	0,341	-2,831	0,644	59,963	39,468	36,018	122,693	1074,866	19992,506

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
153,750	0,388	-2,681	0,641	59,963	37,371	35,352	120,128	1071,670	19933,070
154,160	0,426	-2,508	0,638	59,963	34,401	34,697	116,819	1069,220	19887,489
154,570	0,456	-2,314	0,635	59,963	31,747	34,054	113,799	1066,480	19836,526
154,980	0,477	-2,105	0,631	59,963	28,877	33,422	110,616	1063,903	19788,599
155,390	0,490	-1,886	0,628	59,963	25,870	32,801	107,343	1061,416	19742,344
155,800	0,494	-1,663	0,625	59,963	22,819	32,191	104,066	1058,934	19696,167
156,210	0,490	-1,847	0,622	59,963	25,335	31,591	105,904	1051,336	19554,856
156,620	0,477	-2,026	0,619	59,963	27,789	31,002	107,722	1043,758	19413,904
157,030	0,456	-2,194	0,616	59,963	30,105	30,423	109,449	1036,271	19274,647
157,440	0,426	-2,349	0,613	59,963	32,220	29,854	111,026	1028,935	19138,183
157,850	0,388	-2,485	0,610	59,963	34,090	29,295	112,408	1021,793	19005,346
158,260	0,341	-2,602	0,607	59,963	36,267	28,745	114,064	1014,377	18867,408
158,670	0,286	-2,699	0,604	59,963	37,623	28,205	115,008	1007,673	18742,725
159,080	0,223	-2,779	0,600	59,963	38,739	27,675	115,723	1001,199	18622,295
159,490	0,151	-2,846	0,597	59,963	39,678	27,154	116,245	994,916	18505,443
159,900	0,070	-2,909	0,594	59,963	40,926	26,642	116,973	988,429	18384,772
160,356	-0,023	-2,872	0,593	59,963	40,401	26,444	116,355	986,790	18354,300
160,811	-0,113	-2,843	0,592	59,963	40,001	26,247	115,720	985,170	18324,154
161,267	-0,201	-2,825	0,591	59,963	39,748	26,051	115,101	983,532	18293,690
161,722	-0,286	-2,817	0,589	59,963	39,639	25,857	114,511	981,866	18262,706
162,178	-0,368	-2,818	0,588	59,963	39,647	25,665	113,935	980,185	18231,447
162,633	-0,448	-2,317	0,587	59,963	32,604	25,473	106,618	985,246	18325,574
163,089	-0,525	-2,240	0,586	59,963	31,520	25,283	104,895	984,712	18315,651
163,544	-0,600	-2,164	0,585	59,963	30,449	25,094	103,140	984,211	18306,323
164,000	-0,672	-2,093	0,583	59,963	29,448	24,907	101,418	983,677	18296,391
164,492	-0,747	-2,048	0,585	59,963	28,813	25,128	100,256	987,495	18367,408
164,984	-0,819	-2,001	0,586	59,963	28,155	25,350	99,049	991,358	18439,258
165,476	-0,887	-1,958	0,588	59,963	27,542	25,575	97,870	995,192	18510,575
165,968	-0,953	-1,929	0,589	59,963	27,144	25,801	96,880	998,838	18578,385
166,460	-1,015	-1,908	0,591	59,963	26,850	26,029	95,986	1002,388	18644,416
166,952	-1,075	-1,885	0,592	59,963	26,516	26,259	95,064	1005,966	18710,963
167,444	-1,131	-1,872	0,593	59,963	26,331	26,491	94,288	1009,397	18774,788
167,936	-1,185	-1,875	0,595	59,963	26,379	26,725	93,734	1012,607	18834,491
168,428	-1,235	-1,868	0,596	59,963	26,287	26,960	93,080	1015,916	18896,044
168,920	-1,283	-1,866	0,598	59,963	26,247	27,198	92,499	1019,153	18956,255
169,412	-1,327	-1,885	0,599	59,963	26,521	27,437	92,216	1022,092	19010,919
169,904	-1,368	-1,898	0,601	59,963	26,706	27,679	91,889	1025,075	19066,396

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
170,396	-1,406	-1,907	0,602	59,963	26,830	27,922	91,547	1028,073	19122,151
170,888	-1,441	-1,932	0,603	59,963	27,178	28,168	91,431	1030,845	19173,709
171,380	-1,473	-1,962	0,605	59,963	27,603	28,415	91,418	1033,513	19223,350
171,872	-1,502	-1,978	0,606	59,963	27,835	28,665	91,287	1036,300	19275,171
172,364	-1,528	-2,003	0,608	59,963	28,182	28,916	91,297	1038,945	19324,382
172,856	-1,551	-2,043	0,609	59,963	28,745	29,170	91,530	1041,368	19369,444
173,348	-1,571	-2,067	0,611	59,963	29,083	29,425	91,626	1043,928	19417,052
173,840	-1,588	-2,087	0,612	59,963	29,362	29,683	91,726	1046,484	19464,599
174,332	-1,602	-2,129	0,613	59,963	29,949	29,943	92,126	1048,740	19506,560
174,824	-1,612	-2,161	0,615	59,963	30,405	30,204	92,472	1051,049	19549,517
175,316	-1,620	-2,180	0,616	59,963	30,665	30,468	92,714	1053,463	19594,405
175,808	-1,624	-2,212	0,618	59,963	31,115	30,734	93,166	1055,667	19635,402
176,300	-1,626	-2,249	0,619	59,963	31,646	31,003	93,739	1057,750	19674,147
176,797	-1,624	-2,257	0,620	59,963	31,760	31,216	93,996	1059,587	19708,321
177,294	-1,620	-2,271	0,621	59,963	31,952	31,430	94,375	1061,302	19740,216
177,791	-1,612	-2,297	0,622	59,963	32,317	31,646	94,953	1062,819	19768,425
178,288	-1,601	-2,307	0,624	59,963	32,453	31,863	95,404	1064,461	19798,979
178,785	-1,587	-2,307	0,625	59,963	32,455	32,082	95,806	1066,153	19830,454
179,282	-1,570	-2,326	0,626	59,963	32,717	32,302	96,478	1067,576	19856,911
179,779	-1,550	-2,336	0,627	59,963	32,862	32,523	97,112	1069,036	19884,062
180,276	-1,526	-2,328	0,628	59,963	32,753	32,746	97,597	1070,645	19913,998
180,773	-1,500	-2,334	0,629	59,963	32,836	32,970	98,296	1072,040	19939,947
181,270	-1,470	-2,343	0,630	59,963	32,958	33,196	99,082	1073,348	19964,281
181,767	-1,438	-2,331	0,631	59,963	32,801	33,423	99,690	1074,835	19991,925
182,264	-1,402	-2,326	0,633	59,963	32,723	33,651	100,414	1076,205	20017,410
182,761	-1,363	-2,330	0,634	59,963	32,777	33,881	101,297	1077,416	20039,937
183,258	-1,321	-2,322	0,635	59,963	32,674	34,113	102,095	1078,713	20064,058
183,755	-1,276	-2,310	0,636	59,963	32,496	34,346	102,869	1080,033	20088,612
184,252	-1,227	-2,313	0,637	59,963	32,536	34,580	103,868	1081,128	20108,978
184,748	-1,176	-2,313	0,638	59,963	32,535	34,816	104,867	1082,223	20129,352
185,245	-1,121	-2,302	0,639	59,963	32,384	35,053	105,763	1083,422	20151,641
185,742	-1,064	-2,307	0,640	59,963	32,460	35,292	106,882	1084,397	20169,787
186,239	-1,003	-2,318	0,642	59,963	32,609	35,533	108,082	1085,291	20186,408
186,736	-0,939	-2,321	0,643	59,963	32,656	35,775	109,200	1086,267	20204,566
187,233	-0,872	-2,336	0,644	59,963	32,868	36,018	110,468	1087,093	20219,928
187,730	-0,802	-2,363	0,645	59,963	33,249	36,263	111,883	1087,772	20232,560
188,227	-0,729	-2,391	0,646	59,963	33,645	36,510	113,295	1088,454	20245,252

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
188,724	-0,653	-2,425	0,647	59,963	34,124	36,758	114,753	1089,091	20257,084
189,221	-0,573	-2,478	0,648	59,963	34,866	37,008	116,416	1089,523	20265,122
189,718	-0,491	-2,542	0,649	59,963	35,760	37,259	118,165	1089,867	20271,528
190,215	-0,405	-3,077	0,651	59,963	43,288	37,512	126,123	1084,004	20162,475
190,712	-0,316	-3,068	0,652	59,963	43,160	37,766	126,769	1085,452	20189,410
190,944	-0,274	-3,070	0,652	59,963	43,193	37,886	127,117	1086,082	20201,130
191,209	-0,224	-3,077	0,653	59,963	43,289	38,022	127,535	1086,780	20214,103
191,706	-0,129	-3,107	0,654	59,963	43,711	38,280	128,442	1087,967	20236,189
192,203	-0,031	-3,160	0,655	59,963	44,463	38,540	129,506	1088,998	20255,358
192,700	0,070	-3,236	0,656	59,963	45,521	38,801	130,682	1089,916	20272,436
193,110	0,151	-3,161	0,653	59,963	44,060	38,087	128,820	1086,018	20199,933
193,520	0,223	-3,077	0,650	59,963	42,893	37,385	127,140	1081,938	20124,046
193,930	0,286	-2,976	0,647	59,963	41,478	36,695	125,199	1078,119	20053,023
194,340	0,341	-2,851	0,644	59,963	39,748	36,018	122,961	1074,598	19987,520
194,750	0,388	-2,703	0,641	59,963	37,679	35,352	120,423	1071,376	19927,588
195,160	0,426	-2,531	0,638	59,963	34,724	34,697	117,128	1068,911	19881,744
195,570	0,456	-2,339	0,635	59,963	32,082	34,054	114,120	1066,159	19830,559
195,980	0,477	-2,130	0,631	59,963	29,218	33,422	110,943	1063,577	19782,525
196,390	0,490	-1,911	0,628	59,963	26,211	32,801	107,670	1061,090	19736,268
196,800	0,494	-1,688	0,625	59,963	23,154	32,191	104,387	1058,612	19690,192
197,210	0,490	-1,871	0,622	59,963	25,663	31,591	106,218	1051,022	19549,015
197,620	0,477	-2,049	0,619	59,963	28,104	31,002	108,023	1043,457	19408,297
198,030	0,456	-2,216	0,616	59,963	30,401	30,423	109,733	1035,988	19269,373
198,440	0,426	-2,368	0,613	59,963	32,492	29,854	111,287	1028,674	19133,335
198,850	0,388	-2,503	0,610	59,963	34,334	29,295	112,641	1021,560	19001,012
199,260	0,341	-2,617	0,607	59,963	36,480	28,745	114,268	1014,173	18863,613
199,670	0,286	-2,712	0,604	59,963	37,798	28,205	115,175	1007,506	18739,613
200,080	0,223	-2,788	0,600	59,963	38,871	27,675	115,850	1001,072	18619,936
200,490	0,151	-2,853	0,597	59,963	39,765	27,154	116,329	994,833	18503,893
200,900	0,070	-2,912	0,594	59,963	40,966	26,642	117,011	988,391	18384,070
201,356	-0,023	-2,871	0,593	59,963	40,390	26,444	116,344	986,801	18354,506
201,811	-0,113	-2,840	0,592	59,963	39,950	26,247	115,671	985,218	18325,055
202,267	-0,201	-2,820	0,591	59,963	39,670	26,051	115,027	983,606	18295,075
202,722	-0,286	-2,811	0,589	59,963	39,544	25,857	114,421	981,956	18264,379
203,178	-0,368	-2,811	0,588	59,963	39,547	25,665	113,840	980,281	18233,219
203,633	-0,448	-2,308	0,587	59,963	32,471	25,473	106,492	985,372	18327,914
204,089	-0,525	-2,232	0,586	59,963	31,397	25,283	104,780	984,828	18317,803

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
204,544	-0,600	-2,157	0,585	59,963	30,346	25,094	103,044	984,307	18308,112
205,000	-0,672	-2,088	0,583	59,963	29,375	24,907	101,350	983,745	18297,655
205,492	-0,747	-2,046	0,585	59,963	28,783	25,128	100,228	987,523	18367,929
205,984	-0,819	-2,003	0,586	59,963	28,183	25,350	99,074	991,332	18438,784
206,476	-0,887	-1,965	0,588	59,963	27,639	25,575	97,958	995,105	18508,945
206,968	-0,953	-1,942	0,589	59,963	27,319	25,801	97,038	998,680	18575,455
207,460	-1,015	-1,927	0,591	59,963	27,113	26,029	96,220	1002,154	18640,057
207,952	-1,075	-1,910	0,592	59,963	26,875	26,259	95,381	1005,648	18705,060
208,444	-1,131	-1,904	0,593	59,963	26,794	26,491	94,694	1008,991	18767,241
208,936	-1,185	-1,916	0,595	59,963	26,952	26,725	94,233	1012,108	18825,213
209,428	-1,235	-1,918	0,596	59,963	26,978	26,960	93,676	1015,320	18884,958
209,920	-1,283	-1,923	0,598	59,963	27,060	27,198	93,196	1018,457	18943,297
210,412	-1,327	-1,952	0,599	59,963	27,462	27,437	93,016	1021,292	18996,035
210,904	-1,368	-1,974	0,601	59,963	27,779	27,679	92,795	1024,169	19049,542
211,396	-1,406	-1,993	0,602	59,963	28,039	27,922	92,561	1027,059	19103,293
211,888	-1,441	-2,028	0,603	59,963	28,526	28,168	92,554	1029,721	19152,819
212,380	-1,473	-2,068	0,605	59,963	29,091	28,415	92,651	1032,280	19200,410
212,872	-1,502	-2,094	0,606	59,963	29,465	28,665	92,631	1034,955	19250,170
213,364	-1,528	-2,129	0,608	59,963	29,956	28,916	92,752	1037,490	19297,315
213,856	-1,551	-2,179	0,609	59,963	30,663	29,170	93,096	1039,802	19340,314
214,348	-1,571	-2,214	0,611	59,963	31,143	29,425	93,303	1042,251	19385,868
214,840	-1,588	-2,244	0,612	59,963	31,564	29,683	93,512	1044,698	19431,377
215,332	-1,602	-2,295	0,613	59,963	32,291	29,943	94,020	1046,845	19471,322
215,824	-1,612	-2,337	0,615	59,963	32,884	30,204	94,473	1049,048	19512,289
216,316	-1,620	-2,365	0,616	59,963	33,278	30,468	94,821	1051,356	19555,223
216,808	-1,624	-2,407	0,618	59,963	33,858	30,734	95,375	1053,457	19594,307
217,300	-1,626	-2,453	0,619	59,963	34,515	31,003	96,048	1055,440	19631,185
217,797	-1,624	-2,470	0,620	59,963	34,749	31,216	96,404	1057,179	19663,531
218,294	-1,620	-2,492	0,621	59,963	35,057	31,430	96,878	1058,799	19693,662
218,791	-1,612	-2,525	0,622	59,963	35,530	31,646	97,546	1060,225	19720,178
219,288	-1,601	-2,542	0,624	59,963	35,766	31,863	98,085	1061,780	19749,117
219,785	-1,587	-2,549	0,625	59,963	35,860	32,082	98,569	1063,391	19779,066
220,282	-1,570	-2,573	0,626	59,963	36,206	32,302	99,317	1064,736	19804,097
220,779	-1,550	-2,589	0,627	59,963	36,423	32,523	100,023	1066,125	19829,928
221,276	-1,526	-2,586	0,628	59,963	36,377	32,746	100,572	1067,670	19858,664
221,773	-1,500	-2,595	0,629	59,963	36,513	32,970	101,329	1069,008	19883,547
222,270	-1,470	-2,607	0,630	59,963	36,674	33,196	102,164	1070,267	19906,958

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
222,767	-1,438	-2,598	0,631	59,963	36,545	33,423	102,813	1071,712	19933,840
223,264	-1,402	-2,593	0,633	59,963	36,481	33,651	103,569	1073,050	19958,737
223,761	-1,363	-2,597	0,634	59,963	36,534	33,881	104,473	1074,240	19980,867
224,258	-1,321	-2,588	0,635	59,963	36,417	34,113	105,281	1075,527	20004,800
224,755	-1,276	-2,574	0,636	59,963	36,208	34,346	106,053	1076,849	20029,393
225,252	-1,227	-2,573	0,637	59,963	36,201	34,580	107,037	1077,959	20050,045
225,748	-1,176	-2,569	0,638	59,963	36,137	34,816	108,006	1079,085	20070,975
226,245	-1,121	-2,552	0,639	59,963	35,904	35,053	108,856	1080,328	20094,109
226,742	-1,064	-2,550	0,640	59,963	35,882	35,292	109,912	1081,366	20113,413
227,239	-1,003	-2,553	0,642	59,963	35,912	35,533	111,033	1082,340	20131,530
227,736	-0,939	-2,546	0,643	59,963	35,820	35,775	112,050	1083,417	20151,550
228,233	-0,872	-2,550	0,644	59,963	35,874	36,018	113,198	1084,363	20169,157
228,730	-0,802	-2,564	0,645	59,963	36,075	36,263	114,470	1085,185	20184,446
229,227	-0,729	-2,578	0,646	59,963	36,267	36,510	115,714	1086,036	20200,268
229,724	-0,653	-2,596	0,647	59,963	36,521	36,758	116,981	1086,863	20215,655
230,221	-0,573	-2,631	0,648	59,963	37,015	37,008	118,426	1087,512	20227,728
230,718	-0,491	-2,675	0,649	59,963	37,636	37,259	119,932	1088,101	20238,670
231,215	-0,405	-3,162	0,651	59,963	44,480	37,512	127,251	1082,875	20141,481
231,712	-0,316	-3,135	0,652	59,963	44,110	37,766	127,671	1084,550	20172,621
231,944	-0,274	-3,129	0,652	59,963	44,022	37,886	127,906	1085,293	20186,443
232,209	-0,224	-3,126	0,653	59,963	43,975	38,022	128,190	1086,125	20201,923
232,706	-0,129	-3,136	0,654	59,963	44,115	38,280	128,829	1087,581	20228,999
233,203	-0,031	-3,167	0,655	59,963	44,562	38,540	129,601	1088,903	20253,590
233,700	0,070	-3,219	0,656	59,963	45,294	38,801	130,464	1090,133	20276,479
234,110	0,151	-3,127	0,653	59,963	43,596	38,087	128,376	1086,462	20208,199
234,520	0,223	-3,030	0,650	59,963	42,233	37,385	126,508	1082,570	20135,801
234,930	0,286	-2,917	0,647	59,963	40,660	36,695	124,416	1078,903	20067,591
235,340	0,341	-2,784	0,644	59,963	38,805	36,018	122,059	1075,500	20004,302
235,750	0,388	-2,629	0,641	59,963	36,641	35,352	119,430	1072,368	19946,051
236,160	0,426	-2,452	0,638	59,963	33,636	34,697	116,087	1069,952	19901,109
236,570	0,456	-2,256	0,635	59,963	30,951	34,054	113,038	1067,241	19850,687
236,980	0,477	-2,046	0,631	59,963	28,066	33,422	109,840	1064,679	19803,031
237,390	0,490	-1,827	0,628	59,963	25,058	32,801	106,566	1062,193	19756,797
237,800	0,494	-1,605	0,625	59,963	22,015	32,191	103,295	1059,704	19710,503
238,210	0,490	-1,789	0,622	59,963	24,547	31,591	105,149	1052,091	19568,888
238,620	0,477	-1,970	0,619	59,963	27,032	31,002	106,997	1044,483	19427,387
239,030	0,456	-2,142	0,616	59,963	29,391	30,423	108,766	1036,954	19287,348

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
239,440	0,426	-2,301	0,613	59,963	31,563	29,854	110,397	1029,563	19149,875
239,850	0,388	-2,442	0,610	59,963	33,502	29,295	111,845	1022,356	19015,815
240,260	0,341	-2,565	0,607	59,963	35,751	28,745	113,570	1014,871	18876,593
240,670	0,286	-2,669	0,604	59,963	37,199	28,205	114,602	1008,079	18750,272
241,080	0,223	-2,756	0,600	59,963	38,416	27,675	115,414	1001,507	18628,033
241,490	0,151	-2,831	0,597	59,963	39,466	27,154	116,042	995,119	18509,223
241,900	0,070	-2,902	0,594	59,963	40,830	26,642	116,881	988,521	18386,492
242,356	-0,023	-2,874	0,593	59,963	40,429	26,444	116,382	986,763	18353,794
242,811	-0,113	-2,852	0,592	59,963	40,126	26,247	115,840	985,050	18321,924
243,267	-0,201	-2,839	0,591	59,963	39,946	26,051	115,290	983,343	18290,174
243,722	-0,286	-2,835	0,589	59,963	39,881	25,857	114,741	981,635	18258,416
244,178	-0,368	-2,837	0,588	59,963	39,908	25,665	114,183	979,938	18226,838
244,633	-0,448	-2,340	0,587	59,963	32,927	25,473	106,923	984,941	18319,900
245,089	-0,525	-2,260	0,586	59,963	31,799	25,283	105,157	984,451	18310,781
245,544	-0,600	-2,179	0,585	59,963	30,654	25,094	103,331	984,020	18302,772
246,000	-0,672	-2,100	0,583	59,963	29,549	24,907	101,512	983,583	18294,642
246,492	-0,747	-2,045	0,585	59,963	28,774	25,128	100,220	987,531	18368,073
246,984	-0,819	-1,988	0,586	59,963	27,970	25,350	98,880	991,527	18442,398
247,476	-0,887	-1,932	0,588	59,963	27,188	25,575	97,549	995,513	18516,550
247,968	-0,953	-1,891	0,589	59,963	26,597	25,801	96,389	999,329	18587,520
248,460	-1,015	-1,855	0,591	59,963	26,092	26,029	95,309	1003,064	18656,995
248,952	-1,075	-1,814	0,592	59,963	25,526	26,259	94,188	1006,841	18727,245
249,444	-1,131	-1,784	0,593	59,963	25,093	26,491	93,201	1010,484	18794,997
249,936	-1,185	-1,768	0,595	59,963	24,876	26,725	92,426	1013,915	18858,822
250,428	-1,235	-1,742	0,596	59,963	24,506	26,960	91,542	1017,454	18924,652
250,920	-1,283	-1,718	0,598	59,963	24,174	27,198	90,723	1020,930	18989,290
251,412	-1,327	-1,716	0,599	59,963	24,145	27,437	90,195	1024,113	19048,500
251,904	-1,368	-1,707	0,601	59,963	24,019	27,679	89,620	1027,344	19108,601
252,396	-1,406	-1,693	0,602	59,963	23,823	27,922	89,024	1030,595	19169,070
252,888	-1,441	-1,695	0,603	59,963	23,845	28,168	88,652	1033,623	19225,396
253,380	-1,473	-1,702	0,605	59,963	23,940	28,415	88,381	1036,550	19279,823
253,872	-1,502	-1,694	0,606	59,963	23,837	28,665	87,992	1039,595	19336,469
254,364	-1,528	-1,695	0,608	59,963	23,849	28,916	87,742	1042,500	19390,509
254,856	-1,551	-1,711	0,609	59,963	24,077	29,170	87,716	1045,182	19440,387
255,348	-1,571	-1,712	0,611	59,963	24,081	29,425	87,556	1047,998	19492,762
255,840	-1,588	-1,708	0,612	59,963	24,030	29,683	87,400	1050,810	19545,057
256,332	-1,602	-1,727	0,613	59,963	24,291	29,943	87,548	1053,318	19591,712

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
256,824	-1,612	-1,736	0,615	59,963	24,428	30,204	87,647	1055,875	19639,268
257,316	-1,620	-1,733	0,616	59,963	24,377	30,468	87,645	1058,532	19688,695
257,808	-1,624	-1,743	0,618	59,963	24,525	30,734	87,858	1060,975	19734,132
258,300	-1,626	-1,760	0,619	59,963	24,766	31,003	88,198	1063,290	19777,201
258,797	-1,624	-1,749	0,620	59,963	24,600	31,216	88,229	1065,354	19815,585
259,294	-1,620	-1,743	0,621	59,963	24,527	31,430	88,389	1067,288	19851,560
259,791	-1,612	-1,752	0,622	59,963	24,643	31,646	88,756	1069,015	19883,682
260,288	-1,601	-1,745	0,624	59,963	24,549	31,863	89,008	1070,857	19917,941
260,785	-1,587	-1,730	0,625	59,963	24,339	32,082	89,221	1072,738	19952,929
261,282	-1,570	-1,735	0,626	59,963	24,411	32,302	89,717	1074,337	19982,668
261,779	-1,550	-1,734	0,627	59,963	24,389	32,523	90,189	1075,959	20012,833
262,276	-1,526	-1,716	0,628	59,963	24,138	32,746	90,527	1077,716	20045,511
262,773	-1,500	-1,713	0,629	59,963	24,106	32,970	91,095	1079,242	20073,892
263,270	-1,470	-1,716	0,630	59,963	24,139	33,196	91,769	1080,662	20100,315
263,767	-1,438	-1,700	0,631	59,963	23,924	33,423	92,284	1082,241	20129,675
264,264	-1,402	-1,693	0,633	59,963	23,818	33,651	92,938	1083,681	20156,464
264,761	-1,363	-1,697	0,634	59,963	23,877	33,881	93,775	1084,938	20179,847
265,258	-1,321	-1,693	0,635	59,963	23,814	34,113	94,552	1086,255	20204,347
265,755	-1,276	-1,685	0,636	59,963	23,713	34,346	95,335	1087,566	20228,733
266,252	-1,227	-1,696	0,637	59,963	23,867	34,580	96,375	1088,621	20248,350
266,748	-1,176	-1,707	0,638	59,963	24,019	34,816	97,446	1089,644	20267,374
267,245	-1,121	-1,710	0,639	59,963	24,063	35,053	98,453	1090,731	20287,602
267,742	-1,064	-1,733	0,640	59,963	24,378	35,292	99,722	1091,557	20302,951
268,239	-1,003	-1,764	0,642	59,963	24,811	35,533	101,116	1092,257	20315,983
268,736	-0,939	-1,790	0,643	59,963	25,184	35,775	102,470	1092,997	20329,743
269,233	-0,872	-1,832	0,644	59,963	25,774	36,018	104,026	1093,535	20339,757
269,730	-0,802	-1,889	0,645	59,963	26,582	36,263	105,780	1093,875	20346,077
270,227	-0,729	-1,949	0,646	59,963	27,426	36,510	107,558	1094,192	20351,969
270,724	-0,653	-2,021	0,647	59,963	28,438	36,758	109,470	1094,374	20355,355
271,221	-0,573	-2,116	0,648	59,963	29,769	37,008	111,647	1094,291	20353,812
271,718	-0,491	-2,225	0,649	59,963	31,306	37,259	113,973	1094,059	20349,503
272,215	-0,405	-2,350	0,651	59,963	33,063	37,512	116,445	1093,682	20342,477
272,712	-0,316	-2,502	0,652	59,963	35,203	37,766	119,203	1093,018	20330,135
272,944	-0,274	-2,719	0,652	59,963	38,247	37,886	122,406	1090,792	20288,740
273,209	-0,224	-2,918	0,653	59,963	41,052	38,022	125,402	1088,914	20253,792
273,706	-0,129	-3,015	0,654	59,963	42,413	38,280	127,201	1089,208	20259,269
274,203	-0,031	-3,138	0,655	59,963	44,144	38,540	129,201	1089,303	20261,031

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
274,700	0,070	-3,287	0,656	59,963	46,250	38,801	131,380	1089,218	20259,458
275,110	0,151	-3,268	0,653	59,963	45,549	38,087	130,246	1084,592	20173,404
275,520	0,223	-3,229	0,650	59,963	45,011	37,385	129,169	1079,909	20086,312
275,930	0,286	-3,164	0,647	59,963	44,104	36,695	127,713	1075,605	20006,260
276,340	0,341	-3,069	0,644	59,963	42,775	36,018	125,857	1071,702	19933,651
276,750	0,388	-2,942	0,641	59,963	41,011	35,352	123,610	1068,189	19868,320
277,160	0,426	-2,786	0,638	59,963	38,218	34,697	120,470	1065,569	19819,578
277,570	0,456	-2,603	0,635	59,963	35,714	34,054	117,594	1062,685	19765,942
277,980	0,477	-2,397	0,631	59,963	32,891	33,422	114,458	1060,062	19717,151
278,390	0,490	-2,176	0,628	59,963	29,858	32,801	111,163	1057,597	19671,296
278,800	0,494	-1,948	0,625	59,963	26,718	32,191	107,804	1055,196	19626,638
279,210	0,490	-2,121	0,622	59,963	29,094	31,591	109,504	1047,736	19487,883
279,620	0,477	-2,285	0,619	59,963	31,341	31,002	111,122	1040,359	19350,669
280,030	0,456	-2,434	0,616	59,963	33,388	30,423	112,590	1033,131	19216,234
280,440	0,426	-2,564	0,613	59,963	35,177	29,854	113,855	1026,106	19085,565
280,850	0,388	-2,673	0,610	59,963	36,673	29,295	114,880	1019,321	18959,375
281,260	0,341	-2,760	0,607	59,963	38,471	28,745	116,173	1012,268	18828,188
281,670	0,286	-2,825	0,604	59,963	39,376	28,205	116,685	1005,996	18711,525
282,080	0,223	-2,871	0,600	59,963	40,020	27,675	116,951	999,971	18599,461
282,490	0,151	-2,904	0,597	59,963	40,485	27,154	117,018	994,143	18491,067
282,900	0,070	-2,934	0,594	59,963	41,273	26,642	117,305	988,097	18378,604
283,356	-0,023	-2,865	0,593	59,963	40,313	26,444	116,271	986,875	18355,872
283,811	-0,113	-2,821	0,592	59,963	39,686	26,247	115,418	985,471	18329,761
284,267	-0,201	-2,798	0,591	59,963	39,365	26,051	114,736	983,897	18300,491
284,722	-0,286	-2,795	0,589	59,963	39,323	25,857	114,210	982,167	18268,298
285,178	-0,368	-2,382	0,588	59,963	33,519	25,665	108,123	985,997	18339,547
285,633	-0,448	-2,321	0,587	59,963	32,651	25,473	106,662	985,201	18324,748
286,089	-0,525	-2,278	0,586	59,963	32,052	25,283	105,394	984,213	18306,367
286,544	-0,600	-2,247	0,585	59,963	31,609	25,094	104,223	983,128	18286,187
287,000	-0,672	-2,229	0,583	59,963	31,364	24,907	103,196	981,899	18263,328
287,492	-0,747	-2,766	0,659	59,963	38,916	39,365	120,047	1105,037	20553,687
287,984	-0,819	-2,862	0,661	59,963	40,267	39,867	120,727	1108,291	20614,221
288,476	-0,887	-2,978	0,663	59,963	41,893	40,374	121,612	1111,342	20670,961
288,968	-0,953	-3,123	0,665	59,963	43,933	40,888	122,828	1114,060	20721,517
289,460	-1,015	-3,287	0,667	59,963	46,247	41,408	124,254	1116,569	20768,184
289,952	-1,075	-3,461	0,669	59,963	48,692	41,934	125,768	1118,991	20813,224
290,444	-1,131	-3,656	0,671	59,963	51,429	42,466	127,515	1121,178	20853,919

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
290,936	-1,185	-3,875	0,673	59,963	54,520	43,005	129,553	1123,075	20889,196
291,428	-1,235	-4,092	0,676	59,963	57,568	43,550	131,542	1125,021	20925,388
291,920	-1,283	-4,319	0,678	59,963	60,759	44,101	133,651	1126,847	20959,352
292,412	-1,327	-4,572	0,680	59,963	64,330	44,659	136,087	1128,347	20987,248
292,904	-1,368	-4,823	0,682	59,963	67,858	45,224	138,494	1129,875	21015,666
293,396	-1,406	-5,072	0,684	59,963	71,355	45,795	140,892	1131,411	21044,252
293,888	-1,441	-5,337	0,686	59,963	75,085	46,373	143,510	1132,728	21068,745
294,380	-1,473	-5,608	0,688	59,963	78,895	46,958	146,225	1133,948	21091,432
294,872	-1,502	-5,862	0,690	59,963	82,477	47,550	148,791	1135,317	21116,899
295,364	-1,528	-6,122	0,692	59,963	86,130	48,149	151,464	1136,579	21140,367
295,856	-1,551	-6,393	0,695	59,963	89,939	48,755	154,320	1137,658	21160,445
296,348	-1,571	-6,644	0,697	59,963	93,474	49,368	157,014	1138,899	21183,515
296,840	-1,588	-6,882	0,699	59,963	96,829	49,988	159,634	1140,214	21207,982
297,332	-1,602	-7,135	0,701	59,963	100,380	50,616	162,491	1141,292	21228,035
297,824	-1,612	-7,373	0,703	59,963	103,725	51,251	165,265	1142,453	21249,619
298,316	-1,620	-7,583	0,705	59,963	106,685	51,893	167,820	1143,833	21275,289
298,808	-1,624	-7,796	0,707	59,963	109,678	52,544	170,500	1145,088	21298,629
299,300	-1,626	-8,002	0,709	59,963	112,581	53,201	173,210	1146,312	21321,408
299,620	-1,625	-8,083	0,709	59,963	113,720	52,922	173,985	1143,872	21276,013
299,782	-1,623	-8,080	0,708	59,963	113,674	52,781	173,904	1143,108	21261,810
300,265	-1,616	-8,118	0,707	59,963	114,205	52,363	174,319	1140,184	21207,418
300,747	-1,603	-8,130	0,705	59,963	114,374	51,949	174,610	1137,382	21155,299
301,229	-1,586	-8,097	0,704	59,963	113,916	51,538	174,564	1134,918	21109,483
301,712	-1,563	-8,008	0,703	59,963	112,659	51,130	174,026	1132,946	21072,787
302,194	-1,536	-7,899	0,701	59,963	111,131	50,725	173,417	1131,045	21037,434
302,676	-1,503	-7,755	0,700	59,963	109,110	50,323	172,541	1129,410	21007,031
303,159	-1,466	-7,566	0,699	59,963	106,444	49,924	171,255	1128,186	20984,265
303,641	-1,423	-7,347	0,697	59,963	103,359	49,527	169,725	1127,206	20966,038
304,124	-1,376	-7,108	0,696	59,963	100,003	49,134	168,052	1126,369	20950,470
304,606	-1,323	-6,844	0,695	59,963	96,282	48,744	166,135	1125,776	20939,437
305,088	-1,266	-6,543	0,693	59,963	92,052	48,357	163,823	1125,578	20935,752
305,571	-1,203	-6,240	0,692	59,963	87,795	47,972	161,501	1125,389	20932,236
306,053	-1,136	-5,925	0,691	59,963	83,352	47,591	159,010	1125,371	20931,892
306,535	-1,063	-5,596	0,689	59,963	78,724	47,212	156,320	1125,550	20935,238
307,018	-0,986	-5,266	0,688	59,963	74,087	46,836	153,560	1125,800	20939,881
307,500	-0,903	-4,944	0,686	59,963	69,552	46,463	150,805	1126,045	20944,429
307,910	-0,829	-4,324	0,685	59,963	60,271	46,093	144,363	1129,976	21017,562

x [m]	e [m]	σ_c [MPa]	μ	$\Delta\sigma_{pt,s}$ [MPa]	$\Delta\sigma_{pt,c}$ [MPa]	$\Delta\sigma_{pt,r}$ [MPa]	$\Delta\sigma_{pt,s+c+r}$ [MPa]	σp_∞ [MPa]	P_∞ [kN]
308,320	-0,752	-3,793	0,684	59,963	52,873	45,726	139,072	1132,757	21069,282
308,730	-0,670	-3,346	0,682	59,963	46,649	45,361	134,483	1134,837	21107,960
309,140	-0,585	-2,969	0,681	59,963	41,382	44,999	130,472	1136,337	21135,870
309,550	-0,497	-2,651	0,680	59,963	36,956	44,640	126,991	1137,308	21153,936
309,960	-0,405	-2,386	0,678	59,963	32,737	44,283	123,522	1138,267	21171,763
310,370	-0,309	-2,170	0,677	59,963	29,774	43,929	121,011	1138,268	21171,779
310,780	-0,210	-1,997	0,676	59,963	27,396	43,578	118,897	1137,871	21164,407
311,190	-0,107	-1,862	0,674	59,963	25,544	43,230	117,143	1137,115	21150,341
311,600	0,000	-1,761	0,673	59,963	24,163	42,884	115,712	1136,036	21130,270

Anexo C – Valor dos esforços característicos longitudinais

C.1 Momento Fletor

C.1.1 Momento Fletor devido ao: PP (início de exploração e longo prazo); RCP; SC; VDT

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
0,410	1160,605	1101,364	204,817	580,072	-101,661	90,108	-45,054
0,820	2245,003	2126,520	402,549	1150,595	-203,322	180,217	-90,108
1,230	3258,314	3080,590	593,195	1711,571	-304,982	270,325	-135,162
1,640	4205,660	3968,694	776,756	2262,998	-406,643	360,433	-180,217
2,050	5092,159	4795,952	953,231	2728,320	-508,304	450,541	-225,271
2,460	5922,939	5565,624	1122,621	3245,340	-609,965	540,650	-270,325
2,870	6703,148	6286,280	1284,926	3752,812	-711,626	630,758	-315,379
3,280	7437,939	6961,519	1440,145	4250,736	-813,287	720,866	-360,433
3,690	8132,467	7596,494	1588,279	4602,042	-914,947	810,975	-405,487
4,100	8791,886	8196,360	1729,327	5065,639	-1016,608	901,083	-450,541
4,582	9528,311	8860,725	1886,195	5598,824	-1136,209	1007,093	-503,546
5,065	10223,276	9485,418	2033,256	6031,970	-1255,810	1113,102	-556,551
5,547	10876,780	10068,650	2170,510	6421,357	-1375,411	1219,112	-609,556
6,029	11488,824	10610,422	2297,958	6897,140	-1495,012	1325,122	-662,561
6,512	12059,408	11110,733	2415,598	7359,708	-1614,613	1431,132	-715,566
6,994	12588,531	11569,584	2523,432	7554,779	-1734,214	1537,141	-768,571
7,476	13076,193	11986,975	2621,459	7973,380	-1853,815	1643,151	-821,576
7,959	13522,396	12362,905	2709,680	8378,765	-1973,416	1749,161	-874,580
8,441	13927,137	12697,375	2788,093	8626,229	-2093,017	1855,171	-927,585
8,924	14290,419	12990,384	2856,700	8830,526	-2212,618	1961,180	-980,590
9,406	14612,240	13241,933	2915,500	9179,002	-2332,219	2067,190	-1033,595
9,888	14892,600	13452,021	2964,493	9485,322	-2451,820	2173,200	-1086,600
10,371	15131,500	13620,649	3003,679	9517,956	-2571,420	2279,210	-1139,605
10,853	15328,940	13747,816	3033,059	9764,116	-2691,021	2385,219	-1192,610
11,335	15484,919	13833,523	3052,631	10042,797	-2810,622	2491,229	-1245,615

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
11,818	15599,438	13877,770	3062,397	10105,674	-2930,223	2597,239	-1298,619
12,300	15672,496	13880,556	3062,356	10138,460	-3049,824	2703,248	-1351,624
12,797	15704,404	13840,062	3052,057	10367,479	-3173,050	2812,471	-1406,235
13,294	15692,301	13755,557	3031,347	10478,106	-3296,275	2921,693	-1460,846
13,791	15636,186	13627,041	3000,228	10380,887	-3419,500	3030,915	-1515,458
14,288	15536,061	13454,514	2958,698	10493,079	-3542,725	3140,137	-1570,069
14,785	15391,924	13237,975	2906,758	10634,474	-3665,950	3249,359	-1624,680
15,282	15203,775	12977,426	2844,408	10478,568	-3789,176	3358,581	-1679,291
15,779	14971,616	12672,864	2771,648	10408,936	-3912,401	3467,804	-1733,902
16,276	14695,445	12324,292	2688,478	10507,061	-4035,626	3577,026	-1788,513
16,773	14375,263	11931,708	2594,897	10367,522	-4158,851	3686,248	-1843,124
17,270	14011,070	11495,114	2490,906	10139,409	-4282,077	3795,470	-1897,735
17,767	13602,865	11014,507	2376,506	10162,090	-4405,302	3904,692	-1952,346
18,264	13150,649	10489,890	2251,695	10054,391	-4528,527	4013,914	-2006,957
18,761	12654,422	9921,261	2116,473	9768,663	-4651,752	4123,137	-2061,568
19,258	12114,184	9308,621	1970,842	9621,733	-4774,977	4232,359	-2116,179
19,755	11529,934	8651,970	1814,801	9546,494	-4898,203	4341,581	-2170,790
20,252	10901,673	7951,307	1648,349	9203,772	-5021,428	4450,803	-2225,402
20,748	10229,401	7206,634	1471,487	8893,931	-5144,653	4560,025	-2280,013
21,245	9513,118	6417,949	1284,215	8807,102	-5267,878	4669,247	-2334,624
21,742	8752,823	5585,252	1086,533	8452,790	-5391,104	4778,470	-2389,235
22,239	7948,517	4708,545	878,441	8039,723	-5514,329	4887,692	-2443,846
22,736	7100,200	3787,826	659,938	7844,887	-5637,554	4996,914	-2498,457
23,233	6207,871	2823,096	431,026	7524,446	-5760,779	5106,136	-2553,068
23,730	5271,531	1814,355	191,703	7055,795	-5884,004	5215,358	-2607,679
24,227	4291,180	761,602	-58,030	6713,928	-6007,230	5324,580	-2662,290
24,724	3266,818	-335,162	-318,173	6428,148	-6130,455	5433,802	-2716,901
25,221	2198,445	-1475,937	-588,726	5904,703	-6253,680	5543,025	-2771,512
25,718	1086,060	-2660,724	-869,690	5424,252	-6376,905	5652,247	-2826,123
26,215	-70,336	-3889,521	-1161,063	5159,069	-6500,131	5761,469	-2880,735
26,712	-1270,744	-5162,330	-1462,847	4596,586	-6623,356	5870,691	-2935,346
27,209	-2515,162	-6479,150	-1775,041	4005,164	-6746,581	5979,913	-2989,957
27,706	-3803,592	-7839,982	-2097,645	3668,336	-6869,806	6089,135	-3044,568
28,203	-5136,033	-9244,825	-2430,659	3142,261	-6993,031	6198,358	-3099,179
28,700	-6512,486	-10693,679	-2774,084	2497,795	-7116,257	6307,580	-3153,790
29,110	-7681,815	-11910,044	-3065,246	2420,063	-7531,298	6397,688	-3198,844
29,520	-8884,845	-13172,626	-3363,493	2454,148	-7981,103	6487,796	-3243,898

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
29,930	-10125,318	-14472,652	-3668,826	2242,234	-8440,457	6577,905	-3288,952
30,340	-11406,981	-15813,867	-3981,244	2030,319	-8909,358	6668,013	-3334,006
30,750	-12733,577	-17200,016	-4300,748	2040,895	-9387,808	6758,121	-3379,061
31,160	-14108,851	-18611,195	-4627,337	2068,107	-9875,806	6848,229	-3424,115
31,570	-15536,547	-20098,133	-4961,011	2095,319	-10373,352	6938,338	-3469,169
31,980	-17020,411	-21641,238	-5301,771	2122,531	-10880,446	7028,446	-3514,223
32,390	-18564,187	-23244,255	-5649,617	2149,743	-11397,088	7118,554	-3559,277
32,800	-20171,619	-24910,929	-6004,547	2176,955	-11923,278	7208,663	-3604,331
33,210	-18515,142	-23261,251	-5655,362	2076,920	-11227,305	7190,796	-3595,398
33,620	-16922,321	-21675,230	-5313,262	1976,884	-10540,881	7172,929	-3586,465
34,030	-15389,411	-20149,120	-4978,247	1876,848	-9872,824	7155,062	-3577,531
34,440	-13912,670	-18679,178	-4650,318	1776,813	-9334,843	7137,195	-3568,598
34,850	-12488,350	-17261,659	-4329,475	1688,428	-8806,410	7119,329	-3559,664
35,260	-11112,709	-15917,923	-4015,716	1636,427	-8287,525	7101,462	-3550,731
35,670	-9782,001	-14594,051	-3709,044	1796,422	-7778,188	7083,595	-3541,798
36,080	-8492,482	-13311,367	-3409,456	1956,418	-7278,399	7065,728	-3532,864
36,490	-7240,408	-12066,128	-3116,954	1870,413	-6788,158	7047,862	-3523,931
36,900	-6022,033	-10869,098	-2831,538	1833,465	-6307,466	7029,995	-3514,997
37,356	-4704,109	-9558,792	-2522,718	2002,471	-5784,561	7010,143	-3505,071
37,811	-3423,167	-8285,468	-2222,646	2116,810	-5273,444	6990,291	-3495,145
38,267	-2179,207	-7049,125	-1931,321	2113,580	-4875,212	6970,439	-3485,220
38,722	-972,228	-5849,764	-1648,744	2570,507	-4773,871	6950,587	-3475,294
39,178	197,770	-4687,385	-1374,914	3104,373	-4672,530	6930,735	-3465,368
39,633	1330,785	-3561,987	-1109,832	3462,452	-4571,189	6910,883	-3455,442
40,089	2426,818	-2473,571	-853,497	3729,678	-4469,848	6891,031	-3445,516
40,544	3485,870	-1422,137	-605,909	4217,911	-4368,507	6871,179	-3435,590
41,000	4507,941	-407,684	-367,069	4694,356	-4267,166	6851,327	-3425,664
41,492	5570,239	646,387	-118,947	4900,477	-4157,718	6829,887	-3414,944
41,984	6589,401	1657,322	118,972	5334,753	-4106,694	6808,447	-3404,223
42,476	7565,428	2625,122	346,688	5906,657	-4107,102	6787,007	-3393,503
42,968	8498,320	3549,787	564,201	6267,766	-4107,511	6765,567	-3382,783
43,460	9388,076	4431,316	771,512	6605,535	-4107,919	6744,127	-3372,063
43,952	10234,698	5269,710	968,619	7123,810	-4108,328	6722,686	-3361,343
44,444	11038,183	6064,968	1155,523	7530,182	-4108,736	6701,246	-3350,623
44,936	11798,533	6817,091	1332,224	7725,758	-4109,145	6679,806	-3339,903
45,428	12515,748	7526,078	1498,723	8178,266	-4109,553	6658,366	-3329,183
45,920	13189,826	8191,930	1655,018	8628,663	-4109,962	6636,926	-3318,463

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
46,412	13820,770	8814,647	1801,110	8770,112	-4110,370	6615,486	-3307,743
46,904	14408,578	9394,228	1936,999	9063,941	-4110,779	6594,046	-3297,023
47,396	14953,251	9930,674	2062,685	9459,793	-4111,187	6572,606	-3286,303
47,888	15454,788	10423,984	2178,169	9644,849	-4111,596	6551,165	-3275,583
48,380	15913,191	10874,159	2283,449	9775,809	-4112,004	6529,725	-3264,863
48,872	16328,457	11281,198	2378,526	10116,775	-4112,413	6508,285	-3254,143
49,364	16700,588	11645,102	2463,400	10345,838	-4112,821	6486,845	-3243,423
49,856	17029,583	11965,870	2538,072	10364,106	-4113,230	6465,405	-3232,702
50,348	17315,444	12243,503	2602,540	10596,697	-4113,638	6443,965	-3221,982
50,840	17558,168	12478,001	2656,805	10868,799	-4114,047	6422,525	-3211,262
51,332	17757,757	12669,363	2700,867	10831,951	-4114,455	6401,085	-3200,542
51,824	17914,211	12817,590	2734,726	10896,760	-4114,864	6379,644	-3189,822
52,316	18027,530	12922,681	2758,383	11113,596	-4115,272	6358,204	-3179,102
52,808	18097,712	12984,637	2771,836	11119,637	-4150,243	6336,764	-3168,382
53,300	18124,760	13003,457	2775,086	11015,316	-4212,622	6315,324	-3157,662
53,797	18108,289	12978,677	2768,011	11178,379	-4275,633	6293,667	-3146,834
54,294	18047,808	12909,885	2750,526	11223,050	-4338,643	6272,011	-3136,005
54,791	17943,315	12797,081	2722,631	11059,874	-4401,653	6250,354	-3125,177
55,288	17794,810	12640,267	2684,325	11062,570	-4464,663	6228,697	-3114,349
55,785	17602,295	12439,441	2635,609	11140,413	-4527,673	6207,041	-3103,520
56,282	17365,768	12194,604	2576,484	10920,955	-4590,683	6185,384	-3092,692
56,779	17085,230	11905,755	2506,948	10762,636	-4653,693	6163,727	-3081,864
57,276	16760,680	11572,896	2427,002	10799,224	-4716,703	6142,070	-3071,035
57,773	16392,120	11196,025	2336,645	10598,148	-4779,713	6120,414	-3060,207
58,270	15979,548	10775,143	2235,879	10308,498	-4842,723	6098,757	-3049,379
58,767	15522,964	10310,249	2124,702	10261,121	-4905,733	6077,100	-3038,550
59,264	15022,370	9801,345	2003,115	10093,544	-4968,743	6055,444	-3027,722
59,761	14477,764	9248,429	1871,118	9747,939	-5031,753	6033,787	-3016,894
60,258	13889,147	8651,502	1728,711	9544,097	-5094,763	6012,130	-3006,065
60,755	13256,519	8010,563	1575,894	9410,319	-5157,773	5990,474	-2995,237
61,252	12579,880	7325,613	1412,667	9009,057	-5220,783	5968,817	-2984,409
61,748	11859,229	6596,652	1239,029	8652,319	-5283,793	5947,160	-2973,580
62,245	11094,567	5823,680	1054,981	8508,000	-5346,803	5925,504	-2962,752
62,742	10285,893	5006,697	860,523	8096,198	-5409,813	5903,847	-2951,923
63,239	9433,209	4145,702	655,655	7625,640	-5472,823	5882,190	-2941,095
63,736	8536,513	3240,696	440,377	7391,927	-5535,833	5860,533	-2930,267
64,233	7595,806	2291,678	214,689	7014,791	-5598,843	5838,877	-2919,438

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
64,730	6611,087	1298,650	-21,410	6489,445	-5661,853	5817,220	-2908,610
65,227	5582,358	261,610	-267,919	6123,334	-5734,949	5795,563	-2897,782
65,724	4509,617	-819,441	-524,838	5839,678	-5856,204	5773,907	-2886,953
66,221	3392,865	-1944,503	-792,167	5318,358	-5977,460	5752,250	-2876,125
66,718	2232,101	-3113,577	-1069,906	4864,288	-6098,715	5730,593	-2865,297
67,215	1027,327	-4326,662	-1358,055	4601,619	-6219,970	5708,937	-2854,468
67,712	-221,460	-5583,758	-1656,615	4041,648	-6341,225	5687,280	-2843,640
68,209	-1514,257	-6884,866	-1965,584	3458,726	-6462,481	5665,623	-2832,812
68,706	-2851,065	-8229,984	-2284,964	3157,339	-6597,828	5643,967	-2821,983
69,203	-4231,885	-9619,114	-2614,754	3072,528	-7157,598	5622,310	-2811,155
69,700	-5656,716	-11052,256	-2954,954	2883,353	-7731,397	5600,653	-2800,327
70,110	-6865,958	-12252,181	-3243,456	2902,211	-8215,341	5582,786	-2791,393
70,520	-8108,900	-13501,958	-3539,044	2983,974	-8708,833	5564,920	-2782,460
70,930	-9389,286	-14789,180	-3841,716	2819,736	-9211,874	5547,053	-2773,526
71,340	-10710,860	-16117,590	-4151,475	2659,399	-9724,462	5529,186	-2764,593
71,750	-12077,369	-17490,934	-4468,318	2734,209	-10246,599	5511,319	-2755,660
72,160	-13492,555	-18884,635	-4792,247	2809,018	-10778,284	5493,453	-2746,726
72,570	-14960,164	-20359,044	-5123,262	2883,828	-11319,516	5475,586	-2737,793
72,980	-16483,941	-21889,620	-5461,362	2958,638	-11870,297	5457,719	-2728,860
73,390	-18067,628	-23480,107	-5806,547	3033,447	-12430,626	5439,852	-2719,926
73,800	-19714,973	-25134,251	-6158,818	3108,257	-13000,503	5421,985	-2710,993
74,210	-18062,521	-23481,355	-5807,670	2996,484	-12389,857	5426,854	-2713,427
74,620	-16473,726	-21892,114	-5463,607	2884,710	-11814,704	5431,723	-2715,861
75,030	-14944,842	-20362,786	-5126,629	2772,937	-11249,099	5436,591	-2718,296
75,440	-13472,126	-18889,624	-4796,737	2689,923	-10693,041	5441,460	-2720,730
75,850	-12051,832	-17468,886	-4473,930	2598,871	-10146,532	5446,329	-2723,164
76,260	-10680,216	-16125,274	-4158,209	2549,221	-9609,571	5451,197	-2725,599
76,670	-9353,533	-14798,144	-3849,573	2696,766	-9082,158	5456,066	-2728,033
77,080	-8068,040	-13512,203	-3548,022	2844,312	-8564,293	5460,934	-2730,467
77,490	-6819,991	-12263,707	-3253,557	2745,857	-8055,977	5465,803	-2732,902
77,900	-5605,642	-11065,254	-2966,177	2708,363	-7557,208	5470,672	-2735,336
78,356	-4292,190	-9751,305	-2655,177	2863,344	-7014,219	5476,081	-2738,041
78,811	-3015,721	-8474,337	-2352,923	2963,658	-6483,017	5481,491	-2740,745
79,267	-1776,233	-7234,351	-2059,418	3116,082	-6234,380	5486,900	-2743,450
79,722	-573,727	-6031,346	-1774,659	3565,348	-6110,078	5492,310	-2746,155
80,178	591,797	-4865,323	-1498,648	4082,154	-5985,776	5497,719	-2748,860
80,633	1720,339	-3736,282	-1231,385	4423,172	-5861,474	5503,129	-2751,565

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
81,089	2811,901	-2644,223	-972,868	4680,378	-5737,172	5508,539	-2754,269
81,544	3866,480	-1589,145	-723,100	5151,422	-5612,871	5513,948	-2756,974
82,000	4884,077	-571,049	-482,078	5610,678	-5488,569	5519,358	-2759,679
82,492	5941,545	486,957	-231,600	5801,350	-5357,439	5525,200	-2762,600
82,984	6955,877	1501,827	8,675	6272,167	-5331,705	5531,042	-2765,521
83,476	7927,073	2473,562	238,746	6824,056	-5305,972	5536,885	-2768,442
83,968	8855,135	3402,162	458,615	7165,150	-5280,238	5542,727	-2771,364
84,460	9740,060	4287,626	668,281	7486,304	-5254,505	5548,569	-2774,285
84,952	10581,851	5129,954	867,744	7984,487	-5228,771	5554,412	-2777,206
85,444	11380,506	5929,148	1057,004	8370,766	-5203,038	5560,254	-2780,127
85,936	12136,025	6685,206	1236,061	8546,250	-5177,304	5566,096	-2783,048
86,428	12848,409	7398,128	1404,915	8980,658	-5151,571	5571,939	-2785,969
86,920	13517,657	8067,915	1563,566	9410,913	-5125,837	5577,781	-2788,891
87,412	14143,771	8694,566	1712,014	9532,220	-5100,104	5583,623	-2791,812
87,904	14726,748	9278,082	1850,259	9806,816	-5074,370	5589,466	-2794,733
88,396	15266,590	9818,463	1978,301	10182,501	-5048,637	5595,308	-2797,654
88,888	15763,297	10315,708	2096,140	10347,391	-5022,903	5601,150	-2800,575
89,380	16216,868	10769,818	2203,775	10458,234	-4997,170	5606,993	-2803,496
89,872	16627,304	11180,792	2301,208	10779,032	-4971,436	5612,835	-2806,418
90,364	16994,605	11548,631	2388,438	10987,927	-4945,703	5618,677	-2809,339
90,856	17318,770	11873,334	2465,465	10986,027	-4919,969	5624,520	-2812,260
91,348	17599,799	12154,902	2532,289	11197,866	-4894,236	5630,362	-2815,181
91,840	17837,693	12393,334	2588,910	11449,819	-4868,502	5636,204	-2818,102
92,332	18032,452	12588,631	2635,328	11392,823	-4842,769	5642,047	-2821,023
92,824	18184,075	12740,793	2671,543	11436,450	-4817,035	5647,889	-2823,945
93,316	18292,563	12849,819	2697,555	11633,176	-4791,302	5653,731	-2826,866
93,808	18357,916	12915,710	2713,364	11619,106	-4765,568	5659,574	-2829,787
94,300	18380,133	12938,465	2718,970	11493,355	-4746,299	5665,416	-2832,708
94,797	18358,783	12917,659	2714,274	11636,160	-4786,683	5671,317	-2835,659
95,294	18293,421	12852,842	2699,169	11660,573	-4827,067	5677,219	-2838,609
95,791	18184,049	12744,013	2673,653	11477,139	-4867,450	5683,120	-2841,560
96,288	18030,665	12591,173	2637,727	11458,190	-4907,834	5689,021	-2844,511
96,785	17833,270	12394,322	2591,391	11515,845	-4948,218	5694,923	-2847,461
97,282	17591,864	12153,460	2534,644	11276,199	-4988,602	5700,824	-2850,412
97,779	17306,447	11868,586	2467,488	11096,305	-5028,986	5706,726	-2853,363
98,276	16977,018	11539,701	2389,921	11112,787	-5069,370	5712,627	-2856,313
98,773	16603,578	11166,805	2301,944	10891,606	-5109,754	5718,528	-2859,264

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
99,270	16186,126	10749,897	2203,557	10581,850	-5150,138	5724,430	-2862,215
99,767	15724,664	10288,978	2094,760	10513,179	-5190,522	5730,331	-2865,165
100,264	15219,190	9784,048	1975,553	10325,589	-5230,906	5736,232	-2868,116
100,761	14669,705	9235,107	1845,936	9959,970	-5271,290	5742,134	-2871,067
101,258	14076,209	8642,155	1705,908	9735,126	-5311,674	5748,035	-2874,018
101,755	13438,701	8005,191	1555,470	9581,434	-5352,058	5753,936	-2876,968
102,252	12757,182	7324,216	1394,622	9160,260	-5392,442	5759,838	-2879,919
102,748	12031,652	6599,229	1223,364	8782,882	-5432,826	5765,739	-2882,870
103,245	11262,111	5830,232	1041,696	8618,757	-5473,210	5771,640	-2885,820
103,742	10448,558	5017,223	849,618	8187,149	-5513,594	5777,542	-2888,771
104,239	9590,994	4160,203	647,129	7696,786	-5553,978	5783,443	-2891,722
104,736	8689,419	3259,171	434,230	7442,955	-5594,362	5789,344	-2894,672
105,233	7743,832	2314,129	210,921	7046,124	-5634,746	5795,246	-2897,623
105,730	6754,235	1325,075	-22,798	6501,082	-5675,130	5801,147	-2900,574
106,227	5720,626	292,009	-266,927	6121,678	-5731,982	5807,048	-2903,524
106,724	4643,005	-785,067	-521,466	5855,293	-5867,465	5812,950	-2906,475
107,221	3521,374	-1906,155	-786,416	5351,243	-6002,948	5818,851	-2909,426
107,718	2355,731	-3071,254	-1061,776	4914,796	-6138,430	5824,752	-2912,376
108,215	1146,077	-4280,364	-1347,545	4669,509	-6273,913	5830,654	-2915,327
108,712	-107,588	-5533,485	-1643,725	4126,920	-6409,395	5836,555	-2918,278
109,209	-1405,265	-6830,618	-1950,316	3562,049	-6544,878	5842,457	-2921,228
109,706	-2746,953	-8171,762	-2267,316	3300,664	-6716,965	5848,358	-2924,179
110,203	-4132,652	-9556,918	-2594,726	3236,481	-7294,100	5854,259	-2927,130
110,700	-5562,363	-10986,084	-2932,547	3067,934	-7885,264	5860,161	-2930,080
111,110	-6775,630	-12182,668	-3219,086	3104,847	-8383,534	5865,029	-2932,515
111,520	-8022,597	-13429,188	-3512,710	3203,713	-8891,353	5869,898	-2934,949
111,930	-9307,008	-14713,152	-3813,420	3056,579	-9408,720	5874,766	-2937,383
112,340	-10632,609	-16038,305	-4121,215	2914,511	-9935,634	5879,635	-2939,818
112,750	-12003,143	-17408,392	-4436,096	3006,503	-10472,097	5884,504	-2942,252
113,160	-13422,355	-18798,918	-4758,062	3098,494	-11018,108	5889,372	-2944,686
113,570	-14893,989	-20270,107	-5087,113	3190,485	-11573,667	5894,241	-2947,120
113,980	-16421,791	-21797,464	-5423,250	3282,477	-12138,774	5899,109	-2949,555
114,390	-18009,504	-23384,732	-5766,472	3374,468	-12713,430	5903,978	-2951,989
114,800	-19660,874	-25035,657	-6116,780	3466,459	-13297,633	5908,847	-2954,423
115,210	-18009,717	-23384,196	-5766,192	3365,269	-12707,269	5907,225	-2953,613
115,620	-16422,216	-21796,391	-5422,689	3269,374	-12128,300	5905,604	-2952,802
116,030	-14894,627	-20268,498	-5086,272	3173,478	-11558,879	5903,983	-2951,991

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
116,440	-13423,206	-18796,772	-4756,940	3077,583	-10999,006	5902,361	-2951,181
116,850	-12004,207	-17377,469	-4434,694	2981,687	-10448,682	5900,740	-2950,370
117,260	-10633,886	-16035,063	-4119,533	2885,792	-9907,905	5899,119	-2949,559
117,670	-9308,498	-14709,370	-3811,457	3028,413	-9376,676	5897,497	-2948,749
118,080	-8024,300	-13424,865	-3510,467	3171,586	-8854,996	5895,876	-2947,938
118,490	-6777,545	-12177,805	-3216,562	3068,759	-8342,863	5894,255	-2947,127
118,900	-5564,491	-10980,659	-2929,743	3027,746	-7840,279	5892,633	-2946,317
119,356	-4252,478	-9668,305	-2619,365	3177,854	-7293,050	5890,832	-2945,416
119,811	-2977,448	-8392,934	-2317,734	3273,296	-6757,609	5889,030	-2944,515
120,267	-1739,399	-7154,544	-2024,851	3433,017	-6516,902	5887,229	-2943,614
120,722	-538,331	-5953,136	-1740,715	3877,867	-6388,153	5885,427	-2942,714
121,178	625,754	-4788,709	-1465,327	4389,581	-6259,405	5883,626	-2941,813
121,633	1752,858	-3661,265	-1198,686	4725,508	-6130,656	5881,824	-2940,912
122,089	2842,980	-2570,802	-940,793	4978,128	-6001,907	5880,023	-2940,011
122,544	3896,121	-1517,320	-691,647	5444,071	-5873,159	5878,221	-2939,111
123,000	4912,280	-500,820	-451,248	5898,227	-5744,410	5876,420	-2938,210
123,492	5968,194	555,461	-201,442	6087,244	-5612,330	5874,474	-2937,237
123,984	6980,972	1568,608	38,160	6552,051	-5580,932	5872,528	-2936,264
124,476	7950,615	2538,619	267,560	7097,562	-5549,535	5870,583	-2935,291
124,968	8877,122	3465,494	486,756	7432,279	-5518,137	5868,637	-2934,319
125,460	9760,494	4349,234	695,750	7747,299	-5486,740	5866,692	-2933,346
125,952	10600,731	5189,839	894,540	8239,099	-5455,343	5864,746	-2932,373
126,444	11397,832	5987,308	1083,127	8618,995	-5423,945	5862,800	-2931,400
126,936	12151,797	6741,642	1261,512	8788,096	-5392,548	5860,855	-2930,427
127,428	12862,627	7452,840	1429,693	9216,264	-5361,150	5858,909	-2929,455
127,920	13530,322	8120,903	1587,672	9640,133	-5329,753	5856,963	-2928,482
128,412	14154,882	8745,831	1735,447	9755,053	-5298,356	5855,018	-2927,509
128,904	14736,306	9327,622	1873,020	10023,327	-5266,958	5853,072	-2926,536
129,396	15274,594	9866,279	2000,389	10392,624	-5235,561	5851,127	-2925,563
129,888	15769,747	10361,800	2117,556	10551,126	-5204,163	5849,181	-2924,590
130,380	16221,765	10814,186	2224,519	10655,584	-5172,766	5847,235	-2923,618
130,872	16630,647	11223,436	2321,280	10969,994	-5141,369	5845,290	-2922,645
131,364	16996,393	11589,551	2407,837	11172,500	-5109,971	5843,344	-2921,672
131,856	17319,004	11912,530	2484,192	11164,212	-5078,574	5841,398	-2920,699
132,348	17598,480	12192,374	2550,343	11369,619	-5047,176	5839,453	-2919,726
132,840	17834,821	12429,082	2606,292	11615,186	-5015,779	5837,507	-2918,754
133,332	18028,026	12622,656	2652,037	11551,803	-4984,382	5835,562	-2917,781

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
133,824	18178,095	12773,093	2687,580	11588,968	-4952,984	5833,616	-2916,808
134,316	18285,029	12880,395	2712,919	11779,309	-4921,587	5831,670	-2915,835
134,808	18348,827	12944,562	2728,056	11758,855	-4890,189	5829,725	-2914,862
135,300	18369,491	12965,593	2732,989	11626,625	-4859,221	5827,779	-2913,890
135,797	18346,571	12943,046	2727,614	11762,985	-4894,135	5825,814	-2912,907
136,294	18279,641	12876,487	2711,829	11780,953	-4929,048	5823,849	-2911,924
136,791	18168,699	12765,917	2685,634	11591,074	-4963,962	5821,883	-2910,942
137,288	18013,746	12611,335	2649,029	11565,580	-4998,875	5819,918	-2909,959
137,785	17814,781	12412,743	2602,014	11616,795	-5033,789	5817,953	-2908,976
138,282	17571,806	12170,139	2544,588	11370,709	-5068,702	5815,987	-2907,994
138,779	17284,819	11883,524	2476,752	11184,276	-5103,616	5814,022	-2907,011
139,276	16953,820	11552,898	2398,506	11194,325	-5138,530	5812,057	-2906,028
139,773	16578,811	11178,260	2309,850	10966,709	-5173,443	5810,092	-2905,046
140,270	16159,790	10759,611	2210,784	10650,519	-5208,357	5808,126	-2904,063
140,767	15696,758	10296,951	2101,308	10575,329	-5243,270	5806,161	-2903,081
141,264	15189,715	9790,279	1981,421	10381,311	-5278,184	5804,196	-2902,098
141,761	14638,660	9239,597	1851,125	10009,266	-5313,097	5802,230	-2901,115
142,258	14043,594	8644,903	1710,418	9777,923	-5348,011	5800,265	-2900,133
142,755	13404,517	8006,197	1559,301	9617,812	-5382,925	5798,300	-2899,150
143,252	12721,429	7323,481	1397,774	9190,217	-5417,838	5796,335	-2898,167
143,748	11994,330	6596,753	1225,836	8806,368	-5452,752	5794,369	-2897,185
144,245	11223,218	5826,014	1043,489	8635,830	-5487,665	5792,404	-2896,202
144,742	10408,096	5011,264	850,731	8197,810	-5522,579	5790,439	-2895,219
145,239	9548,963	4152,502	647,563	7701,034	-5557,492	5788,474	-2894,237
145,736	8645,818	3249,729	433,985	7440,770	-5592,406	5786,508	-2893,254
146,233	7698,662	2302,945	209,997	7037,534	-5627,320	5784,543	-2892,272
146,730	6707,495	1312,150	-24,401	6486,088	-5662,233	5782,578	-2891,289
147,227	5672,317	277,343	-269,210	6102,157	-5715,489	5780,612	-2890,306
147,724	4593,127	-801,475	-524,428	5840,082	-5856,208	5778,647	-2889,324
148,221	3469,926	-1924,304	-790,057	5340,343	-5996,928	5776,682	-2888,341
148,718	2302,714	-3091,144	-1066,096	4908,235	-6137,647	5774,717	-2887,358
149,215	1091,490	-4301,996	-1352,545	4667,266	-6278,367	5772,751	-2886,376
149,712	-163,745	-5556,859	-1649,404	4128,996	-6419,087	5770,786	-2885,393
150,209	-1462,991	-6855,733	-1956,674	3568,496	-6559,806	5768,821	-2884,410
150,706	-2806,248	-8198,619	-2274,353	3313,115	-6738,807	5766,856	-2883,428
151,203	-4193,517	-9585,516	-2602,443	3253,484	-7321,405	5764,890	-2882,445
151,700	-5624,797	-11016,424	-2940,943	3089,490	-7918,031	5762,925	-2881,463

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
152,110	-6839,359	-12214,540	-3228,042	3130,238	-8420,809	5761,304	-2880,652
152,520	-8087,621	-13462,496	-3522,227	3232,866	-8933,134	5759,682	-2879,841
152,930	-9373,327	-14747,896	-3823,497	3089,495	-9455,008	5758,061	-2879,030
153,340	-10700,222	-16074,486	-4131,853	2950,966	-9986,430	5756,440	-2878,220
153,750	-12072,051	-17446,008	-4447,293	3046,721	-10527,400	5754,818	-2877,409
154,160	-13492,558	-18838,133	-4769,820	3142,476	-11077,918	5753,197	-2876,598
154,570	-14965,487	-20310,758	-5099,432	3238,231	-11637,984	5751,575	-2875,788
154,980	-16494,583	-21839,551	-5436,129	3333,986	-12207,598	5749,954	-2874,977
155,390	-18083,592	-23428,255	-5779,911	3429,741	-12786,760	5748,333	-2874,166
155,800	-19736,256	-25080,615	-6130,780	3525,498	-13375,474	5746,711	-2873,356
156,210	-18081,439	-23427,800	-5779,911	3429,742	-12786,764	5748,333	-2874,166
156,620	-16490,278	-21838,641	-5436,129	3333,987	-12207,602	5749,954	-2874,977
157,030	-14959,030	-20309,394	-5099,432	3238,232	-11637,987	5751,575	-2875,788
157,440	-13483,948	-18836,314	-4769,820	3142,477	-11077,921	5753,197	-2876,598
157,850	-12061,289	-17415,656	-4447,293	3046,722	-10527,403	5754,818	-2877,409
158,260	-10687,308	-16071,810	-4131,853	2950,967	-9986,433	5756,440	-2878,220
158,670	-9358,260	-14744,774	-3823,497	3089,495	-9455,012	5758,061	-2879,030
159,080	-8070,402	-13458,928	-3522,227	3232,866	-8933,138	5759,682	-2879,841
159,490	-6819,987	-12210,526	-3228,042	3130,238	-8420,812	5761,304	-2880,652
159,900	-5603,273	-11012,015	-2940,943	3089,490	-7918,035	5762,925	-2881,463
160,356	-4287,193	-9698,178	-2630,254	3239,818	-7370,591	5764,726	-2882,363
160,811	-3008,096	-8421,323	-2328,312	3335,479	-6834,936	5766,528	-2883,264
161,267	-1765,980	-7181,450	-2035,118	3496,395	-6594,989	5768,329	-2884,165
161,722	-560,846	-5978,559	-1750,671	3941,486	-6465,996	5770,131	-2885,066
162,178	607,306	-4812,649	-1474,971	4453,389	-6337,003	5771,932	-2885,966
162,633	1738,477	-3683,721	-1208,019	4789,504	-6208,010	5773,734	-2886,867
163,089	2832,666	-2591,775	-949,815	5042,350	-6079,017	5775,535	-2887,768
163,544	3889,873	-1536,810	-700,357	5508,482	-5950,024	5777,337	-2888,669
164,000	4910,098	-518,827	-459,648	5962,825	-5821,032	5779,138	-2889,569
164,492	5970,404	539,057	-209,506	6152,127	-5688,770	5781,084	-2890,542
164,984	6987,575	1553,805	30,432	6614,258	-5654,206	5783,030	-2891,515
165,476	7961,609	2525,418	260,168	7157,068	-5619,641	5784,975	-2892,488
165,968	8892,509	3453,896	479,700	7489,082	-5585,077	5786,921	-2893,461
166,460	9780,273	4339,238	689,030	7801,416	-5550,512	5788,867	-2894,433
166,952	10624,902	5181,445	888,156	8290,513	-5515,948	5790,812	-2895,406
167,444	11426,395	5980,516	1077,080	8667,706	-5481,383	5792,758	-2896,379
167,936	12184,752	6736,452	1255,800	8834,105	-5446,819	5794,703	-2897,352

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
168,428	12899,975	7449,252	1424,318	9259,575	-5412,254	5796,649	-2898,325
168,920	13572,061	8118,917	1582,632	9680,741	-5377,690	5798,595	-2899,297
169,412	14201,013	8745,446	1730,743	9792,957	-5343,125	5800,540	-2900,270
169,904	14786,829	9328,840	1868,652	10058,527	-5308,561	5802,486	-2901,243
170,396	15329,509	9869,099	1996,357	10425,120	-5273,996	5804,432	-2902,216
170,888	15829,054	10366,222	2113,860	10580,917	-5239,432	5806,377	-2903,189
171,380	16285,464	10820,209	2221,159	10682,664	-5204,867	5808,323	-2904,161
171,872	16698,738	11231,062	2318,256	10994,369	-5170,303	5810,268	-2905,134
172,364	17068,877	11598,778	2405,149	11194,171	-5135,738	5812,214	-2906,107
172,856	17395,880	11923,360	2481,840	11183,178	-5101,174	5814,160	-2907,080
173,348	17679,748	12204,806	2548,327	11385,870	-5066,609	5816,105	-2908,053
173,840	17920,480	12443,116	2604,612	11628,731	-5032,045	5818,051	-2909,025
174,332	18118,077	12638,291	2650,693	11562,643	-4997,480	5819,997	-2909,998
174,824	18272,539	12790,331	2686,572	11597,090	-4962,916	5821,942	-2910,971
175,316	18383,865	12899,235	2712,247	11784,727	-4928,351	5823,888	-2911,944
175,808	18452,055	12965,004	2727,720	11761,567	-4893,787	5825,833	-2912,917
176,300	18477,110	12987,637	2732,989	11626,618	-4859,222	5827,779	-2913,890
176,797	18458,628	12966,707	2727,954	11760,245	-4890,505	5829,744	-2914,872
177,294	18396,133	12901,767	2712,508	11775,481	-4922,220	5831,710	-2915,855
177,791	18289,628	12792,815	2686,652	11582,870	-4953,934	5833,675	-2916,837
178,288	18139,111	12639,852	2650,387	11554,630	-4985,649	5835,640	-2917,820
178,785	17944,583	12442,877	2603,711	11603,113	-5017,363	5837,605	-2918,803
179,282	17706,044	12201,892	2546,624	11354,295	-5049,078	5839,571	-2919,785
179,779	17423,493	11916,895	2479,128	11165,118	-5080,792	5841,536	-2920,768
180,276	17096,931	11587,887	2401,222	11172,435	-5112,506	5843,501	-2921,751
180,773	16726,358	11214,867	2312,905	10942,087	-5144,221	5845,467	-2922,733
181,270	16311,774	10797,836	2214,178	10623,165	-5175,935	5847,432	-2923,716
181,767	15853,178	10336,794	2105,041	10545,237	-5207,650	5849,397	-2924,699
182,264	15350,572	9831,741	1985,494	10348,488	-5239,364	5851,362	-2925,681
182,761	14803,953	9282,676	1855,537	9973,711	-5271,079	5853,328	-2926,664
183,258	14213,324	8689,601	1715,169	9739,636	-5302,793	5855,293	-2927,646
183,755	13578,683	8052,514	1564,392	9576,794	-5334,508	5857,258	-2928,629
184,252	12900,031	7371,415	1403,204	9146,469	-5366,222	5859,223	-2929,612
184,748	12177,368	6646,306	1231,606	8759,895	-5397,937	5861,189	-2930,594
185,245	11410,694	5877,185	1049,598	8586,627	-5429,651	5863,154	-2931,577
185,742	10600,008	5064,053	857,179	8145,877	-5461,366	5865,119	-2932,560
186,239	9745,311	4206,909	654,351	7646,371	-5493,080	5867,085	-2933,542

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
186,736	8846,603	3305,755	441,112	7383,393	-5524,795	5869,050	-2934,525
187,233	7903,883	2360,589	217,464	6977,428	-5556,509	5871,015	-2935,508
187,730	6917,152	1371,411	-16,595	6423,253	-5588,224	5872,980	-2936,490
188,227	5886,410	338,223	-261,064	6037,405	-5639,067	5874,946	-2937,473
188,724	4811,657	-738,977	-515,944	5775,535	-5779,520	5876,911	-2938,456
189,221	3692,893	-1860,188	-781,233	5276,001	-5919,973	5878,876	-2939,438
189,718	2530,117	-3025,410	-1056,933	4844,136	-6060,426	5880,842	-2940,421
190,215	1323,330	-4234,644	-1343,042	4603,373	-6200,879	5882,807	-2941,403
190,712	72,531	-5487,888	-1639,562	4065,309	-6341,332	5884,772	-2942,386
191,209	-1222,279	-6785,144	-1946,492	3505,066	-6481,786	5886,737	-2943,369
191,706	-2561,100	-8126,412	-2263,832	3250,891	-6661,519	5888,703	-2944,351
192,203	-3943,932	-9511,690	-2591,583	3191,501	-7243,883	5890,668	-2945,334
192,700	-5370,775	-10940,980	-2929,743	3027,746	-7840,275	5892,633	-2946,317
193,110	-6581,677	-12137,220	-3216,562	3068,759	-8342,860	5894,255	-2947,127
193,520	-7826,279	-13383,834	-3510,467	3171,586	-8854,992	5895,876	-2947,938
193,930	-9108,326	-14667,892	-3811,457	3028,413	-9376,673	5897,497	-2948,749
194,340	-10431,561	-15993,140	-4119,533	2885,791	-9907,901	5899,119	-2949,559
194,750	-11799,729	-17363,321	-4434,694	2981,686	-10448,678	5900,740	-2950,370
195,160	-13216,576	-18753,101	-4756,940	3077,582	-10999,003	5902,361	-2951,181
195,570	-14685,845	-20224,372	-5086,272	3173,477	-11558,875	5903,983	-2951,991
195,980	-16211,282	-21751,810	-5422,689	3269,372	-12128,296	5905,604	-2952,802
196,390	-17796,630	-23339,160	-5766,192	3365,268	-12707,265	5907,225	-2953,613
196,800	-19445,634	-24990,166	-6116,780	3466,460	-13297,637	5908,847	-2954,423
197,210	-17804,572	-23341,420	-5766,472	3374,469	-12713,433	5903,978	-2951,989
197,620	-16227,166	-21756,330	-5423,250	3282,478	-12138,778	5899,109	-2949,555
198,030	-14709,672	-20231,151	-5087,113	3190,486	-11573,671	5894,241	-2947,120
198,440	-13248,344	-18762,140	-4758,062	3098,495	-11018,112	5889,372	-2944,686
198,850	-11839,440	-17345,552	-4436,096	3006,504	-10472,101	5884,504	-2942,252
199,260	-10479,214	-16006,520	-4121,215	2914,512	-9935,638	5879,635	-2939,818
199,670	-9163,921	-14683,503	-3813,420	3056,579	-9408,723	5874,766	-2937,383
200,080	-7889,817	-13401,674	-3512,710	3203,713	-8891,356	5869,898	-2934,949
200,490	-6653,157	-12157,290	-3219,086	3104,847	-8383,538	5865,029	-2932,515
200,900	-5450,197	-10963,109	-2932,547	3067,934	-7885,267	5860,161	-2930,080
201,356	-4149,401	-9653,705	-2622,480	3222,435	-7342,831	5854,751	-2927,376
201,811	-2885,586	-8381,282	-2321,161	3322,270	-6812,183	5849,341	-2924,671
202,267	-1658,753	-7145,841	-2028,590	3488,867	-6578,752	5843,932	-2921,966
202,722	-468,902	-5947,381	-1744,765	3937,969	-6454,560	5838,522	-2919,261

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
203,178	683,967	-4785,903	-1469,689	4453,832	-6330,367	5833,113	-2916,556
203,633	1799,855	-3661,407	-1203,359	4793,906	-6206,175	5827,703	-2913,852
204,089	2878,761	-2573,893	-945,777	5050,736	-6081,982	5822,294	-2911,147
204,544	3920,685	-1523,360	-696,943	5520,819	-5957,790	5816,884	-2908,442
205,000	4925,628	-509,809	-456,856	5979,114	-5833,597	5811,474	-2905,737
205,492	5969,428	543,288	-207,387	6171,987	-5705,825	5805,632	-2902,816
205,984	6970,093	1553,250	31,880	6627,779	-5665,844	5799,790	-2899,895
206,476	7927,622	2520,076	260,943	7164,249	-5625,864	5793,947	-2896,974
206,968	8842,016	3443,767	479,803	7489,923	-5585,884	5788,105	-2894,053
207,460	9713,275	4324,323	688,460	7795,885	-5545,904	5782,263	-2891,131
207,952	10541,398	5161,743	886,913	8278,634	-5505,924	5776,420	-2888,210
208,444	11326,385	5956,028	1075,164	8649,479	-5465,943	5770,578	-2885,289
208,936	12068,237	6707,177	1253,212	8809,529	-5425,963	5764,736	-2882,368
209,428	12766,954	7415,191	1421,058	9228,591	-5385,983	5758,893	-2879,447
209,920	13422,535	8080,069	1578,700	9643,401	-5346,003	5753,051	-2876,526
210,412	14034,981	8701,812	1726,139	9749,261	-5306,023	5747,209	-2873,604
210,904	14604,292	9280,419	1863,375	10008,396	-5266,042	5741,366	-2870,683
211,396	15130,467	9815,891	1990,408	10368,626	-5226,062	5735,524	-2867,762
211,888	15613,506	10308,228	2107,238	10518,060	-5186,082	5729,682	-2864,841
212,380	16053,410	10757,429	2213,865	10613,352	-5146,102	5723,839	-2861,920
212,872	16450,179	11163,495	2310,289	10918,687	-5106,122	5717,997	-2858,999
213,364	16803,812	11526,425	2396,510	11112,119	-5066,142	5712,155	-2856,077
213,856	17114,310	11846,220	2472,528	11094,756	-5026,161	5706,312	-2853,156
214,348	17381,672	12122,879	2538,343	11290,973	-4986,181	5700,470	-2850,235
214,840	17605,899	12356,403	2593,955	11527,459	-4946,201	5694,628	-2847,314
215,332	17786,990	12546,791	2639,364	11454,995	-4906,221	5688,785	-2844,393
215,824	17924,946	12694,044	2674,570	11482,962	-4866,241	5682,943	-2841,472
216,316	18019,767	12798,162	2699,573	11664,218	-4826,260	5677,101	-2838,550
216,808	18071,452	12859,144	2714,373	11634,678	-4786,280	5671,258	-2835,629
217,300	18080,001	12876,991	2718,970	11493,253	-4746,300	5665,416	-2832,708
217,797	18044,846	12851,226	2713,255	11620,432	-4765,826	5659,515	-2829,757
218,294	17965,680	12781,451	2697,130	11629,218	-4791,820	5653,613	-2826,807
218,791	17842,502	12667,664	2670,596	11430,159	-4817,813	5647,712	-2823,856
219,288	17675,313	12509,866	2633,650	11395,393	-4843,806	5641,811	-2820,905
219,785	17464,113	12308,057	2586,295	11437,424	-4869,800	5635,909	-2817,955
220,282	17208,901	12062,236	2528,530	11182,154	-4895,793	5630,008	-2815,004
220,779	16909,678	11772,404	2460,354	10986,482	-4921,787	5624,107	-2812,053

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
221,773	16179,199	11060,707	2292,772	10750,545	-4973,773	5612,304	-2806,152
222,270	15747,942	10638,841	2193,366	10425,170	-4999,767	5606,403	-2803,201
222,767	15272,674	10172,964	2083,550	10340,793	-5025,760	5600,501	-2800,251
223,264	14753,395	9663,076	1963,324	10137,591	-5051,753	5594,600	-2797,300
223,761	14190,105	9109,177	1832,687	9756,361	-5077,747	5588,699	-2794,349
224,258	13582,803	8511,266	1691,640	9515,900	-5103,740	5582,797	-2791,399
224,755	12931,490	7869,344	1540,184	9346,607	-5129,734	5576,896	-2788,448
225,252	12236,166	7183,411	1378,317	8909,831	-5155,727	5570,995	-2785,497
225,748	11496,831	6453,466	1206,039	8516,952	-5181,720	5565,093	-2782,547
226,245	10713,484	5679,511	1023,352	8337,238	-5207,714	5559,192	-2779,596
226,742	9886,126	4861,544	830,255	7890,040	-5233,707	5553,290	-2776,645
227,239	9014,757	3999,565	626,747	7384,087	-5259,700	5547,389	-2773,695
227,736	8099,376	3093,576	412,829	7114,911	-5285,694	5541,488	-2770,744
228,233	7139,984	2143,575	188,501	6702,505	-5311,687	5535,586	-2767,793
228,730	6136,581	1149,563	-46,237	6141,888	-5337,681	5529,685	-2764,843
229,227	5089,167	111,539	-291,385	5754,029	-5386,864	5523,784	-2761,892
229,724	3997,741	-970,495	-546,944	5486,595	-5522,466	5517,882	-2758,941
230,221	2862,305	-2096,541	-812,913	4981,497	-5658,068	5511,981	-2755,991
230,718	1682,856	-3266,598	-1089,291	4544,577	-5793,670	5506,080	-2753,040
231,215	459,397	-4480,667	-1376,080	4298,260	-5929,272	5500,178	-2750,089
231,712	-808,074	-5738,746	-1673,279	3754,641	-6064,874	5494,277	-2747,139
232,209	-2119,556	-7040,837	-1980,889	3189,515	-6200,476	5488,376	-2744,188
232,706	-3475,049	-8386,940	-2298,908	2942,140	-6387,698	5482,474	-2741,237
233,203	-4874,553	-9777,053	-2627,338	2877,433	-6965,437	5476,573	-2738,287
233,700	-6318,069	-11211,178	-2966,177	2708,363	-7557,204	5470,672	-2735,336
234,110	-7542,726	-12413,462	-3253,557	2745,857	-8055,973	5465,803	-2732,902
234,520	-8801,082	-13664,095	-3548,022	2844,312	-8564,289	5460,934	-2730,467
234,930	-10096,883	-14952,171	-3849,573	2696,766	-9082,154	5456,066	-2728,033
235,340	-11433,873	-16281,436	-4158,209	2549,221	-9609,567	5451,197	-2725,599
235,750	-12815,796	-17655,635	-4473,930	2598,871	-10146,528	5446,329	-2723,164
236,160	-14246,397	-19053,266	-4796,737	2689,923	-10693,037	5441,460	-2720,730
236,570	-15729,421	-20528,606	-5126,629	2772,938	-11249,094	5436,591	-2718,296
237,390	-18867,715	-23651,532	-5807,670	2996,485	-12389,853	5426,854	-2713,427
237,800	-20530,474	-25306,607	-6158,818	3108,258	-13000,507	5421,985	-2710,993
238,210	-18838,044	-23642,933	-5806,547	3033,448	-12430,630	5439,852	-2719,926
238,620	-17209,269	-22042,916	-5461,362	2958,639	-11870,301	5457,719	-2728,860
239,030	-15640,406	-20502,811	-5123,262	2883,829	-11319,520	5475,586	-2737,793

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
239,440	-14127,711	-19018,873	-4792,247	2809,019	-10778,287	5493,453	-2746,726
239,850	-12667,438	-17587,358	-4468,318	2734,210	-10246,603	5511,319	-2755,660
240,260	-11255,843	-16230,512	-4151,475	2659,400	-9724,466	5529,186	-2764,593
240,670	-9889,182	-14892,759	-3841,716	2819,736	-9211,877	5547,053	-2773,526
241,080	-8563,709	-13596,195	-3539,044	2983,974	-8708,837	5564,920	-2782,460
241,490	-7275,681	-12337,076	-3243,456	2902,211	-8215,344	5582,786	-2791,393
241,900	-6021,352	-11126,940	-2954,954	2883,353	-7731,400	5600,653	-2800,327
242,356	-4663,480	-9801,285	-2642,706	3056,764	-7204,882	5620,505	-2810,253
242,811	-3342,590	-8512,611	-2339,206	3175,507	-6690,153	5640,357	-2820,179
243,267	-2058,681	-7260,919	-2044,453	3381,171	-6492,798	5660,209	-2830,105
243,722	-811,753	-6046,209	-1758,448	3846,904	-6381,647	5680,061	-2840,031
244,178	398,192	-4868,481	-1481,190	4378,700	-6270,496	5699,913	-2849,957
244,633	1571,156	-3727,734	-1212,679	4734,707	-6159,346	5719,765	-2859,883
245,089	2707,138	-2623,969	-952,916	5007,777	-6048,195	5739,617	-2869,809
245,544	3806,138	-1557,186	-701,900	5493,690	-5937,044	5759,469	-2879,734
246,000	4868,157	-527,385	-459,632	5967,816	-5825,894	5779,321	-2889,660
246,492	5973,600	543,263	-207,807	6175,326	-5709,744	5800,761	-2900,381
246,984	7035,907	1570,776	33,815	6611,612	-5647,364	5822,201	-2911,101
247,476	8055,078	2555,153	265,233	7128,583	-5584,984	5843,641	-2921,821
247,968	9031,114	3496,394	486,449	7434,758	-5522,604	5865,081	-2932,541
248,460	9964,015	4394,501	697,462	7720,778	-5460,224	5886,522	-2943,261
248,952	10853,780	5249,471	898,271	8183,919	-5397,844	5907,962	-2953,981
249,444	11700,410	6061,306	1088,878	8535,156	-5335,464	5929,402	-2964,701
249,936	12503,904	6830,006	1269,282	8675,599	-5273,084	5950,842	-2975,421
250,428	13264,263	7555,571	1439,483	9074,201	-5210,704	5972,282	-2986,141
250,920	13981,486	8238,000	1599,480	9469,298	-5148,324	5993,722	-2996,861
251,412	14655,574	8877,293	1749,275	9555,445	-5085,944	6015,162	-3007,581
252,396	15874,344	10026,474	2018,255	10134,180	-4961,184	6058,043	-3029,021
252,888	16419,026	10536,361	2137,441	10263,802	-4898,804	6079,483	-3039,741
253,380	16920,572	11003,113	2246,424	10337,989	-4836,424	6100,923	-3050,461
253,872	17378,983	11426,729	2345,204	10623,420	-4774,044	6122,363	-3061,181
254,364	17794,258	11807,210	2433,780	10796,947	-4711,664	6143,803	-3071,902
254,856	18166,398	12144,555	2512,154	10759,680	-4649,284	6165,243	-3082,622
255,348	18495,402	12438,765	2580,325	10934,518	-4586,904	6186,683	-3093,342
255,840	18781,271	12689,839	2638,293	11151,018	-4524,524	6208,123	-3104,062
256,332	19024,005	12897,779	2686,057	11058,568	-4462,144	6229,564	-3114,782
256,824	19223,603	13062,582	2723,619	11065,090	-4399,764	6251,004	-3125,502

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
257,316	19380,066	13184,250	2750,978	11226,290	-4337,384	6272,444	-3136,222
257,808	19493,393	13262,783	2768,133	11176,695	-4275,004	6293,884	-3146,942
258,300	19563,585	13298,180	2775,086	11015,196	-4212,624	6315,324	-3157,662
258,797	19590,694	13290,144	2771,751	11120,760	-4149,614	6336,981	-3168,490
259,294	19573,792	13238,096	2758,006	11109,233	-4115,266	6358,637	-3179,319
259,791	19512,880	13142,037	2733,850	10889,860	-4114,853	6380,294	-3190,147
260,288	19407,955	13001,967	2699,285	10833,706	-4114,441	6401,951	-3200,975
260,785	19259,020	12817,886	2654,309	10855,386	-4114,028	6423,607	-3211,804
261,282	19066,073	12589,793	2598,923	10579,764	-4113,616	6445,264	-3222,632
261,779	18829,115	12317,689	2533,127	10363,135	-4113,203	6466,921	-3233,460
262,276	18548,146	12001,574	2456,921	10343,627	-4112,791	6488,578	-3244,289
262,773	18223,165	11641,448	2370,304	10086,454	-4112,378	6510,234	-3255,117
263,270	17854,174	11237,310	2273,278	9740,708	-4111,966	6531,891	-3265,945
263,767	17441,170	10789,161	2165,841	9636,010	-4111,553	6553,548	-3276,774
264,264	16984,156	10297,001	2047,994	9412,438	-4111,141	6575,204	-3287,602
264,761	16483,131	9760,829	1919,737	9010,837	-4110,728	6596,861	-3298,431
265,258	15938,094	9180,646	1781,070	8750,944	-4110,316	6618,518	-3309,259
265,755	15349,046	8556,452	1631,992	8561,305	-4109,903	6640,174	-3320,087
266,252	14715,986	7888,247	1472,505	8104,183	-4109,491	6661,831	-3330,916
266,748	14038,916	7176,030	1302,607	7693,011	-4109,078	6683,488	-3341,744
267,245	13317,834	6419,802	1122,299	7493,001	-4108,665	6705,144	-3352,572
267,742	12552,740	5619,563	931,581	7025,508	-4108,253	6726,801	-3363,401
268,736	10890,520	3887,051	518,915	6213,280	-4107,428	6770,115	-3385,057
269,233	9993,393	2954,778	296,966	5780,656	-4107,015	6791,771	-3395,886
269,730	9052,255	1978,494	64,608	5199,822	-4106,603	6813,428	-3406,714
270,227	8067,105	958,198	-178,161	4851,771	-4184,254	6835,085	-3417,542
270,724	7037,945	-106,108	-431,340	4565,585	-4294,808	6856,741	-3428,371
271,221	5964,773	-1214,426	-694,929	4041,735	-4405,362	6878,398	-3439,199
271,718	4847,589	-2366,756	-968,929	3593,163	-4515,916	6900,055	-3450,027
272,215	3686,395	-3563,096	-1253,338	3328,234	-4626,470	6921,711	-3460,856
272,712	2481,189	-4803,448	-1548,158	2766,004	-4737,024	6943,368	-3471,684
273,209	1231,972	-6087,811	-1853,387	2191,623	-4847,578	6965,025	-3482,512
273,706	-61,257	-7416,185	-2169,027	2097,842	-5181,785	6986,681	-3493,341
274,203	-1398,496	-8788,571	-2495,077	2017,835	-5737,613	7008,338	-3504,169
274,700	-2779,747	-10204,968	-2831,538	1833,465	-6307,470	7029,995	-3514,997
275,110	-3953,036	-11384,937	-3116,954	1870,413	-6788,163	7047,862	-3523,931
275,520	-5160,024	-12620,834	-3409,456	1956,418	-7278,404	7065,728	-3532,864

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
275,930	-6404,456	-13894,175	-3709,044	1796,422	-7778,193	7083,595	-3541,798
276,340	-7690,077	-15208,705	-4015,716	1636,427	-8287,530	7101,462	-3550,731
276,750	-9020,632	-16568,168	-4329,475	1688,428	-8806,415	7119,329	-3559,664
277,160	-10399,865	-17936,724	-4650,318	1776,814	-9334,848	7137,195	-3568,598
277,570	-11831,520	-19397,137	-4978,247	1876,849	-9872,829	7155,062	-3577,531
277,980	-13319,343	-20913,718	-5313,262	1976,885	-10540,879	7172,929	-3586,465
278,390	-14867,077	-22490,209	-5655,362	2076,921	-11227,307	7190,796	-3595,398
278,800	-16478,468	-24130,358	-6004,547	2176,956	-11923,282	7208,663	-3604,331
279,210	-14917,192	-22473,433	-5649,617	2149,744	-11397,092	7118,554	-3559,277
279,620	-13419,572	-20880,164	-5301,771	2122,532	-10880,450	7028,446	-3514,223
280,030	-11981,864	-19346,807	-4961,011	2095,320	-10373,356	6938,338	-3469,169
280,440	-10600,323	-17869,618	-4627,337	2068,108	-9875,810	6848,229	-3424,115
280,850	-9271,204	-16444,851	-4300,748	2040,896	-9387,812	6758,121	-3379,061
281,260	-7990,764	-15105,937	-3981,244	2030,319	-8909,362	6668,013	-3334,006
281,670	-6755,257	-13774,279	-3668,826	2242,234	-8440,461	6577,905	-3288,952
282,080	-5560,939	-12483,810	-3363,493	2454,148	-7981,107	6487,796	-3243,898
282,490	-4404,065	-11230,785	-3065,246	2420,063	-7531,301	6397,688	-3198,844
283,356	-2068,746	-8712,369	-2458,880	3089,092	-7003,304	6207,459	-3103,730
283,811	-893,583	-7430,050	-2152,424	3613,934	-6890,347	6107,339	-3053,670
284,267	244,599	-6184,714	-1854,716	3908,322	-6777,391	6007,219	-3003,609
284,722	1345,799	-4976,358	-1565,755	4401,004	-6664,434	5907,099	-2953,549
285,178	2410,017	-3804,985	-1285,541	4935,103	-6551,478	5806,978	-2903,489
285,633	3437,254	-2670,593	-1014,075	5293,414	-6438,521	5706,858	-2853,429
286,089	4427,508	-1573,183	-751,357	5592,881	-6325,565	5606,738	-2803,369
286,544	5380,782	-512,755	-497,385	6080,743	-6212,608	5506,617	-2753,309
287,000	6297,073	510,692	-252,161	6556,817	-6099,652	5406,497	-2703,248
287,492	7245,130	1574,477	2,855	6762,537	-5977,659	5298,367	-2649,184
287,984	8150,052	2595,126	247,669	7164,917	-5855,666	5190,237	-2595,119
288,476	9011,838	3572,639	482,280	7625,760	-5733,673	5082,107	-2541,054
288,968	9830,488	4507,018	706,687	7875,808	-5611,679	4973,977	-2486,989
289,460	10606,004	5398,261	920,892	8123,367	-5489,686	4865,847	-2432,924
289,952	11338,383	6246,368	1124,894	8529,592	-5367,693	4757,717	-2378,859
290,444	12027,628	7051,340	1318,692	8823,914	-5245,700	4649,587	-2324,794
290,936	12673,737	7813,176	1502,288	8908,659	-5123,707	4541,457	-2270,729
291,428	13276,710	8531,877	1675,681	9259,551	-5001,714	4433,328	-2216,664
291,920	13836,548	9207,443	1838,870	9596,693	-4879,721	4325,198	-2162,599
292,412	14353,251	9839,873	1991,857	9624,885	-4757,728	4217,068	-2108,534

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
292,904	14826,818	10429,168	2134,641	9806,704	-4635,735	4108,938	-2054,469
293,396	15257,249	10975,327	2267,222	10087,842	-4513,742	4000,808	-2000,404
293,888	15644,546	11478,351	2389,599	10158,185	-4391,749	3892,678	-1946,339
294,380	15988,706	11938,240	2501,774	10162,742	-4269,756	3784,548	-1892,274
294,872	16289,732	12354,993	2603,746	10387,251	-4147,763	3676,418	-1838,209
295,364	16547,622	12728,610	2695,514	10499,857	-4025,770	3568,288	-1784,144
295,856	16762,376	13059,092	2777,080	10401,667	-3903,777	3460,158	-1730,079
296,348	16933,995	13346,439	2848,443	10488,318	-3781,784	3352,028	-1676,014
296,840	17062,479	13590,650	2909,602	10641,901	-3659,791	3243,898	-1621,949
297,332	17147,827	13791,726	2960,559	10486,535	-3537,798	3135,768	-1567,884
297,824	17190,040	13949,666	3001,313	10384,137	-3415,805	3027,638	-1513,819
298,316	17189,117	14064,471	3031,864	10480,041	-3293,812	2919,508	-1459,754
299,300	17057,865	14164,674	3062,356	10138,356	-3049,826	2703,248	-1351,624
299,782	16930,506	14150,774	3062,397	10105,674	-2930,225	2597,239	-1298,619
300,265	16761,687	14095,413	3052,631	10042,797	-2810,624	2491,229	-1245,615
300,747	16551,407	13998,591	3033,059	9764,116	-2691,023	2385,219	-1192,610
301,229	16299,666	13860,310	3003,679	9517,956	-2571,422	2279,210	-1139,605
301,712	16006,466	13680,567	2964,493	9485,322	-2451,821	2173,200	-1086,600
302,194	15671,804	13459,365	2915,500	9179,002	-2332,220	2067,190	-1033,595
302,676	15295,683	13196,701	2856,700	8830,526	-2212,619	1961,180	-980,590
303,159	14878,101	12892,578	2788,093	8626,229	-2093,018	1855,171	-927,585
303,641	14419,058	12546,994	2709,680	8378,765	-1973,417	1749,161	-874,580
304,124	13918,555	12159,949	2621,459	7973,380	-1853,816	1643,151	-821,576
304,606	13376,592	11731,444	2523,432	7554,779	-1734,215	1537,141	-768,571
305,088	12793,168	11261,479	2415,598	7359,708	-1614,614	1431,132	-715,566
305,571	12168,284	10750,053	2297,958	6897,140	-1495,013	1325,122	-662,561
306,053	11501,939	10197,167	2170,510	6421,357	-1375,412	1219,112	-609,556
306,535	10794,134	9602,820	2033,256	6031,970	-1255,811	1113,102	-556,551
307,018	10044,868	8967,013	1886,195	5598,824	-1136,210	1007,093	-503,546
307,500	9254,142	8289,745	1729,327	5065,639	-1016,609	901,083	-450,541
307,910	8548,568	7683,209	1588,279	4602,042	-914,948	810,975	-405,487
308,320	7807,884	7038,676	1440,145	4250,736	-813,287	720,866	-360,433
308,730	7026,937	6353,880	1284,926	3752,812	-711,626	630,758	-315,379
309,140	6200,573	5623,667	1122,621	3245,340	-609,965	540,650	-270,325
309,550	5323,638	4842,883	953,231	2728,320	-508,304	450,541	-225,271
309,960	4390,977	4008,383	776,756	2262,998	-406,643	360,433	-180,217
310,370	3397,437	3110,491	593,195	1711,571	-304,983	270,325	-135,162

x [m]	M_{PPo} [kN.m]	$M_{PP\infty}$ [kN.m]	M_{RCP} [kN.m]	M_{SC}^{max} [kN.m]	M_{SC}^{min} [kN.m]	M_{VDT}^{max+} [kN.m]	M_{VDT}^{min} [kN.m]
310,780	2337,863	2146,566	402,549	1150,595	-203,322	180,217	-90,108
311,190	1207,103	1111,454	204,817	580,072	-101,661	90,108	-45,054
311,600	0,000	0,000	0,000	0,000	0,000	0,000	0,000

C.1.2 Momento Fletor devido ao Pré-esforço (PE) (início de exploração e longo prazo)

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
0,000	0,000	0,000	0,000	0,000	0,000	0,000
0,410	-1980,988	-2117,878	136,890	-1725,431	-1923,660	198,230
0,820	-3901,698	-4177,601	275,903	-3392,241	-3790,666	398,425
1,230	-5761,492	-6177,240	415,748	-4998,919	-5598,197	599,278
1,640	-7559,724	-8116,156	556,432	-6543,839	-7344,469	800,630
2,050	-9295,753	-9993,707	697,954	-8025,157	-9027,440	1002,283
2,460	-10968,942	-11809,251	840,310	-9434,686	-10640,534	1205,848
2,870	-12578,646	-13562,149	983,503	-10782,367	-12190,108	1407,740
3,280	-14124,226	-15251,758	1127,532	-12061,085	-13670,325	1609,240
3,690	-15605,044	-16877,437	1272,394	-13268,192	-15078,148	1809,956
4,100	-17020,451	-18438,546	1418,095	-14403,210	-16412,980	2009,771
4,582	-18591,550	-20181,309	1589,759	-15634,622	-17879,414	2244,792
5,065	-20068,741	-21831,185	1762,444	-16825,885	-19310,425	2484,540
5,547	-21451,141	-23387,221	1936,080	-17929,661	-20654,618	2724,957
6,029	-22737,854	-24848,563	2110,709	-18947,939	-21914,383	2966,445
6,512	-23927,997	-26214,324	2286,327	-19879,990	-23088,976	3208,986
6,994	-25020,686	-27483,640	2462,954	-20722,118	-24174,198	3452,080
7,476	-26015,030	-28655,575	2640,545	-21482,053	-25179,122	3697,069
7,959	-26910,141	-29729,267	2819,126	-22156,503	-26100,085	3943,582
8,441	-27705,130	-30703,846	2998,716	-22742,846	-26934,160	4191,314
8,924	-28399,113	-31578,388	3179,275	-23242,950	-27683,666	4440,716
9,406	-28991,199	-32352,025	3360,827	-23660,377	-28353,085	4692,708
9,888	-29480,502	-33023,881	3543,379	-23991,305	-28938,116	4946,811
10,371	-29866,141	-33593,044	3726,903	-24230,440	-29432,567	5202,126
10,853	-30147,216	-34058,641	3911,425	-24387,261	-29848,207	5460,946
11,335	-30322,850	-34419,783	4096,933	-24457,375	-30180,082	5722,707

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
11,818	-30392,150	-34675,586	4283,436	-24434,652	-30420,980	5986,328
12,300	-30354,233	-34825,155	4470,922	-24322,018	-30574,839	6252,821
12,797	-30194,735	-34855,075	4660,340	-24111,604	-30636,770	6525,166
13,294	-29967,498	-34817,916	4850,417	-23839,113	-30637,712	6798,599
13,791	-29672,164	-34713,315	5041,151	-23502,259	-30574,780	7072,521
14,288	-29308,372	-34540,908	5232,537	-23108,837	-30458,243	7349,406
14,785	-28875,758	-34300,332	5424,574	-22654,494	-30282,720	7628,226
15,282	-28373,943	-33991,221	5617,278	-22132,549	-30039,412	7906,862
15,779	-27802,583	-33613,212	5810,629	-21549,703	-29737,435	8187,732
16,276	-27161,303	-33165,941	6004,638	-20906,511	-29377,936	8471,425
16,773	-26449,743	-32649,045	6199,301	-20195,425	-28950,595	8755,171
17,270	-25667,538	-32062,158	6394,620	-19418,644	-28458,562	9039,918
17,767	-24814,322	-31404,918	6590,595	-18580,599	-27908,629	9328,030
18,264	-23889,735	-30676,959	6787,224	-17674,883	-27291,660	9616,778
18,761	-22893,408	-29877,919	6984,511	-16700,651	-26606,390	9905,740
19,258	-21824,983	-29007,432	7182,449	-15661,370	-25858,498	10197,128
19,755	-20684,088	-28065,136	7381,048	-14555,312	-25045,692	10490,380
20,252	-19470,365	-27050,665	7580,300	-13378,626	-24161,568	10782,942
20,748	-18183,453	-25963,680	7780,227	-12134,008	-23210,903	11076,895
21,245	-16822,981	-24803,771	7980,790	-10822,110	-22195,502	11373,392
21,742	-15388,587	-23570,596	8182,009	-9439,019	-21107,845	11668,826
22,239	-13879,907	-22263,791	8383,884	-7986,183	-19950,706	11964,524
22,736	-12296,576	-20882,992	8586,417	-6464,431	-18726,529	12262,098
23,233	-10638,239	-19427,835	8789,596	-4872,091	-17431,096	12559,005
23,730	-8904,525	-17897,957	8993,432	-3209,445	-16064,377	12854,932
24,227	-7095,058	-16292,992	9197,934	-1477,126	-14628,351	13151,226
24,724	-5209,499	-14612,577	9403,078	324,925	-13122,099	13447,025
25,221	-3247,463	-12856,348	9608,885	2196,154	-11544,369	13740,523
25,718	-1208,598	-11023,941	9815,344	4135,882	-9896,902	14032,784
26,215	907,467	-9114,993	10022,460	6108,081	-8132,995	14241,076
26,712	3101,091	-7129,138	10230,229	8180,566	-6365,290	14545,856
27,209	5372,641	-5066,013	10438,655	10323,805	-4525,351	14849,156
27,706	7722,476	-2925,255	10647,731	12536,702	-2613,736	15150,437
28,203	10150,974	-706,498	10857,472	14817,863	-631,274	15449,137
28,700	12658,480	1590,620	11067,860	17165,578	1420,917	15744,661
29,110	14576,581	3402,077	11174,504	18945,196	3043,642	15901,554
29,520	16285,221	5006,938	11278,282	20552,918	4484,728	16068,191

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
29,930	17787,124	6406,559	11380,565	21981,150	5745,933	16235,217
30,340	19085,018	7603,665	11481,353	23233,664	6829,922	16403,742
30,750	20181,628	8600,981	11580,647	24313,519	7739,190	16574,329
31,160	21079,683	9401,233	11678,449	25201,505	8479,590	16721,915
31,570	21781,902	10007,147	11774,755	25941,141	9045,379	16895,762
31,980	22291,018	10421,446	11869,571	26512,313	9441,476	17070,838
32,390	22609,747	10646,858	11962,889	26915,031	9668,806	17246,225
32,800	22740,818	10686,108	12054,711	27148,730	9728,002	17420,728
33,210	22532,840	10541,920	11990,919	26842,753	9575,084	17267,669
33,620	22144,191	10217,021	11927,170	26374,352	9258,978	17115,373
34,030	21577,593	9714,136	11863,457	25748,970	8783,901	16965,069
34,440	20835,780	9035,990	11799,790	24972,034	8153,939	16818,095
34,850	19921,464	8185,308	11736,155	24047,179	7372,409	16674,770
35,260	18837,386	7164,817	11672,569	22998,349	6439,256	16559,092
35,670	17586,260	5977,241	11609,019	21787,493	5363,980	16423,513
36,080	16170,817	4625,306	11545,510	20437,610	4145,500	16292,110
36,490	14593,776	3111,738	11482,038	18950,205	2785,928	16164,277
36,900	12857,874	1439,261	11418,613	17337,937	1286,899	16051,038
37,356	10920,845	-468,973	11389,818	15575,815	-419,514	15995,329
37,811	9045,231	-2317,014	11362,246	13867,367	-2073,608	15940,975
38,267	7230,694	-4104,031	11334,725	12212,159	-3674,593	15886,752
38,722	5476,909	-5830,275	11307,184	10609,446	-5222,370	15831,816
39,178	3783,540	-7496,151	11279,690	9059,462	-6717,200	15776,663
39,633	2150,268	-9101,915	11252,182	7613,393	-8214,528	15827,921
40,089	576,754	-10647,968	11224,721	6165,958	-9624,663	15790,621
40,544	-937,329	-12134,570	11197,241	4768,110	-10985,679	15753,790
41,000	-2392,306	-13562,118	11169,813	3419,425	-12297,003	15716,428
41,492	-3916,010	-15108,603	11192,593	2027,244	-13718,847	15746,091
41,984	-5385,211	-16600,559	11215,348	680,503	-15095,294	15775,797
42,476	-6799,457	-18037,534	11238,077	-620,204	-16425,370	15805,166
42,968	-8158,296	-19419,076	11260,779	-1873,854	-17705,109	15831,255
43,460	-9461,273	-20744,732	11283,459	-3079,385	-18934,908	15855,523
43,952	-10707,942	-22014,050	11306,108	-4236,374	-20116,368	15879,995
44,444	-11897,837	-23226,578	11328,741	-5343,372	-21245,271	15901,899
44,936	-13030,518	-24381,862	11351,344	-6398,845	-22318,913	15920,068
45,428	-14105,526	-25479,452	11373,926	-7403,885	-23343,425	15939,540
45,920	-15122,413	-26518,894	11396,480	-8356,833	-24314,501	15957,667

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
46,412	-16080,723	-27499,735	11419,012	-9254,884	-25225,790	15970,906
46,904	-16980,009	-28421,524	11441,515	-10100,132	-26084,738	15984,606
47,396	-17819,815	-29283,809	11463,994	-10891,888	-26890,229	15998,341
47,888	-18599,686	-30086,135	11486,449	-11626,954	-27635,319	16008,365
48,380	-19319,172	-30828,052	11508,880	-12305,859	-28322,460	16016,600
48,872	-19977,819	-31509,107	11531,289	-12930,706	-28957,172	16026,467
49,364	-20575,177	-32128,848	11553,670	-13497,880	-29531,857	16033,977
49,856	-21110,796	-32686,821	11576,025	-14005,603	-30043,478	16037,875
50,348	-21584,224	-33182,575	11598,350	-14458,159	-30501,882	16043,723
50,840	-21995,002	-33615,657	11620,655	-14853,271	-30902,616	16049,345
51,332	-22342,679	-33985,615	11642,935	-15186,216	-31236,418	16050,202
51,824	-22626,803	-34291,996	11665,193	-15461,576	-31513,321	16051,745
52,316	-22846,921	-34534,348	11687,427	-15679,716	-31734,426	16054,710
52,808	-23002,590	-34712,219	11709,628	-15835,610	-31889,945	16054,335
53,300	-23093,349	-34825,155	11731,807	-15930,156	-31982,160	16052,003
53,797	-23106,880	-34855,075	11748,194	-15960,788	-32006,236	16045,448
54,294	-23053,358	-34817,916	11764,558	-15928,122	-31965,048	16036,926
54,791	-22932,410	-34713,315	11780,905	-15830,759	-31856,073	16025,314
55,288	-22743,678	-34540,908	11797,230	-15673,304	-31688,832	16015,529
55,785	-22486,796	-34300,332	11813,535	-15454,264	-31460,634	16006,370
56,282	-22161,405	-33991,221	11829,816	-15168,799	-31161,870	15993,071
56,779	-21767,134	-33613,212	11846,078	-14821,172	-30801,443	15980,271
57,276	-21303,619	-33165,941	11862,322	-14412,574	-30382,183	15969,609
57,773	-20770,507	-32649,045	11878,537	-13937,838	-29893,505	15955,667
58,270	-20167,421	-32062,158	11894,737	-13398,607	-29338,973	15940,366
58,767	-19493,999	-31404,918	11910,918	-12797,962	-28725,621	15927,659
59,264	-18749,880	-30676,959	11927,079	-12131,995	-28045,144	15913,149
59,761	-17934,703	-29877,919	11943,216	-11400,252	-27296,483	15896,231
60,258	-17048,101	-29007,432	11959,332	-10605,267	-26485,806	15880,540
60,755	-16089,711	-28065,136	11975,425	-9746,039	-25611,170	15865,131
61,252	-15059,165	-27050,665	11991,500	-8820,263	-24666,636	15846,373
61,748	-13956,104	-25963,680	12007,577	-7829,964	-23657,588	15827,624
62,245	-12780,161	-24803,771	12023,610	-6775,579	-22585,904	15810,325
62,742	-11530,972	-23570,596	12039,624	-5654,894	-21444,648	15789,754
63,239	-10208,172	-22263,791	12055,619	-4469,000	-20236,987	15767,987
63,736	-8811,403	-20882,992	12071,589	-3218,491	-18965,913	15747,421
64,233	-7340,300	-19427,835	12087,535	-1902,483	-17627,161	15724,678

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
64,730	-5794,492	-17897,957	12103,464	-521,361	-16221,194	15699,833
65,227	-4173,618	-16292,992	12119,374	924,578	-14750,427	15675,004
65,724	-2477,317	-14612,577	12135,260	2435,340	-13213,977	15649,317
66,221	-705,222	-12856,348	12151,126	4010,300	-11610,516	15620,816
66,718	1143,030	-11023,941	12166,971	5649,306	-9941,886	15591,192
67,215	3067,799	-9114,993	12182,792	7311,441	-8163,002	15474,443
67,712	5069,462	-7129,138	12198,600	9078,632	-6382,389	15461,021
68,209	7148,366	-5066,013	12214,380	10912,470	-4533,339	15445,809
68,706	9304,884	-2925,255	12230,139	12812,388	-2616,178	15428,565
69,203	11539,381	-706,498	12245,879	14777,590	-631,398	15408,988
69,700	13852,219	1590,620	12261,599	16808,135	1420,379	15387,756
70,110	15602,879	3402,077	12200,802	18334,158	3041,565	15292,592
70,520	17145,613	5006,938	12138,675	19687,934	4480,930	15207,004
70,930	18483,149	6406,559	12076,589	20865,943	5740,761	15125,182
71,340	19618,205	7603,665	12014,540	21871,599	6823,983	15047,616
71,750	20553,516	8600,981	11952,535	22707,510	7733,173	14974,337
72,160	21291,801	9401,233	11890,568	23363,999	8474,228	14889,770
72,570	21835,786	10007,147	11828,639	23864,514	9041,106	14823,408
72,980	22188,199	10421,446	11766,753	24198,150	9438,661	14759,488
73,390	22351,765	10646,858	11704,907	24364,629	9667,644	14696,985
73,800	22329,211	10686,108	11643,103	24363,216	9728,512	14634,704
74,210	22127,095	10541,920	11585,175	24112,656	9575,757	14536,900
74,620	21744,268	10217,021	11527,247	23699,199	9259,838	14439,360
75,030	21183,461	9714,136	11469,325	23127,907	8784,891	14343,016
75,440	20447,393	9035,990	11411,404	22403,495	8154,810	14248,685
75,850	19538,792	8185,308	11353,484	21530,132	7373,137	14156,994
76,260	18460,386	7164,817	11295,569	20521,784	6439,834	14081,950
76,670	17214,892	5977,241	11237,651	19360,525	5364,391	13996,133
77,080	15805,044	4625,306	11179,738	18059,204	4145,752	13913,452
77,490	14233,567	3111,738	11121,829	16619,454	2786,045	13833,408
77,900	12503,179	1439,261	11063,918	15048,981	1286,925	13762,056
78,356	10570,930	-468,973	11039,903	13326,847	-419,511	13746,358
78,811	8700,073	-2317,014	11017,087	11658,355	-2073,545	13731,901
79,267	6890,276	-4104,031	10994,308	10042,869	-3674,319	13717,188
79,722	5141,212	-5830,275	10971,487	8480,127	-5221,833	13701,960
80,178	3452,559	-7496,151	10948,709	6970,147	-6716,338	13686,484
80,633	1823,976	-9101,915	10925,891	5548,730	-8211,144	13759,874

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
81,089	255,140	-10647,968	10903,107	4139,382	-9620,165	13759,547
81,544	-1254,281	-12134,570	10880,289	2779,668	-10979,983	13759,651
82,000	-2704,620	-13562,118	10857,498	1469,271	-12290,071	13759,342
82,492	-4224,775	-15108,603	10883,827	109,974	-13710,544	13820,518
82,984	-5690,408	-16600,559	10910,151	-1203,565	-15086,024	13882,459
83,476	-7101,061	-18037,534	10936,473	-2470,706	-16414,799	13944,093
83,968	-8456,288	-19419,076	10962,788	-3690,110	-17693,284	14003,174
84,460	-9755,635	-20744,732	10989,097	-4860,933	-18921,931	14060,998
84,952	-10998,641	-22014,050	11015,408	-5982,981	-20102,283	14119,302
85,444	-12184,861	-23226,578	11041,717	-7054,536	-21230,168	14175,632
85,936	-13313,847	-24381,862	11068,015	-8073,961	-22302,890	14228,928
86,428	-14385,136	-25479,452	11094,316	-9042,922	-23326,621	14283,699
86,920	-15398,287	-26518,894	11120,607	-9959,463	-24296,995	14337,531
87,412	-16352,834	-27499,735	11146,901	-10820,458	-25207,696	14387,238
87,904	-17248,342	-28421,524	11173,183	-11628,561	-26066,189	14437,628
88,396	-18084,343	-29283,809	11199,465	-12383,026	-26871,324	14488,298
88,888	-18860,389	-30086,135	11225,746	-13080,320	-27616,171	14535,851
89,380	-19576,032	-30828,052	11252,021	-13721,169	-28303,182	14582,013
89,872	-20230,819	-31509,107	11278,288	-14307,983	-28937,872	14629,888
90,364	-20824,288	-32128,848	11304,560	-14836,797	-29512,640	14675,844
90,856	-21355,999	-32686,821	11330,822	-15305,747	-30024,446	14718,699
91,348	-21825,495	-33182,575	11357,080	-15719,567	-30483,115	14763,548
91,840	-22232,323	-33615,657	11383,334	-16075,814	-30884,220	14808,406
92,332	-22576,030	-33985,615	11409,584	-16369,414	-31218,477	14849,064
92,824	-22856,161	-34291,996	11435,835	-16605,356	-31495,887	14890,531
93,316	-23072,272	-34534,348	11462,076	-16784,079	-31717,598	14933,519
93,808	-23223,906	-34712,219	11488,313	-16900,198	-31873,790	14973,592
94,300	-23310,605	-34825,155	11514,550	-16954,707	-31966,702	15011,994
94,797	-23319,910	-34855,075	11535,164	-16944,546	-31991,584	15047,037
95,294	-23262,147	-34817,916	11555,769	-16870,865	-31951,246	15080,382
95,791	-23136,941	-34713,315	11576,374	-16732,210	-31843,159	15110,948
96,288	-22943,932	-34540,908	11596,976	-16533,450	-31676,799	15143,349
96,785	-22682,759	-34300,332	11617,573	-16273,047	-31449,539	15176,493
97,282	-22353,055	-33991,221	11638,166	-15945,893	-31151,727	15205,834
97,779	-21954,456	-33613,212	11658,756	-15556,478	-30792,224	15235,746
98,276	-21486,602	-33165,941	11679,340	-15106,088	-30373,921	15267,833
98,773	-20949,122	-32649,045	11699,922	-14589,285	-29886,189	15296,904

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
99,270	-20341,663	-32062,158	11720,495	-14007,814	-29332,584	15324,770
99,767	-19663,851	-31404,918	11741,066	-13364,883	-28720,106	15355,222
100,264	-18915,323	-30676,959	11761,636	-12656,439	-28040,497	15384,057
100,761	-18095,713	-29877,919	11782,205	-11882,004	-27292,662	15410,658
101,258	-17204,668	-29007,432	11802,764	-11044,216	-26482,744	15438,529
101,755	-16241,817	-28065,136	11823,319	-10142,058	-25608,831	15466,774
102,252	-15206,795	-27050,665	11843,870	-9173,121	-24664,959	15491,838
102,748	-14099,236	-25963,680	11864,444	-8139,519	-23656,493	15516,975
103,245	-12918,784	-24803,771	11884,987	-7041,720	-22585,332	15543,612
103,742	-11665,067	-23570,596	11905,529	-5877,423	-21444,522	15567,099
104,239	-10337,726	-22263,791	11926,066	-4647,775	-20237,227	15589,452
104,736	-8936,392	-20882,992	11946,600	-3353,392	-18966,435	15613,043
105,233	-7460,708	-19427,835	11967,127	-1993,372	-17627,889	15634,517
105,730	-5910,304	-17897,957	11987,652	-568,121	-16222,048	15653,927
106,227	-4284,822	-16292,992	12008,170	922,041	-14751,372	15673,412
106,724	-2583,889	-14612,577	12028,688	2477,139	-13215,079	15692,218
107,221	-807,151	-12856,348	12049,197	4096,513	-11611,636	15708,149
107,718	1045,766	-11023,941	12069,708	5779,971	-9942,907	15722,879
108,215	2975,215	-9114,993	12090,208	7484,889	-8163,075	15647,964
108,712	4981,566	-7129,138	12110,704	9296,329	-6382,406	15678,735
109,209	7065,186	-5066,013	12131,199	11174,517	-4533,334	15707,850
109,706	9226,435	-2925,255	12151,690	13118,857	-2616,167	15735,024
110,203	11465,679	-706,498	12172,177	15128,603	-631,397	15760,000
110,700	13783,277	1590,620	12192,656	17203,808	1420,385	15783,423
111,110	15538,279	3402,077	12136,202	18763,467	3041,598	15721,869
111,520	17085,316	5006,938	12078,377	20151,934	4481,008	15670,926
111,930	18427,114	6406,559	12020,554	21364,497	5740,900	15623,597
112,340	19566,399	7603,665	11962,734	22404,608	6824,195	15580,413
112,750	20505,896	8600,981	11904,915	23274,894	7733,463	15541,431
113,160	21248,329	9401,233	11847,096	23962,596	8474,591	15488,005
113,570	21796,428	10007,147	11789,282	24497,173	9041,541	15455,632
113,980	22152,914	10421,446	11731,467	24864,768	9439,157	15425,611
114,390	22320,518	10646,858	11673,659	25065,069	9668,187	15396,882
114,800	22301,959	10686,108	11615,851	25097,283	9729,084	15368,199
115,210	22100,144	10541,920	11558,224	24831,875	9576,382	15255,493
115,620	21717,616	10217,021	11500,595	24403,581	9260,453	15143,128
116,030	21157,102	9714,136	11442,967	23817,615	8785,473	15032,142

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
116,440	20421,330	9035,990	11385,341	23078,729	8155,339	14923,390
116,850	19513,021	8185,308	11327,713	22191,115	7373,594	14817,521
117,260	18434,903	7164,817	11270,086	21171,963	6440,209	14731,754
117,670	17189,703	5977,241	11212,461	19996,842	5364,667	14632,175
118,080	15780,140	4625,306	11154,833	18681,894	4145,927	14535,967
118,490	14208,948	3111,738	11097,210	17228,727	2786,129	14442,597
118,900	12478,846	1439,261	11039,584	15646,672	1286,944	14359,727
119,356	10546,817	-468,973	11015,790	13913,026	-419,509	14332,535
119,811	8676,185	-2317,014	10993,199	12233,141	-2073,495	14306,636
120,267	6866,609	-4104,031	10970,640	10606,333	-3674,155	14280,489
120,722	5117,769	-5830,275	10948,044	9032,366	-5221,502	14253,868
121,178	3429,331	-7496,151	10925,481	7511,243	-6715,792	14227,035
121,633	1800,967	-9101,915	10902,881	6084,698	-8213,681	14298,379
122,089	232,352	-10647,968	10880,319	4664,589	-9623,554	14288,144
122,544	-1276,854	-12134,570	10857,716	3294,022	-10984,273	14278,294
123,000	-2726,970	-13562,118	10835,148	1972,677	-12295,288	14267,964
123,492	-4246,998	-15108,603	10861,604	603,689	-13716,788	14320,477
123,984	-5712,498	-16600,559	10888,060	-719,660	-15093,254	14373,595
124,476	-7123,020	-18037,534	10914,514	-1996,739	-16422,975	14426,236
124,968	-8478,115	-19419,076	10940,960	-3226,260	-17702,349	14476,089
125,460	-9777,325	-20744,732	10967,407	-4407,315	-18931,820	14524,506
125,952	-11020,198	-22014,050	10993,852	-5539,640	-20112,915	14573,274
126,444	-12206,287	-23226,578	11020,291	-6621,574	-21241,453	14619,878
126,936	-13335,133	-24381,862	11046,729	-7651,504	-22314,735	14663,231
127,428	-14406,285	-25479,452	11073,167	-8630,946	-23338,931	14707,985
127,920	-15419,296	-26518,894	11099,597	-9558,010	-24309,668	14751,658
128,412	-16373,710	-27499,735	11126,026	-10429,650	-25220,631	14790,981
128,904	-17269,067	-28421,524	11152,457	-11248,381	-26079,289	14830,908
129,396	-18104,929	-29283,809	11178,880	-12013,465	-26884,488	14871,023
129,888	-18880,838	-30086,135	11205,297	-12721,458	-27629,304	14907,846
130,380	-19596,336	-30828,052	11231,717	-13373,036	-28316,192	14943,155
130,872	-20250,977	-31509,107	11258,131	-13970,533	-28950,671	14980,138
131,364	-20844,308	-32128,848	11284,540	-14510,076	-29525,146	15015,071
131,856	-21375,870	-32686,821	11310,951	-14989,819	-30036,581	15046,763
132,348	-21845,218	-33182,575	11337,357	-15414,392	-30494,808	15080,416
132,840	-22251,897	-33615,657	11363,759	-15781,399	-30895,406	15114,006
133,332	-22595,457	-33985,615	11390,157	-16085,851	-31229,096	15143,245

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
133,824	-22875,444	-34291,996	11416,552	-16332,639	-31505,884	15173,245
134,316	-23091,399	-34534,348	11442,949	-16522,195	-31726,932	15204,737
134,808	-23242,881	-34712,219	11469,338	-16649,222	-31882,420	15233,198
135,300	-23329,436	-34825,155	11495,720	-16714,691	-31974,592	15259,902
135,797	-23338,575	-34855,075	11516,499	-16715,684	-31998,708	15283,024
136,294	-23280,646	-34817,916	11537,270	-16653,211	-31957,586	15304,375
136,791	-23155,271	-34713,315	11558,044	-16525,833	-31848,704	15322,871
137,288	-22962,101	-34540,908	11578,807	-16338,356	-31681,542	15343,186
137,785	-22700,757	-34300,332	11599,574	-16089,268	-31453,488	15364,220
138,282	-22370,889	-33991,221	11620,332	-15773,522	-31154,893	15381,370
138,779	-21972,121	-33613,212	11641,091	-15395,554	-30794,622	15399,069
139,276	-21504,100	-33165,941	11661,841	-14956,647	-30375,580	15418,933
139,773	-20966,450	-32649,045	11682,595	-14451,416	-29887,142	15435,726
140,270	-20358,819	-32062,158	11703,339	-13881,588	-29332,869	15451,282
140,767	-19680,834	-31404,918	11724,083	-13250,346	-28719,768	15469,423
141,264	-18932,137	-30676,959	11744,822	-12553,678	-28039,590	15485,912
141,761	-18112,354	-29877,919	11765,565	-11791,102	-27291,244	15500,141
142,258	-17221,136	-29007,432	11786,296	-10965,245	-26480,875	15515,630
142,755	-16258,109	-28065,136	11807,026	-10075,094	-25606,581	15531,487
143,252	-15222,913	-27050,665	11827,752	-9118,256	-24662,399	15544,143
143,748	-14115,180	-25963,680	11848,500	-8096,830	-23653,698	15556,868
144,245	-12934,550	-24803,771	11869,221	-7011,279	-22582,378	15571,099
144,742	-11680,657	-23570,596	11889,939	-5859,310	-21441,487	15582,178
145,239	-10353,139	-22263,791	11910,652	-4642,053	-20234,188	15592,135
145,736	-8951,630	-20882,992	11931,362	-3360,127	-18963,467	15603,340
146,233	-7475,766	-19427,835	11952,070	-2012,613	-17625,064	15612,451
146,730	-5925,183	-17897,957	11972,774	-599,908	-16219,433	15619,524
147,227	-4299,517	-16292,992	11993,475	877,682	-14749,033	15626,716
147,724	-2598,408	-14612,577	12014,169	2420,210	-13213,104	15633,314
148,221	-821,482	-12856,348	12034,867	4027,039	-11610,034	15637,073
148,718	1031,613	-11023,941	12055,554	5697,991	-9941,676	15639,668
149,215	2961,247	-9114,993	12076,239	7391,211	-8162,443	15553,654
149,712	4967,783	-7129,138	12096,921	9190,239	-6382,008	15572,247
150,209	7051,589	-5066,013	12117,602	11056,064	-4533,127	15589,190
150,706	9213,021	-2925,255	12138,276	12988,107	-2616,096	15604,203
151,203	11452,448	-706,498	12158,946	14985,649	-631,393	15617,042
151,700	13770,236	1590,620	12179,616	17048,754	1420,407	15628,347

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
152,110	15525,470	3402,077	12123,393	18599,610	3041,695	15557,915
152,520	17072,740	5006,938	12065,802	19978,941	4481,214	15497,726
152,930	18414,766	6406,559	12008,206	21182,374	5741,231	15441,143
153,340	19554,281	7603,665	11950,616	22213,342	6824,652	15388,690
153,750	20494,006	8600,981	11893,024	23074,454	7734,038	15340,417
154,160	21236,666	9401,233	11835,433	23753,869	8475,257	15278,613
154,570	21784,988	10007,147	11777,842	24279,245	9042,284	15236,960
154,980	22141,696	10421,446	11720,249	24637,606	9439,954	15197,652
155,390	22309,520	10646,858	11662,661	24828,650	9669,011	15159,639
155,800	22291,180	10686,108	11605,072	24851,603	9729,907	15121,696
156,210	22089,845	10541,920	11547,924	24592,898	9577,187	15015,712
156,620	21707,794	10217,021	11490,773	24171,175	9261,210	14909,966
157,030	21147,754	9714,136	11433,618	23591,643	8786,158	14805,486
157,440	20412,448	9035,990	11376,459	22859,046	8155,932	14703,114
157,850	19504,604	8185,308	11319,296	21977,575	7374,081	14603,495
158,260	18426,944	7164,817	11262,127	20963,492	6440,588	14522,905
158,670	17182,198	5977,241	11204,956	19794,271	5364,930	14429,341
159,080	15773,089	4625,306	11147,782	18485,106	4146,084	14339,021
159,490	14202,342	3111,738	11090,604	17037,624	2786,200	14251,424
159,900	12472,684	1439,261	11033,422	15460,710	1286,959	14173,750
160,356	10541,121	-468,973	11010,094	13732,353	-419,508	14151,861
160,811	8670,949	-2317,014	10987,963	12057,822	-2073,462	14131,284
161,267	6861,838	-4104,031	10965,869	10436,427	-3674,061	14110,488
161,722	5113,456	-5830,275	10943,731	8867,912	-5221,333	14089,245
162,178	3425,480	-7496,151	10921,631	7352,266	-6715,547	14067,813
162,633	1797,571	-9101,915	10899,486	5929,974	-8213,133	14143,107
163,089	229,407	-10647,968	10877,374	4515,240	-9622,900	14138,140
163,544	-1279,342	-12134,570	10855,228	3150,048	-10983,549	14133,596
164,000	-2729,013	-13562,118	10833,106	1834,073	-12294,539	14128,612
164,492	-4248,560	-15108,603	10860,043	470,271	-13716,075	14186,345
164,984	-5713,579	-16600,559	10886,979	-847,882	-15092,625	14244,743
165,476	-7123,622	-18037,534	10913,912	-2119,751	-16422,499	14302,748
165,968	-8478,229	-19419,076	10940,846	-3344,037	-17702,100	14358,063
166,460	-9776,953	-20744,732	10967,778	-4519,849	-18931,872	14412,022
166,952	-11019,340	-22014,050	10994,710	-5646,942	-20113,341	14466,399
167,444	-12204,934	-23226,578	11021,644	-6723,638	-21242,328	14518,690
167,936	-13333,289	-24381,862	11048,573	-7748,320	-22316,129	14567,809

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
168,428	-14403,946	-25479,452	11075,506	-8722,534	-23340,911	14618,377
168,920	-15416,457	-26518,894	11102,436	-9644,375	-24312,297	14667,922
169,412	-16370,367	-27499,735	11129,369	-10510,774	-25223,966	14713,193
169,904	-17265,226	-28421,524	11156,298	-11324,276	-26083,382	14759,106
170,396	-18100,583	-29283,809	11183,226	-12084,135	-26889,385	14805,250
170,888	-18875,981	-30086,135	11210,155	-12786,886	-27635,045	14848,159
171,380	-19590,971	-30828,052	11237,081	-13433,212	-28322,809	14889,597
171,872	-20245,100	-31509,107	11264,007	-14025,454	-28958,190	14932,737
172,364	-20837,912	-32128,848	11290,935	-14559,719	-29533,586	14973,867
172,856	-21368,961	-32686,821	11317,860	-15034,157	-30045,952	15011,795
173,348	-21837,788	-33182,575	11344,787	-15453,404	-30505,113	15051,709
173,840	-22243,948	-33615,657	11371,709	-15815,053	-30906,642	15091,589
174,332	-22586,980	-33985,615	11398,635	-16114,105	-31241,253	15127,148
174,824	-22866,438	-34291,996	11425,558	-16355,451	-31518,942	15163,490
175,316	-23081,870	-34534,348	11452,478	-16539,521	-31740,863	15201,341
175,808	-23232,819	-34712,219	11479,400	-16661,006	-31897,192	15236,186
176,300	-23318,836	-34825,155	11506,319	-16720,871	-31990,163	15269,292
176,797	-23327,442	-34855,075	11527,633	-16716,144	-32015,035	15298,891
177,294	-23268,970	-34817,916	11548,946	-16647,885	-31974,613	15326,729
177,791	-23143,063	-34713,315	11570,252	-16514,654	-31866,364	15351,710
178,288	-22949,345	-34540,908	11591,564	-16321,245	-31699,765	15378,520
178,785	-22687,464	-34300,332	11612,868	-16066,142	-31472,194	15406,052
179,282	-22357,047	-33991,221	11634,174	-15744,303	-31173,996	15429,693
179,779	-21957,734	-33613,212	11655,478	-15360,153	-30814,031	15453,878
180,276	-21489,162	-33165,941	11676,780	-14914,962	-30395,196	15480,234
180,773	-20950,964	-32649,045	11698,081	-14403,363	-29906,860	15503,497
181,270	-20342,778	-32062,158	11719,381	-13827,072	-29352,582	15525,510
181,767	-19664,240	-31404,918	11740,678	-13189,259	-28739,361	15550,102
182,264	-18914,983	-30676,959	11761,976	-12485,925	-28058,946	15573,021
182,761	-18094,648	-29877,919	11783,271	-11716,599	-27310,243	15593,643
183,258	-17202,867	-29007,432	11804,565	-10883,886	-26499,396	15615,511
183,755	-16239,278	-28065,136	11825,858	-9986,783	-25624,503	15637,720
184,252	-15203,520	-27050,665	11847,145	-9022,927	-24679,600	15656,673
184,748	-14095,218	-25963,680	11868,462	-7994,402	-23670,061	15675,659
185,245	-12914,022	-24803,771	11889,749	-6901,672	-22597,790	15696,118
185,742	-11659,558	-23570,596	11911,038	-5742,488	-21455,842	15713,354
186,239	-10331,471	-22263,791	11932,321	-4517,985	-20247,390	15729,405

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
186,736	-8929,385	-20882,992	11953,607	-3228,775	-18975,433	15746,658
187,233	-7452,946	-19427,835	11974,890	-1873,991	-17635,725	15761,734
187,730	-5901,785	-17897,957	11996,172	-454,056	-16228,739	15774,683
188,227	-4275,544	-16292,992	12017,448	1030,715	-14756,964	15787,679
188,724	-2573,849	-14612,577	12038,728	2580,339	-13219,669	15800,008
189,221	-796,346	-12856,348	12060,002	4194,118	-11615,257	15809,375
189,718	1057,334	-11023,941	12081,275	5871,851	-9945,620	15817,471
190,215	2987,557	-9114,993	12102,549	7570,454	-8165,004	15735,458
190,712	4994,682	-7129,138	12123,820	9375,955	-6383,604	15759,559
191,209	7079,076	-5066,013	12145,090	11247,968	-4533,947	15781,915
191,706	9241,099	-2925,255	12166,354	13185,866	-2616,373	15802,239
192,203	11481,123	-706,498	12187,621	15188,881	-631,410	15820,291
192,700	13799,505	1590,620	12208,884	17257,035	1420,323	15836,712
193,110	15555,050	3402,077	12152,973	18810,493	3041,324	15769,168
193,520	17102,625	5006,938	12095,687	20192,945	4480,435	15712,510
193,930	18444,956	6406,559	12038,397	21399,621	5739,991	15659,631
194,340	19584,769	7603,665	11981,103	22433,995	6822,950	15611,045
194,750	20524,787	8600,981	11923,806	23298,703	7731,911	15566,792
195,160	21267,736	9401,233	11866,503	23981,058	8472,808	15508,249
195,570	21816,344	10007,147	11809,198	24510,419	9039,565	15470,855
195,980	22173,335	10421,446	11751,889	24872,962	9437,057	15435,905
196,390	22341,435	10646,858	11694,576	25068,366	9666,035	15402,331
196,800	22323,368	10686,108	11637,260	25095,839	9726,955	15368,884
197,210	22120,347	10541,920	11578,427	24825,470	9574,326	15251,144
197,620	21736,631	10217,021	11519,610	24392,406	9258,535	15133,871
198,030	21174,937	9714,136	11460,801	23801,859	8783,753	15018,105
198,440	20437,998	9035,990	11402,009	23058,559	8153,866	14904,693
198,850	19528,531	8185,308	11343,223	22166,679	7372,399	14794,279
199,260	18449,268	7164,817	11284,451	21143,143	6439,292	14703,851
199,670	17202,929	5977,241	11225,688	19963,965	5364,039	14599,925
200,080	15792,247	4625,306	11166,941	18645,023	4145,559	14499,464
200,490	14219,941	3111,738	11108,203	17187,889	2785,967	14401,922
200,900	12488,733	1439,261	11049,472	15601,713	1286,910	14314,803
201,356	10555,527	-468,973	11024,500	13863,313	-419,512	14282,826
201,811	8683,716	-2317,014	11000,730	12178,467	-2073,564	14252,031
202,267	6872,977	-4104,031	10977,008	10546,548	-3674,339	14220,888
202,722	5122,969	-5830,275	10953,244	8967,363	-5221,812	14189,175

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
203,178	3433,370	-7496,151	10929,521	7440,960	-6716,200	14157,160
203,633	1803,851	-9101,915	10905,765	6008,622	-8214,182	14222,804
204,089	234,080	-10647,968	10882,048	4583,078	-9624,031	14207,109
204,544	-1276,266	-12134,570	10858,304	3207,095	-10984,622	14191,717
205,000	-2727,527	-13562,118	10834,591	1880,379	-12295,388	14175,767
205,492	-4248,791	-15108,603	10859,812	505,227	-13716,464	14221,691
205,984	-5715,534	-16600,559	10885,024	-824,240	-15092,237	14267,996
206,476	-7127,304	-18037,534	10910,230	-2107,355	-16421,053	14313,698
206,968	-8483,650	-19419,076	10935,425	-3342,798	-17699,308	14356,510
207,460	-9784,120	-20744,732	10960,612	-4529,662	-18927,445	14397,783
207,952	-11028,263	-22014,050	10985,787	-5667,691	-20106,996	14439,305
208,444	-12215,619	-23226,578	11010,959	-6755,203	-21233,789	14478,586
208,936	-13345,745	-24381,862	11036,117	-7790,573	-22305,135	14514,563
209,428	-14418,183	-25479,452	11061,269	-8775,368	-23327,217	14551,849
209,920	-15432,484	-26518,894	11086,410	-9707,684	-24295,678	14587,994
210,412	-16388,191	-27499,735	11111,544	-10584,446	-25204,219	14619,773
210,904	-17284,857	-28421,524	11136,668	-11408,235	-26060,326	14652,091
211,396	-18122,026	-29283,809	11161,782	-12178,322	-26862,867	14684,545
211,888	-18899,247	-30086,135	11186,888	-12891,235	-27604,937	14713,702
212,380	-19616,067	-30828,052	11211,985	-13547,687	-28289,009	14741,322
212,872	-20272,034	-31509,107	11237,074	-14150,067	-28920,629	14770,562
213,364	-20866,696	-32128,848	11262,151	-14694,472	-29492,219	14797,747
213,856	-21399,599	-32686,821	11287,222	-15179,056	-30000,766	14821,710
214,348	-21870,291	-33182,575	11312,283	-15608,535	-30456,121	14847,586
214,840	-22278,325	-33615,657	11337,332	-15980,507	-30853,890	14873,382
215,332	-22623,239	-33985,615	11362,376	-16289,936	-31184,815	14894,879
215,824	-22904,587	-34291,996	11387,409	-16541,803	-31458,920	14917,117
216,316	-23121,915	-34534,348	11412,433	-16736,575	-31677,392	14940,817
216,808	-23274,769	-34712,219	11437,450	-16868,898	-31830,434	14961,536
217,300	-23362,700	-34825,155	11462,456	-16939,776	-31920,307	14980,530
217,797	-23373,226	-34855,075	11481,849	-16946,336	-31942,277	14995,940
218,294	-23316,681	-34817,916	11501,235	-16889,577	-31899,206	15009,629
218,791	-23192,704	-34713,315	11520,611	-16768,058	-31788,591	15020,533
219,288	-23000,927	-34540,908	11539,981	-16586,677	-31619,931	15033,254
219,785	-22740,989	-34300,332	11559,343	-16343,925	-31390,639	15046,714
220,282	-22412,527	-33991,221	11578,694	-16034,677	-31091,080	15056,404
220,779	-22015,172	-33613,212	11598,040	-15663,465	-30730,140	15066,675

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
221,276	-21548,565	-33165,941	11617,376	-15231,614	-30310,739	15079,125
221,773	-21012,342	-32649,045	11636,703	-14733,646	-29822,268	15088,622
222,270	-20406,134	-32062,158	11656,024	-14171,326	-29268,304	15096,977
222,767	-19729,580	-31404,918	11675,338	-13547,924	-28655,862	15107,938
223,264	-18982,317	-30676,959	11694,642	-12859,337	-27976,703	15117,366
223,761	-18163,981	-29877,919	11713,938	-12105,068	-27229,743	15124,675
224,258	-17274,208	-29007,432	11733,224	-11287,809	-26421,133	15133,324
224,755	-16312,630	-28065,136	11752,505	-10406,518	-25548,965	15142,446
225,252	-15278,886	-27050,665	11771,779	-9458,706	-24607,272	15148,566
225,748	-14172,617	-25963,680	11791,064	-8446,521	-23601,415	15154,894
226,245	-12993,450	-24803,771	11810,321	-7370,432	-22533,274	15162,842
226,742	-11741,026	-23570,596	11829,570	-6227,995	-21395,874	15167,879
227,239	-10414,984	-22263,791	11848,808	-5020,348	-20192,347	15171,999
227,736	-9014,953	-20882,992	11868,040	-3748,108	-18925,641	15177,534
228,233	-7540,572	-19427,835	11887,264	-2410,211	-17591,442	15181,231
228,730	-5991,479	-17897,957	11906,478	-1006,982	-16190,146	15183,165
229,227	-4367,307	-16292,992	11925,684	461,307	-14724,175	15185,482
229,724	-2667,696	-14612,577	11944,881	1994,822	-13192,633	15187,455
230,221	-892,274	-12856,348	11964,074	3593,098	-11593,825	15186,923
230,718	959,313	-11023,941	11983,255	5256,028	-9929,499	15185,527
231,215	2887,433	-9114,993	12002,425	6946,535	-8156,502	15103,037
231,712	4892,453	-7129,138	12021,591	8738,508	-6378,296	15116,804
232,209	6974,737	-5066,013	12040,750	10597,946	-4531,215	15129,161
232,706	9134,640	-2925,255	12059,895	12524,378	-2615,444	15139,821
233,203	11372,536	-706,498	12079,034	14517,241	-631,355	15148,596
233,700	13688,786	1590,620	12098,166	16576,678	1420,606	15156,072
234,110	15443,256	3402,077	12041,180	18128,002	3042,569	15085,433
234,520	16989,770	5006,938	11982,831	19506,626	4483,052	15023,573
234,930	18331,056	6406,559	11924,497	20709,052	5744,161	14964,891
235,340	19469,838	7603,665	11866,173	21738,610	6828,678	14909,932
235,750	20408,843	8600,981	11807,861	22597,847	7739,075	14858,773
236,160	21150,794	9401,233	11749,561	23276,590	8481,061	14795,529
236,570	21698,416	10007,147	11691,269	23799,112	9048,740	14750,372
236,980	22054,436	10421,446	11632,989	24154,143	9446,839	14707,305
237,390	22221,577	10646,858	11574,719	24341,418	9676,089	14665,329
237,800	22202,574	10686,108	11516,466	24360,335	9736,989	14623,347
238,210	22005,845	10541,920	11463,924	24130,102	9584,059	14546,043

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
238,620	21628,361	10217,021	11411,340	23736,063	9267,642	14468,421
239,030	21072,845	9714,136	11358,710	23183,436	8791,947	14391,490
239,440	20342,022	9035,990	11306,032	22476,992	8160,915	14316,077
239,850	19438,617	8185,308	11253,309	21620,974	7378,143	14242,832
240,260	18365,360	7164,817	11200,543	20630,546	6443,723	14186,822
240,670	17124,973	5977,241	11147,732	19485,692	5367,091	14118,602
241,080	15720,179	4625,306	11094,873	18200,460	4147,362	14053,098
241,490	14153,709	3111,738	11041,971	16776,607	2786,769	13989,838
241,900	12428,286	1439,261	10989,024	15222,650	1287,080	13935,570
242,356	10501,227	-468,973	10970,200	13519,394	-419,496	13938,890
242,811	8635,543	-2317,014	10952,557	11870,600	-2073,209	13943,810
243,267	6830,902	-4104,031	10934,933	10275,399	-3673,355	13948,754
243,722	5086,974	-5830,275	10917,249	8733,447	-5220,107	13953,554
244,178	3403,428	-7496,151	10899,579	7244,573	-6713,850	13958,422
244,633	1779,937	-9101,915	10881,852	5848,215	-8210,590	14058,805
245,089	216,171	-10647,968	10864,138	4460,596	-9620,342	14080,938
245,544	-1288,200	-12134,570	10846,370	3122,446	-10981,419	14103,864
246,000	-2733,506	-13562,118	10828,613	1833,335	-12293,364	14126,699
246,492	-4248,364	-15108,603	10860,239	498,367	-13716,571	14214,939
246,984	-5708,673	-16600,559	10891,885	-791,074	-15095,195	14304,121
247,476	-7113,977	-18037,534	10923,557	-2034,377	-16427,800	14393,423
247,968	-8463,824	-19419,076	10955,251	-3230,307	-17710,804	14480,497
248,460	-9757,764	-20744,732	10986,968	-4377,997	-18944,644	14566,647
248,952	-10995,344	-22014,050	11018,706	-5477,206	-20130,843	14653,637
249,444	-12176,112	-23226,578	11050,466	-6526,284	-21265,193	14738,909
249,936	-13299,612	-24381,862	11082,251	-7523,633	-22344,957	14821,325
250,428	-14365,396	-25479,452	11114,056	-8470,713	-23376,248	14905,535
250,920	-15373,009	-26518,894	11145,884	-9365,636	-24354,667	14989,031
251,412	-16322,000	-27499,735	11177,735	-10205,380	-25273,830	15068,450
251,904	-17211,916	-28421,524	11209,608	-10992,343	-26141,120	15148,777
252,396	-18042,304	-29283,809	11241,504	-11725,761	-26955,362	15229,601
252,888	-18812,715	-30086,135	11273,421	-12402,211	-27709,542	15307,331
253,380	-19522,691	-30828,052	11305,362	-13022,278	-28406,013	15383,735
253,872	-20171,782	-31509,107	11337,325	-13588,181	-29050,281	15462,100
254,364	-20759,538	-32128,848	11369,309	-14096,079	-29634,647	15538,568
254,856	-21285,505	-32686,821	11401,316	-14544,124	-30156,000	15611,876
255,348	-21749,230	-33182,575	11433,344	-14936,694	-30624,056	15687,362

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
255,840	-22150,261	-33615,657	11465,396	-15271,433	-31034,397	15762,963
256,332	-22488,143	-33985,615	11497,472	-15543,448	-31377,630	15834,182
256,824	-22762,428	-34291,996	11529,568	-15757,357	-31663,644	15906,287
257,316	-22972,664	-34534,348	11561,684	-15913,531	-31893,602	15980,072
257,808	-23118,394	-34712,219	11593,825	-16006,797	-32057,576	16050,779
258,300	-23199,167	-34825,155	11625,988	-16038,021	-32157,729	16119,708
258,797	-23202,521	-34855,075	11652,554	-16003,980	-32189,279	16185,299
259,294	-23138,779	-34817,916	11679,136	-15905,916	-32154,966	16249,050
259,791	-23007,576	-34713,315	11705,739	-15742,395	-32052,156	16309,761
260,288	-22808,552	-34540,908	11732,357	-15517,894	-31890,232	16372,338
260,785	-22541,342	-34300,332	11758,990	-15230,938	-31666,570	16435,632
261,282	-22205,578	-33991,221	11785,642	-14876,715	-31371,426	16494,711
261,779	-21800,902	-33613,212	11812,310	-14459,342	-31013,586	16554,244
262,276	-21326,946	-33165,941	11838,996	-13979,967	-30595,928	16615,961
262,773	-20783,346	-32649,045	11865,699	-13433,537	-30107,757	16674,220
263,270	-20169,742	-32062,158	11892,417	-12821,644	-29552,587	16730,943
263,767	-19485,766	-31404,918	11919,152	-12147,178	-28937,383	16790,205
264,264	-18731,052	-30676,959	11945,907	-11406,444	-28253,862	16847,419
264,761	-17905,244	-29877,919	11972,675	-10599,042	-27500,910	16901,869
265,258	-17007,972	-29007,432	11999,460	-9727,348	-26684,682	16957,334
265,755	-16038,871	-28065,136	12026,265	-8790,450	-25803,238	17012,788
266,252	-14997,582	-27050,665	12053,083	-7786,349	-24850,651	17064,301
266,748	-13883,739	-25963,680	12079,941	-6716,958	-23832,360	17115,402
267,245	-12696,974	-24803,771	12106,797	-5582,688	-22750,255	17167,567
267,742	-11436,928	-23570,596	12133,668	-4381,838	-21597,498	17215,660
268,239	-10103,235	-22263,791	12160,556	-3115,522	-20377,357	17261,835
268,736	-8695,530	-20882,992	12187,462	-1784,323	-19092,995	17308,671
269,233	-7213,453	-19427,835	12214,382	-387,881	-17740,240	17352,359
269,730	-5656,639	-17897,957	12241,318	1073,126	-16319,792	17392,918
270,227	-4024,717	-16292,992	12268,275	2598,381	-14834,752	17433,133
270,724	-2317,332	-14612,577	12295,245	4187,411	-13283,800	17471,211
271,221	-534,116	-12856,348	12322,232	5838,971	-11666,092	17505,062
271,718	1325,297	-11023,941	12349,239	7552,645	-9983,876	17536,521
272,215	3261,265	-9114,993	12376,258	9327,719	-8237,898	17565,616
272,712	5274,156	-7129,138	12403,294	11161,984	-6428,099	17590,084
273,209	7364,336	-5066,013	12430,350	13016,172	-4542,849	17559,021
273,706	9532,165	-2925,255	12457,420	14979,410	-2619,357	17598,767

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
274,203	11778,007	-706,498	12484,505	17003,710	-631,586	17635,296
274,700	14102,231	1590,620	12511,610	19088,335	1419,413	17668,921
275,110	15860,722	3402,077	12458,645	20641,771	3037,330	17604,441
275,520	17411,204	5006,938	12404,266	22029,090	4472,034	17557,056
275,930	18756,400	6406,559	12349,841	23242,192	5726,605	17515,587
276,340	19899,034	7603,665	12295,369	24284,974	6804,561	17480,413
276,750	20841,835	8600,981	12240,854	25160,341	7708,915	17451,426
277,160	21587,525	9401,233	12186,291	25849,263	8446,316	17402,948
277,570	22138,832	10007,147	12131,686	26393,991	9010,110	17383,882
277,980	22498,477	10421,446	12077,030	26774,801	9405,871	17368,930
278,390	22669,193	10646,858	12022,334	26990,645	9634,214	17356,431
278,800	22653,699	10686,108	11967,591	27040,420	9695,559	17344,861
279,210	22301,428	10541,920	11759,508	26551,382	9544,386	17006,996
279,620	21769,926	10217,021	11552,905	25904,569	9231,044	16673,525
280,030	21061,922	9714,136	11347,786	25104,978	8759,530	16345,447
280,440	20180,135	9035,990	11144,145	24157,009	8133,509	16023,500
280,850	19127,293	8185,308	10941,985	23064,395	7356,244	15708,151
281,260	17906,121	7164,817	10741,304	21848,933	6427,199	15421,734
281,670	16519,349	5977,241	10542,107	20475,102	5355,999	15119,102
282,080	14969,696	4625,306	10344,390	18963,718	4141,000	14822,717
282,490	13259,891	3111,738	10148,153	17315,733	2784,036	14531,697
282,900	11392,658	1439,261	9953,397	15542,492	1286,527	14255,964
283,356	9305,330	-468,973	9774,303	13591,792	-419,544	14011,336
283,811	7280,037	-2317,014	9597,051	11691,700	-2074,096	13765,797
284,267	5316,442	-4104,031	9420,474	9843,166	-3675,427	13518,593
284,722	3414,218	-5830,275	9244,492	8047,013	-5222,932	13269,945
285,178	1573,033	-7496,151	9069,184	6340,617	-6755,366	13095,984
285,633	-207,437	-9101,915	8894,478	4647,077	-8212,763	12859,840
286,089	-1927,524	-10647,968	8720,444	3003,593	-9618,023	12621,616
286,544	-3587,559	-12134,570	8547,012	1411,120	-10971,467	12382,587
287,000	-5187,871	-13562,118	8374,247	-130,024	-12272,322	12142,298
287,492	-7919,263	-17386,487	9467,224	-1997,292	-15665,187	13667,895
287,984	-9804,884	-19099,847	9294,962	-3788,508	-17203,352	13414,844
288,476	-11627,526	-20749,342	9121,817	-5521,360	-18679,740	13158,379
288,968	-13386,706	-22334,494	8947,788	-7193,799	-20091,017	12897,218
289,460	-15081,944	-23854,819	8772,875	-8805,082	-21438,080	12632,998
289,952	-16712,758	-25309,838	8597,080	-10355,235	-22722,449	12367,214

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
290,444	-18278,667	-26699,069	8420,402	-11842,206	-23940,589	12098,382
290,936	-19779,189	-28022,032	8242,842	-13264,276	-25090,354	11826,078
291,428	-21213,848	-29278,244	8064,396	-14624,638	-26178,606	11553,968
291,920	-22582,158	-30467,226	7885,068	-15921,002	-27201,341	11280,338
292,412	-23883,638	-31588,496	7704,858	-17149,771	-28153,050	11003,279
292,904	-25117,811	-32641,572	7523,761	-18315,539	-29041,887	10726,348
293,396	-26284,192	-33625,975	7341,783	-19418,010	-29867,353	10449,343
293,888	-27382,302	-34541,222	7158,919	-20453,046	-30623,247	10170,201
294,380	-28411,661	-35386,833	6975,172	-21422,320	-31312,455	9890,135
294,872	-29371,787	-36162,326	6790,540	-22330,375	-31941,652	9611,277
295,364	-30262,197	-36867,222	6605,025	-23172,298	-32503,701	9331,402
295,856	-31082,412	-37501,038	6418,626	-23946,234	-32996,220	9049,986
296,348	-31831,949	-38063,293	6231,344	-24659,183	-33428,964	8769,781
296,840	-32510,332	-38553,507	6043,175	-25309,488	-33799,499	8490,011
297,332	-33117,074	-38971,198	5854,123	-25890,124	-34098,495	8208,372
297,824	-33651,699	-39315,885	5664,187	-26408,061	-34335,298	7927,237
298,316	-34113,721	-39587,088	5473,367	-26866,567	-34514,018	7647,451
298,808	-34502,665	-39784,325	5281,660	-27257,585	-34624,207	7366,622
299,300	-34818,044	-39907,115	5089,070	-27583,190	-34668,610	7085,419
299,782	-34860,061	-39735,718	4875,658	-27709,741	-34492,943	6783,202
300,265	-34779,217	-39442,587	4663,369	-27735,560	-34220,108	6484,549
300,747	-34576,535	-39028,744	4452,209	-27657,898	-33846,291	6188,393
301,229	-34253,027	-38495,204	4242,177	-27483,002	-33378,769	5895,767
301,712	-33809,711	-37842,984	4033,273	-27215,326	-32822,499	5607,173
302,194	-33247,604	-37073,086	3825,482	-26845,398	-32165,658	5320,260
302,676	-32567,723	-36186,554	3618,831	-26378,457	-31414,326	5035,869
303,159	-31771,086	-35184,392	3413,305	-25818,218	-30572,630	4754,413
303,641	-30858,708	-34067,594	3208,887	-25160,954	-29635,860	4474,905
304,124	-29831,609	-32837,221	3005,612	-24404,582	-28601,414	4196,832
304,606	-28690,803	-31494,268	2803,465	-23551,449	-27471,886	3920,437
305,088	-27437,308	-30039,723	2602,415	-22604,535	-26250,550	3646,015
305,571	-26072,141	-28474,660	2402,518	-21555,741	-24927,917	3372,176
306,053	-24596,322	-26800,067	2203,745	-20408,378	-23507,725	3099,347
306,535	-23010,862	-25016,963	2006,101	-19162,751	-21990,242	2827,492
307,018	-21316,783	-23126,324	1809,541	-17816,444	-20372,593	2556,149
307,500	-19515,099	-21129,243	1614,144	-16368,409	-18653,604	2285,196
307,910	-17892,026	-19340,325	1448,299	-15107,582	-17166,903	2059,321

x [m]	$M_{PE,0}$ [kN.m]	$M_{PE,Iso,0}$ [kN.m]	$M_{PE,Hip,0}$ [kN.m]	$M_{PE,\infty}$ [kN.m]	$M_{PE,Iso,\infty}$ [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]
308,320	-16194,008	-17477,413	1283,405	-13748,590	-15581,605	1833,015
308,730	-14421,779	-15541,244	1119,464	-12302,766	-13907,805	1605,039
309,140	-12576,075	-13532,550	956,475	-10773,851	-12149,829	1375,978
309,550	-10657,629	-11452,067	794,438	-9164,561	-10310,800	1146,239
309,960	-8667,175	-9300,529	633,354	-7482,388	-8397,148	914,761
310,370	-6605,453	-7078,672	473,218	-5718,663	-6403,701	685,038
310,780	-4473,191	-4787,229	314,037	-3882,199	-4337,821	455,622
311,190	-2271,129	-2426,935	155,806	-1975,264	-2202,022	226,759
311,600	0,000	1,475	-1,475	0,000	1,339	-1,339

C.2 Esforço Transverso

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
0,000	-2744,619	4653,798	-508,195	247,953	-1426,453	109,888	-219,776
0,410	-2552,504	4492,440	-490,913	247,953	-1403,165	109,888	-219,776
0,820	-2372,877	4330,040	-473,632	247,953	-1379,877	109,888	-219,776
1,230	-2205,740	4166,597	-456,350	247,953	-1356,589	109,888	-219,776
1,640	-2051,091	4002,112	-439,069	247,953	-1333,301	109,888	-219,776
2,050	-1908,931	3836,584	-421,787	247,953	-1272,668	109,888	-219,776
2,460	-1779,301	3670,013	-404,506	247,953	-1249,380	109,888	-219,776
2,870	-1662,242	3502,400	-387,224	247,953	-1226,092	109,888	-219,776
3,280	-1557,754	3333,744	-369,943	247,953	-1202,804	109,888	-219,776
3,690	-1465,836	3164,046	-352,661	253,832	-1142,370	109,888	-219,776
4,100	-1386,489	2993,304	-335,380	253,832	-1119,082	109,888	-219,776
4,582	-1300,535	2789,688	-315,048	253,832	-1091,684	109,888	-219,776
5,065	-1214,580	2584,824	-294,717	290,978	-1027,476	109,888	-219,776
5,547	-1128,626	2378,733	-274,386	290,978	-1000,078	109,888	-219,776
6,029	-1042,671	2171,436	-254,055	290,978	-972,681	109,888	-219,776
6,512	-956,716	1962,893	-233,724	290,978	-945,283	109,888	-219,776
6,994	-870,762	1753,143	-213,392	327,789	-881,529	109,888	-219,776
7,476	-784,807	1542,146	-193,061	327,789	-854,131	109,888	-219,776
7,959	-698,853	1329,922	-172,730	327,789	-826,734	109,888	-219,776
8,441	-612,898	1116,492	-152,399	364,145	-763,547	109,888	-219,776
8,924	-526,944	901,815	-132,068	364,145	-736,149	109,888	-219,776
9,406	-440,989	685,933	-111,737	364,145	-708,752	109,888	-219,776
9,888	-355,034	468,803	-91,405	399,934	-646,246	109,888	-219,776
10,371	-269,080	250,446	-71,074	399,934	-618,849	109,888	-219,776
10,853	-183,125	30,883	-50,743	399,934	-591,451	109,888	-219,776
11,335	-97,171	-189,927	-30,412	399,934	-564,053	109,888	-219,776
11,818	-11,216	-411,942	-10,081	435,042	-502,343	109,888	-219,776
12,300	74,738	-635,206	10,250	435,042	-474,945	109,888	-219,776
12,797	163,298	-770,830	31,198	435,042	-446,717	109,888	-219,776
13,294	251,857	-906,963	52,145	469,355	-385,084	109,888	-219,776
13,791	340,416	-1043,564	73,092	469,355	-356,856	109,888	-219,776
14,288	428,975	-1180,674	94,040	469,355	-328,629	109,888	-219,776
14,785	517,535	-1318,273	114,987	526,581	-291,838	109,888	-219,776
15,282	606,094	-1456,338	135,934	554,809	-291,838	109,888	-219,776

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
15,779	694,653	-1594,913	156,881	583,036	-291,838	109,888	-219,776
16,276	783,212	-1733,955	177,829	611,264	-291,838	109,888	-219,776
16,773	871,772	-1873,507	198,776	671,876	-260,590	109,888	-219,776
17,270	960,331	-2013,525	219,723	700,103	-260,590	109,888	-219,776
17,767	1048,890	-2154,053	240,670	728,331	-260,590	109,888	-219,776
18,264	1137,449	-2295,048	261,618	787,807	-230,590	109,888	-219,776
18,761	1226,009	-2436,553	282,565	816,035	-230,590	109,888	-219,776
19,258	1314,568	-2578,524	303,512	844,263	-230,590	109,888	-219,776
19,755	1403,127	-2721,006	324,460	902,491	-201,953	109,888	-219,776
20,252	1491,687	-2863,954	345,407	930,719	-201,953	109,888	-219,776
20,748	1580,246	-3007,412	366,354	958,946	-201,953	109,888	-219,776
21,245	1668,805	-3151,336	387,301	987,174	-201,953	109,888	-219,776
21,742	1757,364	-3295,771	408,249	1044,040	-174,791	109,888	-219,776
22,239	1845,924	-3440,694	429,196	1072,267	-174,791	109,888	-219,776
22,736	1934,483	-3586,083	450,143	1100,495	-174,791	109,888	-219,776
23,233	2023,042	-3731,982	471,090	1155,885	-149,219	109,888	-219,776
23,730	2111,601	-3878,348	492,038	1184,113	-149,219	109,888	-219,776
24,227	2200,161	-4025,224	512,985	1212,341	-149,219	109,888	-219,776
24,724	2288,720	-4172,566	533,932	1266,141	-125,349	109,888	-219,776
25,221	2377,279	-4320,419	554,880	1294,369	-125,349	109,888	-219,776
25,718	2465,838	-4468,737	575,827	1322,597	-125,349	109,888	-219,776
26,215	2554,398	-4617,567	596,774	1350,825	-125,349	109,888	-219,776
26,712	2642,957	-4766,862	617,721	1402,922	-103,295	109,888	-219,776
27,209	2731,516	-4916,668	638,669	1431,150	-103,295	109,888	-219,776
27,706	2820,075	-5066,939	659,616	1459,378	-103,295	109,888	-219,776
28,203	2908,635	-5217,722	680,563	1509,659	-83,135	109,888	-219,776
28,700	2997,194	-5368,970	701,510	1537,887	-83,135	109,888	-219,776
29,110	3074,822	-4876,304	718,792	1561,175	-83,135	109,888	-219,776
29,520	3161,583	-4388,048	736,073	1584,463	-83,135	109,888	-219,776
29,930	3257,477	-3904,223	753,355	1627,912	-66,371	109,888	-219,776
30,340	3362,504	-3424,830	770,636	1651,200	-66,371	109,888	-219,776
30,750	3476,665	-2949,868	787,918	1674,488	-66,371	109,888	-219,776
31,160	3599,958	-2479,338	805,199	1697,776	-66,371	109,888	-219,776
31,570	3732,385	-2013,240	822,481	1739,454	-66,371	109,888	-219,776
31,980	3873,944	-1551,573	839,762	1762,742	-66,371	109,888	-219,776
32,390	4024,637	-1094,338	857,044	1786,030	-66,371	109,888	-219,776
32,800	4184,463	-641,534	874,325	1809,318	-66,371	109,888	-219,776

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
33,210	-3940,006	536,718	-843,031	243,989	-1896,199	43,577	-21,789
33,620	-3789,313	977,025	-825,749	243,989	-1872,911	43,577	-21,789
34,030	-3647,754	1412,880	-808,468	243,989	-1849,623	43,577	-21,789
34,440	-3515,327	1844,324	-791,186	243,989	-1826,335	43,577	-21,789
34,850	-3392,034	2271,337	-773,905	243,989	-1785,481	43,577	-21,789
35,260	-3277,873	2693,918	-756,623	243,989	-1762,193	43,577	-21,789
35,670	-3172,846	3112,067	-739,342	243,989	-1738,905	43,577	-21,789
36,080	-3076,952	3525,785	-722,060	243,989	-1715,617	43,577	-21,789
36,490	-2990,191	3935,071	-704,779	243,989	-1673,085	43,577	-21,789
36,900	-2912,563	4339,926	-687,497	243,989	-1649,797	43,577	-21,789
37,356	-2831,384	4213,188	-668,296	243,989	-1623,921	43,577	-21,789
37,811	-2750,204	4086,933	-649,094	243,989	-1577,078	43,577	-21,789
38,267	-2669,025	3961,140	-629,892	243,989	-1551,202	43,577	-21,789
38,722	-2587,846	3835,849	-610,691	243,989	-1525,327	43,577	-21,789
39,178	-2506,666	3711,041	-591,489	243,989	-1499,451	43,577	-21,789
39,633	-2425,487	3586,714	-572,287	249,979	-1451,031	43,577	-21,789
40,089	-2344,308	3462,850	-553,086	249,979	-1425,156	43,577	-21,789
40,544	-2263,128	3339,488	-533,884	249,979	-1399,280	43,577	-21,789
41,000	-2181,949	3216,608	-514,682	249,979	-1373,405	43,577	-21,789
41,492	-2094,275	3098,940	-493,944	272,523	-1321,526	43,577	-21,789
41,984	-2006,602	2980,659	-473,207	272,523	-1293,580	43,577	-21,789
42,476	-1918,928	2861,765	-452,469	272,523	-1265,634	43,577	-21,789
42,968	-1831,254	2742,258	-431,731	296,457	-1212,523	43,577	-21,789
43,460	-1743,581	2622,158	-410,993	296,457	-1184,577	43,577	-21,789
43,952	-1655,907	2501,425	-390,255	296,457	-1156,632	43,577	-21,789
44,444	-1568,233	2380,079	-369,518	321,623	-1102,507	43,577	-21,789
44,936	-1480,560	2258,120	-348,780	321,623	-1074,562	43,577	-21,789
45,428	-1392,886	2135,548	-328,042	321,623	-1046,616	43,577	-21,789
45,920	-1305,212	2012,363	-307,304	321,623	-1018,670	43,577	-21,789
46,412	-1217,539	1888,565	-286,566	347,802	-963,696	43,577	-21,789
46,904	-1129,865	1764,175	-265,829	347,802	-935,750	43,577	-21,789
47,396	-1042,191	1639,151	-245,091	347,802	-907,805	43,577	-21,789
47,888	-954,518	1513,514	-224,353	374,831	-852,140	43,577	-21,789
48,380	-866,844	1387,263	-203,615	374,831	-824,194	43,577	-21,789
48,872	-779,170	1260,400	-182,877	374,831	-796,249	43,577	-21,789
49,364	-691,497	1132,924	-162,140	402,550	-740,117	43,577	-21,789
49,856	-603,823	1004,835	-141,402	402,550	-712,172	43,577	-21,789

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
50,348	-516,149	876,154	-120,664	402,550	-684,226	43,577	-21,789
50,840	-428,476	746,839	-99,926	402,550	-656,280	43,577	-21,789
51,332	-340,802	616,911	-79,188	430,736	-599,843	43,577	-21,789
51,824	-253,128	486,370	-58,451	430,736	-571,897	43,577	-21,789
52,316	-165,455	355,215	-37,713	430,736	-543,952	43,577	-21,789
52,808	-77,781	223,448	-16,975	459,228	-487,375	43,577	-21,789
53,300	9,893	91,068	3,763	459,228	-459,429	43,577	-21,789
53,797	98,452	-43,235	24,710	480,654	-452,628	43,577	-21,789
54,294	187,011	-178,048	45,657	537,513	-424,061	43,577	-21,789
54,791	275,570	-313,328	66,605	565,741	-424,061	43,577	-21,789
55,288	364,130	-449,117	87,552	593,969	-424,061	43,577	-21,789
55,785	452,689	-585,373	108,499	650,764	-395,732	43,577	-21,789
56,282	541,248	-722,139	129,446	678,992	-395,732	43,577	-21,789
56,779	629,807	-859,372	150,394	707,220	-395,732	43,577	-21,789
57,276	718,367	-997,114	171,341	735,448	-395,732	43,577	-21,789
57,773	806,926	-1135,323	192,288	792,005	-367,823	43,577	-21,789
58,270	895,485	-1274,043	213,235	820,232	-367,823	43,577	-21,789
58,767	984,044	-1413,228	234,183	848,460	-367,823	43,577	-21,789
59,264	1072,604	-1552,924	255,130	904,597	-340,515	43,577	-21,789
59,761	1161,163	-1693,086	276,077	932,825	-340,515	43,577	-21,789
60,258	1249,722	-1833,758	297,025	961,053	-340,515	43,577	-21,789
60,755	1338,281	-1974,919	317,972	1016,589	-313,989	43,577	-21,789
61,252	1426,841	-2116,546	338,919	1044,817	-313,989	43,577	-21,789
61,748	1515,400	-2258,683	359,866	1073,045	-313,989	43,577	-21,789
62,245	1603,959	-2401,287	380,814	1101,273	-313,989	43,577	-21,789
62,742	1692,518	-2544,400	401,761	1156,026	-288,428	43,577	-21,789
63,239	1781,078	-2687,980	422,708	1184,254	-288,428	43,577	-21,789
63,736	1869,637	-2832,071	443,655	1212,482	-288,428	43,577	-21,789
64,233	1958,196	-2976,627	464,603	1266,271	-264,012	43,577	-21,789
64,730	2046,755	-3121,694	485,550	1294,499	-264,012	43,577	-21,789
65,227	2135,315	-3267,227	506,497	1322,727	-264,012	43,577	-21,789
65,724	2223,874	-3413,270	527,445	1375,370	-240,924	43,577	-21,789
66,221	2312,433	-3559,780	548,392	1403,598	-240,924	43,577	-21,789
66,718	2400,992	-3706,800	569,339	1431,826	-240,924	43,577	-21,789
67,215	2489,552	-3854,286	590,286	1460,054	-240,924	43,577	-21,789
67,712	2578,111	-4002,283	611,234	1511,370	-222,456	43,577	-21,789
68,209	2666,670	-4150,768	632,181	1539,598	-222,456	43,577	-21,789

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
68,706	2755,229	-4299,718	653,128	1567,826	-222,456	43,577	-21,789
69,203	2843,789	-4449,180	674,075	1617,634	-222,456	43,577	-21,789
69,700	2932,348	-4599,107	695,023	1645,862	-222,456	43,577	-21,789
70,110	3009,976	-4110,052	712,304	1669,150	-222,456	43,577	-21,789
70,520	3096,737	-3625,428	729,586	1692,438	-222,456	43,577	-21,789
70,930	3192,631	-3145,236	746,867	1735,649	-222,456	43,577	-21,789
71,340	3297,658	-2669,476	764,149	1758,937	-222,456	43,577	-21,789
71,750	3411,819	-2198,147	781,430	1782,225	-222,456	43,577	-21,789
72,160	3535,112	-1731,250	798,712	1805,513	-222,456	43,577	-21,789
72,570	3667,539	-1268,807	815,993	1847,104	-222,456	43,577	-21,789
72,980	3809,099	-810,773	833,275	1870,392	-222,456	43,577	-21,789
73,390	3959,791	-357,171	850,556	1893,680	-222,456	43,577	-21,789
73,800	4119,617	92,000	867,838	1916,968	-222,456	43,577	-21,789
74,210	-3952,594	420,226	-847,819	272,617	-1931,432	5,937	-11,875
74,620	-3801,902	861,113	-830,537	272,617	-1908,144	5,937	-11,875
75,030	-3660,342	1297,569	-813,256	272,617	-1884,856	5,937	-11,875
75,440	-3527,915	1729,593	-795,974	272,617	-1861,568	5,937	-11,875
75,850	-3404,622	2157,185	-778,693	272,617	-1820,225	5,937	-11,875
76,260	-3290,461	2580,346	-761,411	272,617	-1796,937	5,937	-11,875
76,670	-3185,434	2999,075	-744,130	272,617	-1773,649	5,937	-11,875
77,080	-3089,540	3413,373	-726,848	272,617	-1750,361	5,937	-11,875
77,490	-3002,779	3823,239	-709,567	272,617	-1707,408	5,937	-11,875
77,900	-2925,151	4228,673	-692,285	272,617	-1684,120	5,937	-11,875
78,356	-2843,972	4102,163	-673,084	272,617	-1658,244	5,937	-11,875
78,811	-2762,792	3976,114	-653,882	272,617	-1611,051	5,937	-11,875
79,267	-2681,613	3850,568	-634,680	272,617	-1585,175	5,937	-11,875
79,722	-2600,434	3725,505	-615,479	272,617	-1559,300	5,937	-11,875
80,178	-2519,254	3600,923	-596,277	272,617	-1533,424	5,937	-11,875
80,633	-2438,075	3476,804	-577,075	281,116	-1484,723	5,937	-11,875
81,089	-2356,896	3353,187	-557,874	281,116	-1458,848	5,937	-11,875
81,544	-2275,717	3230,052	-538,672	281,116	-1432,972	5,937	-11,875
82,000	-2194,537	3107,399	-519,470	281,116	-1407,096	5,937	-11,875
82,492	-2106,864	2989,464	-498,733	303,942	-1355,001	5,937	-11,875
82,984	-2019,190	2870,916	-477,995	303,942	-1327,055	5,937	-11,875
83,476	-1931,516	2751,754	-457,257	303,942	-1299,110	5,937	-11,875
83,968	-1843,843	2631,980	-436,519	328,092	-1245,841	5,937	-11,875
84,460	-1756,169	2511,593	-415,781	328,092	-1217,896	5,937	-11,875

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
84,952	-1668,495	2390,613	-395,044	328,092	-1189,950	5,937	-11,875
85,444	-1580,822	2268,999	-374,306	353,414	-1135,725	5,937	-11,875
85,936	-1493,148	2146,773	-353,568	353,414	-1107,779	5,937	-11,875
86,428	-1405,474	2023,934	-332,830	353,414	-1079,833	5,937	-11,875
86,920	-1317,801	1900,481	-312,092	353,414	-1051,888	5,937	-11,875
87,412	-1230,127	1776,416	-291,355	379,694	-996,863	5,937	-11,875
87,904	-1142,453	1651,738	-270,617	379,694	-968,918	5,937	-11,875
88,396	-1054,780	1526,467	-249,879	379,694	-940,972	5,937	-11,875
88,888	-967,106	1400,563	-229,141	406,773	-885,304	5,937	-11,875
89,380	-879,432	1274,045	-208,403	406,773	-857,359	5,937	-11,875
89,872	-791,759	1146,915	-187,666	406,773	-829,413	5,937	-11,875
90,364	-704,085	1019,171	-166,928	434,495	-773,321	5,937	-11,875
90,856	-616,411	890,815	-146,190	434,495	-745,376	5,937	-11,875
91,348	-528,738	761,845	-125,452	434,495	-717,430	5,937	-11,875
91,840	-441,064	632,284	-104,714	434,495	-689,484	5,937	-11,875
92,332	-353,390	502,089	-83,977	462,642	-633,124	5,937	-11,875
92,824	-265,717	371,280	-63,239	462,642	-605,179	5,937	-11,875
93,316	-178,043	239,859	-42,501	462,642	-577,233	5,937	-11,875
93,808	-90,369	107,824	-21,763	491,056	-520,768	5,937	-11,875
94,300	-2,696	-24,823	-1,025	491,056	-492,822	5,937	-11,875
94,797	85,864	-159,337	19,922	518,797	-492,335	5,937	-11,875
95,294	174,423	-294,361	40,869	575,544	-463,909	5,937	-11,875
95,791	262,982	-429,851	61,816	603,772	-463,909	5,937	-11,875
96,288	351,541	-565,851	82,764	632,000	-463,909	5,937	-11,875
96,785	440,101	-702,318	103,711	688,654	-435,745	5,937	-11,875
97,282	528,660	-839,295	124,658	716,882	-435,745	5,937	-11,875
97,779	617,219	-976,738	145,606	745,110	-435,745	5,937	-11,875
98,276	705,778	-1114,692	166,553	773,338	-435,745	5,937	-11,875
98,773	794,338	-1253,133	187,500	829,729	-408,023	5,937	-11,875
99,270	882,897	-1392,041	208,447	857,957	-408,023	5,937	-11,875
99,767	971,456	-1531,460	229,395	886,185	-408,023	5,937	-11,875
100,264	1060,015	-1671,344	250,342	942,135	-380,917	5,937	-11,875
100,761	1148,575	-1811,739	271,289	970,363	-380,917	5,937	-11,875
101,258	1237,134	-1952,600	292,236	998,591	-380,917	5,937	-11,875
101,755	1325,693	-2093,972	313,184	1053,924	-354,606	5,937	-11,875
102,252	1414,252	-2235,809	334,131	1082,152	-354,606	5,937	-11,875
102,748	1502,812	-2378,157	355,078	1110,380	-354,606	5,937	-11,875

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
103,245	1591,371	-2520,972	376,026	1138,608	-354,606	5,937	-11,875
103,742	1679,930	-2664,296	396,973	1193,147	-329,267	5,937	-11,875
104,239	1768,489	-2808,087	417,920	1221,375	-329,267	5,937	-11,875
104,736	1857,049	-2952,388	438,867	1249,603	-329,267	5,937	-11,875
105,233	1945,608	-3097,155	459,815	1303,170	-305,077	5,937	-11,875
105,730	2034,167	-3242,433	480,762	1331,397	-305,077	5,937	-11,875
106,227	2122,726	-3388,199	501,709	1359,625	-305,077	5,937	-11,875
106,724	2211,286	-3534,431	522,656	1412,044	-282,212	5,937	-11,875
107,221	2299,845	-3681,173	543,604	1440,271	-282,212	5,937	-11,875
107,718	2388,404	-3828,382	564,551	1468,499	-282,212	5,937	-11,875
108,215	2476,963	-3976,101	585,498	1496,727	-282,212	5,937	-11,875
108,712	2565,523	-4124,286	606,446	1547,820	-272,858	5,937	-11,875
109,209	2654,082	-4272,982	627,393	1576,048	-272,858	5,937	-11,875
109,706	2742,641	-4422,143	648,340	1604,275	-272,858	5,937	-11,875
110,203	2831,200	-4571,816	669,287	1653,865	-272,858	5,937	-11,875
110,700	2919,760	-4721,954	690,235	1682,093	-272,858	5,937	-11,875
111,110	2997,388	-4232,319	707,516	1705,381	-272,858	5,937	-11,875
111,520	3084,149	-3747,115	724,798	1728,669	-272,858	5,937	-11,875
111,930	3180,043	-3266,366	742,079	1771,671	-272,858	5,937	-11,875
112,340	3285,070	-2790,026	759,361	1794,959	-272,858	5,937	-11,875
112,750	3399,231	-2318,118	776,642	1818,247	-272,858	5,937	-11,875
113,160	3522,524	-1850,641	793,924	1841,535	-272,858	5,937	-11,875
113,570	3654,951	-1387,596	811,205	1882,930	-272,858	5,937	-11,875
113,980	3796,510	-928,982	828,487	1906,218	-272,858	5,937	-11,875
114,390	3947,203	-474,800	845,768	1929,506	-272,858	5,937	-11,875
114,800	4107,029	-25,050	863,050	1952,794	-272,858	5,937	-11,875
115,210	-3949,001	453,482	-846,452	283,155	-1940,141	3,955	-1,977
115,620	-3798,308	894,203	-829,171	283,155	-1916,853	3,955	-1,977
116,030	-3656,749	1330,494	-811,889	283,155	-1893,565	3,955	-1,977
116,440	-3524,322	1762,352	-794,608	283,155	-1870,277	3,955	-1,977
116,850	-3401,029	2189,779	-777,326	283,155	-1828,900	3,955	-1,977
117,260	-3286,868	2612,774	-760,045	283,155	-1805,612	3,955	-1,977
117,670	-3181,841	3031,338	-742,763	283,155	-1782,324	3,955	-1,977
118,080	-3085,947	3445,470	-725,482	283,155	-1759,036	3,955	-1,977
118,490	-2999,186	3855,170	-708,200	283,155	-1716,052	3,955	-1,977
118,900	-2921,558	4260,418	-690,919	283,155	-1692,764	3,955	-1,977
119,356	-2840,378	4133,843	-671,717	283,155	-1666,888	3,955	-1,977

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
119,811	-2759,199	4007,750	-652,515	283,155	-1619,670	3,955	-1,977
120,267	-2678,020	3882,140	-633,314	283,155	-1593,794	3,955	-1,977
120,722	-2596,841	3757,011	-614,112	283,155	-1567,919	3,955	-1,977
121,178	-2515,661	3632,345	-594,910	283,155	-1542,043	3,955	-1,977
121,633	-2434,482	3508,181	-575,709	291,837	-1493,322	3,955	-1,977
122,089	-2353,303	3384,499	-556,507	291,837	-1467,446	3,955	-1,977
122,544	-2272,123	3261,299	-537,305	291,837	-1441,571	3,955	-1,977
123,000	-2190,944	3138,562	-518,104	291,837	-1415,695	3,955	-1,977
123,492	-2103,270	3020,703	-497,366	314,683	-1363,584	3,955	-1,977
123,984	-2015,597	2902,251	-476,628	314,683	-1335,638	3,955	-1,977
124,476	-1927,923	2783,166	-455,890	314,683	-1307,693	3,955	-1,977
124,968	-1840,249	2663,468	-435,152	338,848	-1254,413	3,955	-1,977
125,460	-1752,576	2543,157	-414,415	338,848	-1226,468	3,955	-1,977
125,952	-1664,902	2422,233	-393,677	338,848	-1198,522	3,955	-1,977
126,444	-1577,228	2300,696	-372,939	364,182	-1144,289	3,955	-1,977
126,936	-1489,555	2178,545	-352,201	364,182	-1116,344	3,955	-1,977
127,428	-1401,881	2055,803	-331,463	364,182	-1088,398	3,955	-1,977
127,920	-1314,207	1932,427	-310,726	364,182	-1060,452	3,955	-1,977
128,412	-1226,534	1808,438	-289,988	390,470	-1005,424	3,955	-1,977
128,904	-1138,860	1683,836	-269,250	390,470	-977,478	3,955	-1,977
129,396	-1051,186	1558,621	-248,512	390,470	-949,533	3,955	-1,977
129,888	-963,513	1432,793	-227,774	417,552	-893,865	3,955	-1,977
130,380	-875,839	1306,351	-207,037	417,552	-865,919	3,955	-1,977
130,872	-788,165	1179,318	-186,299	417,552	-837,974	3,955	-1,977
131,364	-700,492	1051,651	-165,561	445,275	-781,885	3,955	-1,977
131,856	-612,818	923,371	-144,823	445,275	-753,939	3,955	-1,977
132,348	-525,144	794,478	-124,085	445,275	-725,993	3,955	-1,977
132,840	-437,471	664,972	-103,348	445,275	-698,048	3,955	-1,977
133,332	-349,797	534,853	-82,610	473,418	-641,693	3,955	-1,977
133,824	-262,123	404,120	-61,872	473,418	-613,748	3,955	-1,977
134,316	-174,450	272,797	-41,134	473,418	-585,802	3,955	-1,977
134,808	-86,776	140,838	-20,396	501,827	-529,345	3,955	-1,977
135,300	0,898	8,267	0,341	501,827	-501,399	3,955	-1,977
135,797	89,457	-126,208	21,289	530,023	-501,367	3,955	-1,977
136,294	178,016	-261,150	42,236	586,762	-472,950	3,955	-1,977
136,791	266,575	-396,602	63,183	614,990	-472,950	3,955	-1,977
137,288	355,135	-532,520	84,131	643,218	-472,950	3,955	-1,977

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
137,785	443,694	-668,948	105,078	699,862	-444,799	3,955	-1,977
138,282	532,253	-805,843	126,025	728,090	-444,799	3,955	-1,977
138,779	620,812	-943,248	146,972	756,318	-444,799	3,955	-1,977
139,276	709,372	-1081,120	167,920	784,546	-444,799	3,955	-1,977
139,773	797,931	-1219,501	188,867	840,925	-417,090	3,955	-1,977
140,270	886,490	-1358,349	209,814	869,153	-417,090	3,955	-1,977
140,767	975,049	-1497,707	230,761	897,381	-417,090	3,955	-1,977
141,264	1063,609	-1637,554	251,709	953,318	-389,999	3,955	-1,977
141,761	1152,168	-1777,867	272,656	981,546	-389,999	3,955	-1,977
142,258	1240,727	-1918,689	293,603	1009,774	-389,999	3,955	-1,977
142,755	1329,286	-2059,979	314,551	1065,092	-363,703	3,955	-1,977
143,252	1417,846	-2201,778	335,498	1093,320	-363,703	3,955	-1,977
143,748	1506,405	-2344,044	356,445	1121,548	-363,703	3,955	-1,977
144,245	1594,964	-2486,820	377,392	1149,776	-363,703	3,955	-1,977
144,742	1683,523	-2630,062	398,340	1204,299	-338,380	3,955	-1,977
145,239	1772,083	-2773,815	419,287	1232,527	-338,380	3,955	-1,977
145,736	1860,642	-2918,034	440,234	1260,755	-338,380	3,955	-1,977
146,233	1949,201	-3062,763	461,181	1314,306	-314,206	3,955	-1,977
146,730	2037,760	-3207,958	482,129	1342,534	-314,206	3,955	-1,977
147,227	2126,320	-3353,664	503,076	1370,762	-314,206	3,955	-1,977
147,724	2214,879	-3499,836	524,023	1423,164	-291,358	3,955	-1,977
148,221	2303,438	-3646,518	544,971	1451,392	-291,358	3,955	-1,977
148,718	2391,997	-3793,689	565,918	1479,620	-291,358	3,955	-1,977
149,215	2480,557	-3941,326	586,865	1507,848	-291,358	3,955	-1,977
149,712	2569,116	-4089,473	607,812	1558,924	-282,619	3,955	-1,977
150,209	2657,675	-4238,086	628,760	1587,152	-282,619	3,955	-1,977
150,706	2746,235	-4387,210	649,707	1615,380	-282,619	3,955	-1,977
151,203	2834,794	-4536,799	670,654	1664,953	-282,619	3,955	-1,977
151,700	2923,353	-4686,900	691,601	1693,181	-282,619	3,955	-1,977
152,110	3000,981	-4197,430	708,883	1716,469	-282,619	3,955	-1,977
152,520	3087,742	-3712,393	726,164	1739,757	-282,619	3,955	-1,977
152,930	3183,636	-3231,786	743,446	1782,744	-282,619	3,955	-1,977
153,340	3288,663	-2755,612	760,727	1806,032	-282,619	3,955	-1,977
153,750	3402,824	-2283,869	778,009	1829,320	-282,619	3,955	-1,977
154,160	3526,117	-1816,558	795,290	1852,608	-282,619	3,955	-1,977
154,570	3658,544	-1353,678	812,572	1893,989	-282,619	3,955	-1,977
154,980	3800,104	-895,230	829,853	1917,277	-282,619	3,955	-1,977

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
155,390	3950,796	-441,213	847,135	1940,565	-282,619	3,955	-1,977
155,800	4110,622	8,372	864,416	1963,853	-282,619	3,955	-1,977
156,210	-3950,796	436,865	-847,135	282,619	-1940,565	1,977	-3,955
156,620	-3800,103	877,669	-829,853	282,619	-1917,277	1,977	-3,955
157,030	-3658,544	1314,042	-812,572	282,619	-1893,989	1,977	-3,955
157,440	-3526,117	1745,983	-795,290	282,619	-1870,701	1,977	-3,955
157,850	-3402,824	2173,493	-778,009	282,619	-1829,320	1,977	-3,955
158,260	-3288,663	2596,571	-760,727	282,619	-1806,032	1,977	-3,955
158,670	-3183,636	3015,217	-743,446	282,619	-1782,744	1,977	-3,955
159,080	-3087,742	3429,432	-726,164	282,619	-1759,456	1,977	-3,955
159,490	-3000,981	3839,215	-708,883	282,619	-1716,469	1,977	-3,955
159,900	-2923,353	4244,566	-691,601	282,619	-1693,181	1,977	-3,955
160,356	-2842,173	4118,024	-672,400	282,619	-1667,306	1,977	-3,955
160,811	-2760,994	3991,943	-653,198	282,619	-1620,084	1,977	-3,955
161,267	-2679,815	3866,364	-633,996	282,619	-1594,209	1,977	-3,955
161,722	-2598,635	3741,268	-614,795	282,619	-1568,333	1,977	-3,955
162,178	-2517,456	3616,654	-595,593	282,619	-1542,458	1,977	-3,955
162,633	-2436,277	3492,502	-576,391	291,358	-1493,734	1,977	-3,955
163,089	-2355,098	3368,853	-557,190	291,358	-1467,858	1,977	-3,955
163,544	-2273,918	3245,686	-537,988	291,358	-1441,983	1,977	-3,955
164,000	-2192,739	3123,001	-518,786	291,358	-1416,107	1,977	-3,955
164,492	-2105,065	3005,104	-498,049	314,206	-1363,993	1,977	-3,955
164,984	-2017,392	2886,593	-477,311	314,206	-1336,048	1,977	-3,955
165,476	-1929,718	2767,470	-456,573	314,206	-1308,102	1,977	-3,955
165,968	-1842,044	2647,734	-435,835	338,374	-1254,821	1,977	-3,955
166,460	-1754,371	2527,385	-415,097	338,374	-1226,875	1,977	-3,955
166,952	-1666,697	2406,443	-394,360	338,374	-1198,930	1,977	-3,955
167,444	-1579,023	2284,868	-373,622	363,710	-1144,695	1,977	-3,955
167,936	-1491,350	2162,680	-352,884	363,710	-1116,749	1,977	-3,955
168,428	-1403,676	2039,879	-332,146	363,710	-1088,804	1,977	-3,955
168,920	-1316,002	1916,464	-311,408	363,710	-1060,858	1,977	-3,955
169,412	-1228,329	1792,437	-290,671	389,999	-1005,829	1,977	-3,955
169,904	-1140,655	1667,797	-269,933	389,999	-977,883	1,977	-3,955
170,396	-1052,981	1542,565	-249,195	389,999	-949,937	1,977	-3,955
170,888	-965,308	1416,698	-228,457	417,083	-894,269	1,977	-3,955
171,380	-877,634	1290,219	-207,719	417,083	-866,323	1,977	-3,955
171,872	-789,960	1163,127	-186,982	417,083	-838,377	1,977	-3,955

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
172,364	-702,287	1035,422	-166,244	444,806	-782,287	1,977	-3,955
172,856	-614,613	907,103	-145,506	444,806	-754,342	1,977	-3,955
173,348	-526,939	778,172	-124,768	444,806	-726,396	1,977	-3,955
173,840	-439,266	648,649	-104,030	444,806	-698,451	1,977	-3,955
174,332	-351,592	518,492	-83,293	472,950	-642,096	1,977	-3,955
174,824	-263,918	387,722	-62,555	472,950	-614,150	1,977	-3,955
175,316	-176,245	256,338	-41,817	472,950	-586,205	1,977	-3,955
175,808	-88,571	124,342	-21,079	501,360	-529,747	1,977	-3,955
176,300	-0,897	-8,267	-0,341	501,392	-501,834	1,977	-3,955
176,797	87,662	-142,751	20,606	529,620	-501,834	1,977	-3,955
177,294	176,221	-277,745	41,553	586,359	-473,418	1,977	-3,955
177,791	264,780	-413,205	62,500	614,587	-473,418	1,977	-3,955
178,288	353,340	-549,175	83,448	642,815	-473,418	1,977	-3,955
178,785	441,899	-685,612	104,395	699,459	-445,268	1,977	-3,955
179,282	530,458	-822,558	125,342	727,687	-445,268	1,977	-3,955
179,779	619,017	-959,972	146,289	755,915	-445,268	1,977	-3,955
180,276	707,577	-1097,895	167,237	784,143	-445,268	1,977	-3,955
180,773	796,136	-1236,306	188,184	840,521	-417,559	1,977	-3,955
181,270	884,695	-1375,184	209,131	868,749	-417,559	1,977	-3,955
181,767	973,254	-1514,573	230,079	896,977	-417,559	1,977	-3,955
182,264	1061,814	-1654,427	251,026	952,913	-390,470	1,977	-3,955
182,761	1150,373	-1794,792	271,973	981,141	-390,470	1,977	-3,955
183,258	1238,932	-1935,623	292,920	1009,369	-390,470	1,977	-3,955
183,755	1327,491	-2076,964	313,868	1064,687	-364,176	1,977	-3,955
184,252	1416,051	-2218,772	334,815	1092,914	-364,176	1,977	-3,955
184,748	1504,610	-2361,090	355,762	1121,142	-364,176	1,977	-3,955
185,245	1593,169	-2503,874	376,709	1149,370	-364,176	1,977	-3,955
185,742	1681,729	-2647,168	397,657	1203,892	-338,855	1,977	-3,955
186,239	1770,288	-2790,929	418,604	1232,120	-338,855	1,977	-3,955
186,736	1858,847	-2935,200	439,551	1260,348	-338,855	1,977	-3,955
187,233	1947,406	-3079,937	460,499	1313,897	-314,683	1,977	-3,955
187,730	2035,966	-3225,184	481,446	1342,125	-314,683	1,977	-3,955
188,227	2124,525	-3370,920	502,393	1370,352	-314,683	1,977	-3,955
188,724	2213,084	-3517,122	523,340	1422,752	-291,837	1,977	-3,955
189,221	2301,643	-3663,835	544,288	1450,980	-291,837	1,977	-3,955
189,718	2390,203	-3811,013	565,235	1479,208	-291,837	1,977	-3,955
190,215	2478,762	-3958,702	586,182	1507,436	-291,837	1,977	-3,955

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
190,712	2567,321	-4106,857	607,129	1558,510	-283,155	1,977	-3,955
191,209	2655,880	-4255,523	628,077	1586,737	-283,155	1,977	-3,955
191,706	2744,440	-4404,654	649,024	1614,965	-283,155	1,977	-3,955
192,203	2832,999	-4554,296	669,971	1664,536	-283,155	1,977	-3,955
192,700	2921,558	-4704,404	690,919	1692,764	-283,155	1,977	-3,955
193,110	2999,186	-4214,852	708,200	1716,052	-283,155	1,977	-3,955
193,520	3085,947	-3729,732	725,482	1739,340	-283,155	1,977	-3,955
193,930	3181,841	-3249,065	742,763	1782,324	-283,155	1,977	-3,955
194,340	3286,868	-2772,808	760,045	1805,612	-283,155	1,977	-3,955
194,750	3401,029	-2300,982	777,326	1828,900	-283,155	1,977	-3,955
195,160	3524,322	-1833,588	794,608	1852,188	-283,155	1,977	-3,955
195,570	3656,749	-1370,626	811,889	1893,565	-283,155	1,977	-3,955
195,980	3798,309	-912,095	829,171	1916,853	-283,155	1,977	-3,955
196,390	3949,001	-457,996	846,452	1940,141	-283,155	1,977	-3,955
196,800	4108,827	-8,328	863,734	1963,429	-283,155	1,977	-3,955
197,210	-3947,205	470,099	-845,768	272,858	-1929,506	11,875	-5,937
197,620	-3796,512	910,738	-828,487	272,858	-1906,218	11,875	-5,937
198,030	-3654,952	1346,945	-811,205	272,858	-1882,930	11,875	-5,937
198,440	-3522,525	1778,721	-793,924	272,858	-1859,642	11,875	-5,937
198,850	-3399,232	2206,065	-776,642	272,858	-1818,247	11,875	-5,937
199,260	-3285,072	2628,978	-759,361	272,858	-1794,959	11,875	-5,937
199,670	-3180,044	3047,459	-742,079	272,858	-1771,671	11,875	-5,937
200,080	-3084,150	3461,508	-724,798	272,858	-1748,383	11,875	-5,937
200,490	-2997,389	3871,126	-707,516	272,858	-1705,381	11,875	-5,937
200,900	-2919,761	4276,312	-690,235	272,858	-1682,093	11,875	-5,937
201,356	-2838,582	4149,704	-671,033	272,858	-1656,217	11,875	-5,937
201,811	-2757,403	4023,558	-651,831	272,858	-1608,980	11,875	-5,937
202,267	-2676,223	3897,915	-632,630	272,858	-1583,105	11,875	-5,937
202,722	-2595,044	3772,754	-613,428	272,858	-1557,229	11,875	-5,937
203,178	-2513,865	3648,076	-594,226	272,858	-1531,353	11,875	-5,937
203,633	-2432,685	3523,859	-575,025	282,212	-1482,613	11,875	-5,937
204,089	-2351,506	3400,145	-555,823	282,212	-1456,738	11,875	-5,937
204,544	-2270,327	3276,913	-536,621	282,212	-1430,862	11,875	-5,937
205,000	-2189,147	3154,163	-517,420	282,212	-1404,987	11,875	-5,937
205,492	-2101,474	3036,342	-496,682	305,077	-1352,857	11,875	-5,937
205,984	-2013,800	2917,908	-475,944	305,077	-1324,911	11,875	-5,937
206,476	-1926,126	2798,861	-455,206	305,077	-1296,966	11,875	-5,937

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
206,968	-1838,453	2679,201	-434,468	329,261	-1243,668	11,875	-5,937
207,460	-1750,779	2558,928	-413,731	329,261	-1215,723	11,875	-5,937
207,952	-1663,105	2438,063	-392,993	329,261	-1187,777	11,875	-5,937
208,444	-1575,432	2316,564	-372,255	354,613	-1133,527	11,875	-5,937
208,936	-1487,758	2194,452	-351,517	354,613	-1105,581	11,875	-5,937
209,428	-1400,084	2071,727	-330,779	354,613	-1077,636	11,875	-5,937
209,920	-1312,411	1948,389	-310,042	354,613	-1049,690	11,875	-5,937
210,412	-1224,737	1824,438	-289,304	380,917	-994,646	11,875	-5,937
210,904	-1137,063	1699,874	-268,566	380,917	-966,701	11,875	-5,937
211,396	-1049,390	1574,718	-247,828	380,917	-938,755	11,875	-5,937
211,888	-961,716	1448,928	-227,090	408,016	-883,073	11,875	-5,937
212,380	-874,042	1322,525	-206,353	408,016	-855,127	11,875	-5,937
212,872	-786,369	1195,509	-185,615	408,016	-827,181	11,875	-5,937
213,364	-698,695	1067,880	-164,877	435,752	-771,080	11,875	-5,937
213,856	-611,021	939,639	-144,139	435,752	-743,134	11,875	-5,937
214,348	-523,348	810,784	-123,401	435,752	-715,188	11,875	-5,937
214,840	-435,674	681,337	-102,664	435,752	-687,243	11,875	-5,937
215,332	-348,000	551,256	-81,926	463,909	-630,878	11,875	-5,937
215,824	-260,327	420,562	-61,188	463,909	-602,932	11,875	-5,937
216,316	-172,653	289,255	-40,450	463,909	-574,987	11,875	-5,937
216,808	-84,979	157,335	-19,712	492,328	-518,522	11,875	-5,937
217,300	2,694	24,802	1,025	492,815	-491,063	11,875	-5,937
217,797	91,253	-109,622	21,973	521,043	-491,063	11,875	-5,937
218,294	179,813	-244,555	42,920	577,791	-462,642	11,875	-5,937
218,791	268,372	-379,955	63,867	606,018	-462,642	11,875	-5,937
219,288	356,931	-515,865	84,814	634,246	-462,642	11,875	-5,937
219,785	445,491	-652,242	105,762	690,896	-434,488	11,875	-5,937
220,282	534,050	-789,129	126,709	719,124	-434,488	11,875	-5,937
220,779	622,609	-926,503	147,656	747,351	-434,488	11,875	-5,937
221,276	711,168	-1064,345	168,604	775,579	-434,488	11,875	-5,937
221,773	799,728	-1202,696	189,551	831,961	-406,780	11,875	-5,937
222,270	888,287	-1341,514	210,498	860,188	-406,780	11,875	-5,937
222,767	976,846	-1480,842	231,445	888,416	-406,780	11,875	-5,937
223,264	1065,405	-1620,637	252,393	944,352	-379,694	11,875	-5,937
223,761	1153,965	-1760,941	273,340	972,580	-379,694	11,875	-5,937
224,258	1242,524	-1901,712	294,287	1000,808	-379,694	11,875	-5,937
224,755	1331,083	-2042,993	315,234	1056,122	-353,408	11,875	-5,937

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
225,252	1419,642	-2184,741	336,182	1084,350	-353,408	11,875	-5,937
225,748	1508,202	-2326,998	357,129	1112,578	-353,408	11,875	-5,937
226,245	1596,761	-2469,722	378,076	1140,806	-353,408	11,875	-5,937
226,742	1685,320	-2612,957	399,024	1195,320	-328,098	11,875	-5,937
227,239	1773,879	-2756,657	419,971	1223,548	-328,098	11,875	-5,937
227,736	1862,439	-2900,868	440,918	1251,776	-328,098	11,875	-5,937
228,233	1950,998	-3045,567	461,865	1305,314	-303,942	11,875	-5,937
228,730	2039,557	-3190,732	482,813	1333,541	-303,942	11,875	-5,937
229,227	2128,116	-3336,408	503,760	1361,769	-303,942	11,875	-5,937
229,724	2216,676	-3482,550	524,707	1414,153	-281,116	11,875	-5,937
230,221	2305,235	-3629,202	545,654	1442,381	-281,116	11,875	-5,937
230,718	2393,794	-3776,320	566,602	1470,609	-281,116	11,875	-5,937
231,215	2482,353	-3923,949	587,549	1498,837	-281,116	11,875	-5,937
231,712	2570,913	-4072,044	608,496	1549,890	-272,618	11,875	-5,937
232,209	2659,472	-4220,649	629,444	1578,118	-272,618	11,875	-5,937
232,706	2748,031	-4369,721	650,391	1606,346	-272,618	11,875	-5,937
233,203	2836,590	-4519,303	671,338	1655,892	-272,618	11,875	-5,937
233,700	2925,150	-4669,350	692,285	1684,120	-272,618	11,875	-5,937
234,110	3002,778	-4179,964	709,567	1707,408	-272,618	11,875	-5,937
234,520	3089,539	-3695,031	726,848	1730,696	-272,618	11,875	-5,937
234,930	3185,433	-3214,508	744,130	1773,649	-272,618	11,875	-5,937
235,340	3290,460	-2738,416	761,411	1796,937	-272,618	11,875	-5,937
235,750	3404,620	-2266,756	778,693	1820,225	-272,618	11,875	-5,937
236,160	3527,914	-1799,527	795,974	1843,513	-272,618	11,875	-5,937
236,570	3660,341	-1336,730	813,256	1884,856	-272,618	11,875	-5,937
236,980	3801,900	-878,365	830,537	1908,144	-272,618	11,875	-5,937
237,390	3952,593	-424,431	847,819	1931,432	-272,618	11,875	-5,937
237,800	4112,419	25,071	865,100	1954,720	-272,618	11,875	-5,937
238,210	-3959,786	353,693	-850,556	222,456	-1893,680	21,789	-43,577
238,620	-3809,093	794,912	-833,275	222,456	-1870,392	21,789	-43,577
239,030	-3667,534	1231,699	-815,993	222,456	-1847,104	21,789	-43,577
239,440	-3535,107	1664,054	-798,712	222,456	-1823,816	21,789	-43,577
239,850	-3411,813	2091,977	-781,430	222,456	-1782,225	21,789	-43,577
240,260	-3297,653	2515,448	-764,149	222,456	-1758,937	21,789	-43,577
240,670	-3192,626	2934,509	-746,867	222,456	-1735,649	21,789	-43,577
241,080	-3096,732	3349,137	-729,586	222,456	-1712,361	21,789	-43,577
241,490	-3009,971	3759,335	-712,304	222,456	-1669,150	21,789	-43,577

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
241,900	-2932,343	4165,100	-695,023	222,456	-1645,862	21,789	-43,577
242,356	-2851,163	4038,720	-675,821	222,456	-1619,986	21,789	-43,577
242,811	-2769,984	3912,821	-656,619	222,456	-1572,531	21,789	-43,577
243,267	-2688,805	3787,405	-637,418	222,456	-1546,655	21,789	-43,577
243,722	-2607,625	3662,451	-618,216	222,456	-1520,780	21,789	-43,577
244,178	-2526,446	3537,999	-599,014	222,456	-1494,904	21,789	-43,577
244,633	-2445,267	3414,030	-579,813	240,924	-1445,940	21,789	-43,577
245,089	-2364,087	3290,542	-560,611	240,924	-1420,064	21,789	-43,577
245,544	-2282,908	3167,517	-541,409	240,924	-1394,189	21,789	-43,577
246,000	-2201,729	3044,994	-522,208	240,924	-1368,313	21,789	-43,577
246,492	-2114,055	2926,906	-501,470	264,012	-1315,958	21,789	-43,577
246,984	-2026,381	2808,205	-480,732	264,012	-1288,013	21,789	-43,577
247,476	-1938,708	2688,911	-459,994	264,012	-1260,067	21,789	-43,577
247,968	-1851,034	2568,984	-439,257	288,422	-1206,547	21,789	-43,577
248,460	-1763,360	2448,444	-418,519	288,422	-1178,602	21,789	-43,577
248,952	-1675,687	2327,291	-397,781	288,422	-1150,656	21,789	-43,577
249,444	-1588,013	2205,525	-377,043	313,996	-1096,192	21,789	-43,577
249,936	-1500,339	2083,146	-356,305	313,996	-1068,246	21,789	-43,577
250,428	-1412,666	1960,154	-335,568	313,996	-1040,301	21,789	-43,577
250,920	-1324,992	1836,570	-314,830	313,996	-1012,355	21,789	-43,577
251,412	-1237,318	1712,351	-294,092	340,515	-957,108	21,789	-43,577
251,904	-1149,645	1587,520	-273,354	340,515	-929,163	21,789	-43,577
252,396	-1061,971	1462,076	-252,616	340,515	-901,217	21,789	-43,577
252,888	-974,297	1336,019	-231,879	367,816	-845,348	21,789	-43,577
253,380	-886,624	1209,349	-211,141	367,816	-817,403	21,789	-43,577
253,872	-798,950	1082,066	-190,403	367,816	-789,457	21,789	-43,577
254,364	-711,276	954,191	-169,665	395,739	-733,189	21,789	-43,577
254,856	-623,603	825,682	-148,927	395,739	-705,244	21,789	-43,577
255,348	-535,929	696,560	-128,190	395,739	-677,298	21,789	-43,577
255,840	-448,256	566,824	-107,452	395,739	-649,353	21,789	-43,577
256,332	-360,582	436,476	-86,714	424,061	-592,847	21,789	-43,577
256,824	-272,908	305,515	-65,976	424,061	-564,901	21,789	-43,577
257,316	-185,235	173,941	-45,238	424,061	-536,956	21,789	-43,577
257,808	-97,561	41,775	-24,501	452,621	-480,379	21,789	-43,577
258,300	-9,887	-91,025	-3,763	459,422	-459,235	21,789	-43,577
258,797	78,672	-225,681	17,185	487,650	-459,235	21,789	-43,577
259,294	167,231	-360,803	38,132	544,509	-430,736	21,789	-43,577

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
259,791	255,791	-496,436	59,079	572,737	-430,736	21,789	-43,577
260,288	344,350	-632,535	80,026	600,965	-430,736	21,789	-43,577
260,785	432,909	-769,144	100,974	657,692	-402,543	21,789	-43,577
261,282	521,468	-906,241	121,921	685,920	-402,543	21,789	-43,577
261,779	610,028	-1043,805	142,868	714,147	-402,543	21,789	-43,577
262,276	698,587	-1181,879	163,815	742,375	-402,543	21,789	-43,577
262,773	787,146	-1320,419	184,763	798,796	-374,838	21,789	-43,577
263,270	875,705	-1459,469	205,710	827,024	-374,838	21,789	-43,577
263,767	964,265	-1598,986	226,657	855,252	-374,838	21,789	-43,577
264,264	1052,824	-1739,013	247,605	911,185	-347,802	21,789	-43,577
264,761	1141,383	-1879,506	268,552	939,413	-347,802	21,789	-43,577
265,258	1229,942	-2020,510	289,499	967,641	-347,802	21,789	-43,577
265,755	1318,502	-2161,980	310,446	1022,905	-321,616	21,789	-43,577
266,252	1407,061	-2303,960	331,394	1051,133	-321,616	21,789	-43,577
266,748	1495,620	-2446,406	352,341	1079,360	-321,616	21,789	-43,577
267,245	1584,179	-2589,363	373,288	1107,588	-321,616	21,789	-43,577
267,742	1672,739	-2732,786	394,235	1162,002	-296,463	21,789	-43,577
268,239	1761,298	-2876,719	415,183	1190,229	-296,463	21,789	-43,577
268,736	1849,857	-3021,141	436,130	1218,457	-296,463	21,789	-43,577
269,233	1938,416	-3166,028	457,077	1271,838	-272,523	21,789	-43,577
269,730	2026,976	-3311,426	478,025	1300,066	-272,523	21,789	-43,577
270,227	2115,535	-3457,291	498,972	1328,294	-272,523	21,789	-43,577
270,724	2204,094	-3603,665	519,919	1380,462	-249,979	21,789	-43,577
271,221	2292,653	-3750,506	540,866	1408,689	-249,979	21,789	-43,577
271,718	2381,213	-3897,857	561,814	1436,917	-249,979	21,789	-43,577
272,215	2469,772	-4045,674	582,761	1465,145	-249,979	21,789	-43,577
272,712	2558,331	-4194,002	603,708	1515,918	-243,989	21,789	-43,577
273,209	2646,890	-4342,796	624,655	1544,145	-243,989	21,789	-43,577
273,706	2735,450	-4492,100	645,603	1572,373	-243,989	21,789	-43,577
274,203	2824,009	-4641,871	666,550	1621,569	-243,989	21,789	-43,577
274,700	2912,568	-4792,152	687,497	1649,797	-243,989	21,789	-43,577
275,110	2990,196	-4302,185	704,779	1673,085	-243,989	21,789	-43,577
275,520	3076,957	-3816,651	722,060	1696,373	-243,989	21,789	-43,577
275,930	3172,851	-3335,548	739,342	1738,905	-243,989	21,789	-43,577
276,340	3277,879	-2858,877	756,623	1762,193	-243,989	21,789	-43,577
276,750	3392,039	-2386,637	773,905	1785,481	-243,989	21,789	-43,577
277,160	3515,332	-1918,829	791,186	1808,769	-243,989	21,789	-43,577

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
277,570	3647,759	-1455,453	808,468	1849,623	-243,989	21,789	-43,577
277,980	3789,319	-996,508	825,749	1872,911	-243,989	21,789	-43,577
278,390	3940,012	-541,995	843,031	1896,199	-243,989	21,789	-43,577
278,800	4099,838	-91,935	860,312	1919,487	-243,989	21,789	-43,577
279,210	-4024,664	1083,186	-857,044	66,371	-1786,030	219,776	-109,888
279,620	-3873,971	1520,752	-839,762	66,371	-1762,742	219,776	-109,888
280,030	-3732,411	1953,908	-822,481	66,371	-1739,454	219,776	-109,888
280,440	-3599,985	2382,633	-805,199	66,371	-1716,166	219,776	-109,888
280,850	-3476,691	2806,925	-787,918	66,371	-1674,488	219,776	-109,888
281,260	-3362,531	3226,787	-770,636	66,371	-1651,200	219,776	-109,888
281,670	-3257,504	3642,216	-753,355	66,371	-1627,912	219,776	-109,888
282,080	-3161,609	4053,214	-736,073	66,371	-1604,624	219,776	-109,888
282,490	-3074,848	4459,780	-718,792	83,135	-1561,175	219,776	-109,888
282,900	-2997,220	4861,915	-701,510	83,135	-1537,887	219,776	-109,888
283,356	-2916,041	4734,112	-682,309	83,135	-1512,012	219,776	-109,888
283,811	-2834,862	4606,812	-663,107	103,295	-1464,083	219,776	-109,888
284,267	-2753,683	4479,974	-643,905	103,295	-1438,207	219,776	-109,888
284,722	-2672,503	4353,638	-624,704	103,295	-1412,332	219,776	-109,888
285,178	-2591,324	4227,764	-605,502	103,295	-1386,456	219,776	-109,888
285,633	-2510,145	4102,392	-586,300	125,349	-1336,711	219,776	-109,888
286,089	-2428,965	3977,482	-567,099	125,349	-1310,835	219,776	-109,888
286,544	-2347,786	3853,075	-547,897	125,349	-1284,960	219,776	-109,888
287,000	-2266,607	3729,130	-528,695	125,349	-1259,084	219,776	-109,888
287,492	-2178,933	4068,859	-507,958	149,219	-1205,573	219,776	-109,888
287,984	-2091,259	3940,106	-487,220	149,219	-1177,627	219,776	-109,888
288,476	-2003,586	3810,445	-466,482	149,219	-1149,681	219,776	-109,888
288,968	-1915,912	3679,876	-445,744	174,785	-1094,560	219,776	-109,888
289,460	-1828,238	3548,376	-425,006	174,785	-1066,615	219,776	-109,888
289,952	-1740,565	3415,990	-404,269	174,785	-1038,669	219,776	-109,888
290,444	-1652,891	3282,697	-383,531	201,960	-982,093	219,776	-109,888
290,936	-1565,217	3148,495	-362,793	201,960	-954,148	219,776	-109,888
291,428	-1477,544	3013,385	-342,055	201,960	-926,202	219,776	-109,888
291,920	-1389,870	2877,367	-321,317	201,960	-898,256	219,776	-109,888
292,412	-1302,196	2740,441	-300,580	230,590	-840,319	219,776	-109,888
292,904	-1214,523	2602,607	-279,842	230,590	-812,373	219,776	-109,888
293,396	-1126,849	2463,841	-259,104	230,590	-784,428	219,776	-109,888
293,888	-1039,175	2324,190	-238,366	260,582	-725,218	219,776	-109,888

x [m]	V_{PP} [kN]	V_{PE} [kN]	V_{RCP} [kN]	V_{SC}^{max} [kN]	V_{SC}^{min} [kN]	V_{VDT}^{max} [kN]	V_{VDT}^{min} [kN]
294,380	-951,502	2183,632	-217,628	260,582	-697,273	219,776	-109,888
294,872	-863,828	2042,165	-196,891	260,582	-669,327	219,776	-109,888
295,364	-776,154	1899,790	-176,153	291,846	-609,006	219,776	-109,888
295,856	-688,481	1756,507	-155,415	291,846	-581,060	219,776	-109,888
296,348	-600,807	1612,315	-134,677	291,846	-553,115	219,776	-109,888
296,840	-513,133	1467,216	-113,939	291,846	-525,169	219,776	-109,888
297,332	-425,460	1321,208	-93,202	329,758	-469,363	219,776	-109,888
297,824	-337,786	1174,268	-72,464	357,703	-469,363	219,776	-109,888
298,316	-250,112	1026,444	-51,726	385,649	-469,363	219,776	-109,888
298,808	-162,439	877,712	-30,988	446,991	-435,042	219,776	-109,888
299,300	-74,765	728,072	-10,250	474,937	-435,042	219,776	-109,888
299,782	11,189	472,634	10,081	502,334	-435,042	219,776	-109,888
300,265	97,144	218,190	30,412	564,053	-399,934	219,776	-109,888
300,747	183,099	-35,311	50,743	591,451	-399,934	219,776	-109,888
301,229	269,053	-287,819	71,074	618,849	-399,934	219,776	-109,888
301,712	355,008	-539,383	91,405	646,246	-399,934	219,776	-109,888
302,194	440,962	-789,954	111,737	708,752	-364,145	219,776	-109,888
302,676	526,917	-1039,581	132,068	736,149	-364,145	219,776	-109,888
303,159	612,871	-1288,240	152,399	763,547	-364,145	219,776	-109,888
303,641	698,826	-1535,906	172,730	826,734	-327,789	219,776	-109,888
304,124	784,781	-1782,628	193,061	854,131	-327,789	219,776	-109,888
304,606	870,735	-2028,358	213,392	881,529	-327,789	219,776	-109,888
305,088	956,690	-2273,143	233,724	945,283	-290,978	219,776	-109,888
305,571	1042,644	-2516,959	254,055	972,681	-290,978	219,776	-109,888
306,053	1128,599	-2759,784	274,386	1000,078	-290,978	219,776	-109,888
306,535	1214,553	-3001,663	294,717	1027,476	-290,978	219,776	-109,888
307,018	1300,508	-3242,551	315,048	1091,684	-253,832	219,776	-109,888
307,500	1386,463	-3482,494	335,380	1119,082	-253,832	219,776	-109,888
307,910	1465,809	-3684,587	352,661	1142,370	-253,832	219,776	-109,888
308,320	1557,727	-3885,857	369,943	1165,658	-253,832	219,776	-109,888
308,730	1662,215	-4086,304	387,224	1226,092	-247,953	219,776	-109,888
309,140	1779,275	-4285,928	404,506	1249,380	-247,953	219,776	-109,888
309,550	1908,905	-4484,729	421,787	1272,668	-247,953	219,776	-109,888
309,960	2051,106	-4682,706	439,069	1295,956	-247,953	219,776	-109,888
310,370	2205,877	-4879,861	456,350	1356,589	-247,953	219,776	-109,888
310,780	2373,220	-5076,192	473,632	1379,877	-247,953	219,776	-109,888
311,190	2553,133	-5271,700	490,913	1403,165	-247,953	219,776	-109,888

311,600	2745,617	-5466,385	508,195	1426,453	-247,953	219,776	-109,888

Anexo D – Estado limite de descompressão (fases construtivas)

D.1 Momento fletor nas fases construtivas

D.1.1 Devido ao Peso Próprio

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
0,000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0,410	1330,06	1115,06	1172,78	1157,33	1161,46	1160,36	1160,65	1160,61
0,820	2583,92	2153,91	2269,36	2238,44	2246,72	2244,50	2245,10	2245,00
1,230	3766,68	3121,68	3294,85	3248,47	3260,89	3257,57	3258,46	3258,31
1,640	4883,48	4023,47	4254,37	4192,54	4209,09	4204,66	4205,85	4205,66
2,050	5939,44	4864,43	5153,05	5075,76	5096,45	5090,91	5092,40	5092,16
2,460	6939,68	5649,66	5996,01	5903,26	5928,09	5921,44	5923,22	5922,94
2,870	7889,34	6384,32	6788,39	6680,19	6709,16	6701,40	6703,48	6703,15
3,280	8793,59	7073,57	7535,36	7411,70	7444,81	7435,94	7438,32	7437,94
3,690	9657,57	7722,55	8242,07	8102,95	8140,20	8130,22	8132,89	8132,47
4,100	10486,45	8336,42	8913,66	8759,09	8800,47	8789,39	8792,36	8791,89
4,582	11422,23	9019,26	9664,42	9491,65	9537,91	9525,52	9528,84	9528,31
5,065	12316,56	9660,65	10373,71	10182,76	10233,88	10220,20	10223,86	10223,28
5,547	13169,42	10260,57	11041,54	10832,41	10888,40	10873,41	10877,42	10876,78
6,029	13980,83	10819,03	11667,91	11440,59	11501,45	11485,16	11489,52	11488,82
6,512	14750,77	11336,03	12252,82	12007,32	12073,05	12055,45	12060,16	12059,41
6,994	15479,25	11811,57	12796,27	12532,58	12603,18	12584,28	12589,34	12588,53
7,476	16166,28	12245,64	13298,26	13016,38	13091,85	13071,65	13077,06	13076,19
7,959	16811,84	12638,26	13758,79	13458,73	13539,06	13517,56	13523,31	13522,40
8,441	17415,94	12989,42	14177,86	13859,61	13944,82	13922,00	13928,11	13927,14
8,924	17978,58	13299,12	14555,46	14219,03	14309,11	14284,99	14291,45	14290,42
9,406	18499,76	13567,36	14891,61	14537,00	14631,94	14606,52	14613,33	14612,24
9,888	18979,48	13794,13	15186,30	14813,50	14913,31	14886,59	14893,74	14892,60
10,371	19417,74	13979,45	15439,53	15048,54	15153,22	15125,19	15132,70	15131,50
10,853	19814,54	14123,30	15651,29	15242,12	15351,67	15322,34	15330,19	15328,94
11,335	20169,88	14225,70	15821,60	15394,24	15508,66	15478,03	15486,23	15484,92
11,818	20483,76	14286,63	15950,44	15504,90	15624,19	15592,25	15600,80	15599,44
12,300	20756,18	14306,11	16037,83	15574,10	15698,26	15665,02	15673,92	15672,50

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
12,797	20993,49	14282,81	16084,50	15602,03	15731,21	15696,62	15705,88	15704,40
13,294	21186,79	14215,50	16087,16	15585,95	15720,14	15684,22	15693,83	15692,30
13,791	21336,07	14104,18	16045,80	15525,86	15665,07	15627,80	15637,78	15636,19
14,288	21441,35	13948,84	15960,44	15421,76	15565,98	15527,37	15537,71	15536,06
14,785	21502,61	13749,50	15831,06	15273,65	15422,89	15382,93	15393,63	15391,92
15,282	21519,87	13506,14	15657,67	15081,53	15235,78	15194,48	15205,54	15203,78
15,779	21493,11	13218,78	15440,28	14845,39	15004,66	14962,02	14973,44	14971,62
16,276	21422,34	12887,40	15178,87	14565,24	14729,53	14685,55	14697,32	14695,44
16,773	21307,56	12512,01	14873,45	14241,09	14410,39	14365,06	14377,20	14375,26
17,270	21148,77	12092,61	14524,01	13872,92	14047,24	14000,57	14013,06	14011,07
17,767	20945,96	11629,20	14130,57	13460,74	13640,08	13592,06	13604,92	13602,87
18,264	20699,15	11121,77	13693,11	13004,55	13188,90	13139,54	13152,76	13150,65
18,761	20408,32	10570,34	13211,65	12504,34	12693,71	12643,01	12656,59	12654,42
19,258	20073,49	9974,89	12686,17	11960,13	12154,52	12102,47	12116,41	12114,18
19,755	19694,64	9335,43	12116,68	11371,90	11571,31	11517,92	11532,21	11529,93
20,252	19271,78	8651,97	11503,18	10739,67	10944,09	10889,36	10904,01	10901,67
20,748	18804,91	7924,49	10845,67	10063,42	10272,86	10216,78	10231,80	10229,40
21,245	18294,03	7153,00	10144,15	9343,16	9557,61	9500,20	9515,57	9513,12
21,742	17739,13	6337,49	9398,61	8578,89	8798,36	8739,60	8755,33	8752,82
22,239	17140,23	5477,98	8609,07	7770,61	7995,09	7934,99	7951,08	7948,52
22,736	16497,31	4574,45	7775,51	6918,32	7147,82	7086,37	7102,82	7100,20
23,233	15810,38	3626,92	6897,95	6022,01	6256,53	6193,74	6210,55	6207,87
23,730	15079,45	2635,37	5976,37	5081,70	5321,23	5257,10	5274,27	5271,53
24,227	14304,50	1599,81	5010,78	4097,37	4341,92	4276,45	4293,98	4291,18
24,724	13485,54	520,24	4001,18	3069,03	3318,60	3251,78	3269,67	3266,82
25,221	12622,56	-603,34	2947,56	1996,68	2251,27	2183,11	2201,36	2198,44
25,718	11715,58	-1770,93	1849,94	880,32	1139,92	1070,42	1089,03	1086,06
26,215	10764,59	-2982,53	708,30	-280,05	-15,43	-86,28	-67,31	-70,34
26,712	9769,58	-4238,15	-477,34	-1484,43	-1214,80	-1286,99	-1267,66	-1270,74
27,209	8730,56	-5537,78	-1707,00	-2732,83	-2458,18	-2531,71	-2512,02	-2515,16
27,706	7647,53	-6881,41	-2980,67	-4025,23	-3745,57	-3820,44	-3800,39	-3803,59
28,203	6520,49	-8269,06	-4298,35	-5361,65	-5076,97	-5153,18	-5132,78	-5136,03
28,700	5349,44	-9700,72	-5660,04	-6742,08	-6452,38	-6529,94	-6509,17	-6512,49
29,110	4349,57	-10915,60	-6817,19	-7914,69	-7620,85	-7699,52	-7678,46	-7681,82
29,520	3316,00	-12164,17	-8008,04	-9121,00	-8823,02	-8902,80	-8881,44	-8884,84
29,930	2244,98	-13450,19	-9236,34	-10364,75	-10062,63	-10143,52	-10121,86	-10125,32

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
30,340	1132,77	-14777,40	-10505,82	-11649,69	-11343,44	-11425,43	-11403,48	-11406,98
30,750	-24,37	-16149,54	-11820,24	-12979,57	-12669,17	-12752,28	-12730,03	-12733,58
31,160	-1230,19	-17570,36	-13183,34	-14358,12	-14043,59	-14127,80	-14105,25	-14108,85
31,570	-2488,43	-19043,61	-14598,86	-15789,10	-15470,43	-15555,75	-15532,90	-15536,55
31,980	-3802,83	-20573,02	-16070,54	-17276,24	-16953,43	-17039,86	-17016,72	-17020,41
32,390	-5177,15	-22162,34	-17602,14	-18823,30	-18496,35	-18583,88	-18560,45	-18564,19
32,800	-6615,13	-23815,32	-19197,40	-20434,01	-20102,92	-20191,57	-20167,83	-20171,62
33,210	-5861,87	-21991,40	-17585,69	-18765,47	-18449,60	-18534,17	-18511,53	-18515,14
33,620	-5172,27	-20231,15	-16037,63	-17160,60	-16859,94	-16940,43	-16918,88	-16922,32
34,030	-4542,59	-18530,80	-14549,49	-15615,63	-15330,19	-15406,61	-15386,15	-15389,41
34,440	-3969,07	-16886,63	-13117,52	-14126,83	-13856,60	-13928,95	-13909,58	-13912,67
34,850	-3447,97	-15294,87	-11737,97	-12690,45	-12435,44	-12503,71	-12485,43	-12488,35
35,260	-2975,55	-13751,79	-10407,09	-11302,76	-11062,95	-11127,16	-11109,97	-11112,71
35,670	-2548,06	-12253,65	-9121,15	-9959,99	-9735,40	-9795,53	-9779,43	-9782,00
36,080	-2161,76	-10796,70	-7876,40	-8658,41	-8449,04	-8505,10	-8490,09	-8492,48
36,490	-1812,91	-9377,19	-6669,09	-7394,28	-7200,12	-7252,11	-7238,19	-7240,41
36,900	-1497,76	-7991,38	-5495,49	-6163,85	-5984,90	-6032,81	-6019,99	-6022,03
37,356	-1183,41	-6487,41	-4227,30	-4832,53	-4670,49	-4713,87	-4702,26	-4704,11
37,811	-906,05	-5020,43	-2996,10	-3538,19	-3393,05	-3431,91	-3421,51	-3423,17
38,267	-665,67	-3590,43	-1801,88	-2280,83	-2152,60	-2186,93	-2177,74	-2179,21
38,722	-462,27	-2197,41	-644,65	-1060,46	-949,13	-978,93	-970,95	-972,23
39,178	-295,85	-841,38	475,61	122,94	217,36	192,08	198,85	197,77
39,633	-166,42	477,68	1558,88	1269,35	1346,87	1326,11	1331,67	1330,78
40,089	-73,96	1759,75	2605,17	2378,78	2439,39	2423,17	2427,51	2426,82
40,544	-18,49	3004,84	3614,48	3451,23	3494,94	3483,24	3486,37	3485,87
41,000	0,00	4212,95	4586,81	4486,70	4513,50	4506,33	4508,25	4507,94
41,492	0,00	5476,17	5595,39	5563,46	5572,01	5569,72	5570,34	5570,24
41,984	0,00	6696,26	6560,83	6597,10	6587,39	6589,99	6589,29	6589,40
42,476	0,00	7873,21	7483,14	7587,59	7559,63	7567,11	7565,11	7565,43
42,968	0,00	9007,02	8362,31	8534,95	8488,73	8501,11	8497,79	8498,32
43,460	0,00	10097,70	9198,34	9439,18	9374,70	9391,96	9387,34	9388,08
43,952	0,00	11145,24	9991,24	10300,27	10217,53	10239,68	10233,75	10234,70
44,444	0,00	12149,65	10741,01	11118,22	11017,23	11044,27	11037,03	11038,18
44,936	0,00	13110,92	11447,64	11893,04	11773,79	11805,72	11797,17	11798,53
45,428	0,00	14029,06	12111,13	12624,72	12487,22	12524,03	12514,18	12515,75
45,920	0,00	14904,06	12731,49	13313,27	13157,51	13199,21	13188,05	13189,83

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
46,412	0,00	15735,93	13308,71	13958,68	13784,66	13831,25	13818,78	13820,77
46,904	0,00	16524,66	13842,80	14560,96	14368,68	14420,16	14406,38	14408,58
47,396	0,00	17270,25	14333,75	15120,10	14909,57	14965,94	14950,84	14953,25
47,888	0,00	17972,71	14781,57	15636,11	15407,32	15468,57	15452,17	15454,79
48,380	0,00	18632,04	15186,25	16108,98	15861,93	15928,07	15910,37	15913,19
48,872	0,00	19248,23	15547,79	16538,72	16273,41	16344,44	16325,42	16328,46
49,364	0,00	19821,28	15866,20	16925,32	16641,75	16717,67	16697,35	16700,59
49,856	0,00	20351,20	16141,48	17268,78	16966,96	17047,77	17026,13	17029,58
50,348	0,00	20837,98	16373,62	17569,11	17249,03	17334,73	17311,78	17315,44
50,840	0,00	21281,63	16562,62	17826,30	17487,97	17578,55	17554,30	17558,17
51,332	0,00	21682,14	16708,49	18040,36	17683,77	17779,24	17753,68	17757,76
51,824	0,00	22039,52	16811,22	18211,28	17836,44	17936,79	17909,93	17914,21
52,316	0,00	22353,76	16870,82	18339,07	17945,97	18051,21	18023,04	18027,53
52,808	0,00	22624,86	16887,28	18423,72	18012,36	18122,50	18093,01	18097,71
53,300	0,00	22852,83	16860,61	18465,24	18035,62	18150,64	18119,85	18124,76
53,797	0,00	23039,31	16789,87	18463,38	18015,32	18135,28	18103,17	18108,29
54,294	0,00	23181,78	16675,13	18417,52	17951,02	18075,91	18042,47	18047,81
54,791	0,00	23280,24	16516,37	18327,64	17842,70	17972,53	17937,77	17943,31
55,288	0,00	23334,69	16313,60	18193,75	17690,37	17825,14	17789,05	17794,81
55,785	0,00	23345,13	16066,82	18015,85	17494,02	17633,73	17596,33	17602,29
56,282	0,00	23311,55	15776,03	17793,94	17253,67	17398,32	17359,59	17365,77
56,779	0,00	23233,97	15441,23	17528,01	16969,31	17118,89	17078,84	17085,23
57,276	0,00	23112,37	15062,42	17218,08	16640,93	16795,45	16754,08	16760,68
57,773	0,00	22946,76	14639,59	16864,13	16268,54	16428,00	16385,31	16392,12
58,270	0,00	22737,14	14172,76	16466,18	15852,15	16016,54	15972,53	15979,55
58,767	0,00	22483,51	13661,91	16024,21	15391,74	15561,07	15515,73	15522,96
59,264	0,00	22185,87	13107,05	15538,23	14887,32	15061,59	15014,93	15022,37
59,761	0,00	21844,21	12508,18	15008,24	14338,88	14518,09	14470,11	14477,76
60,258	0,00	21458,55	11865,30	14434,24	13746,44	13930,59	13881,28	13889,15
60,755	0,00	21028,87	11178,41	13816,22	13109,99	13299,07	13248,44	13256,52
61,252	0,00	20555,18	10447,51	13154,20	12429,52	12623,54	12571,59	12579,88
61,748	0,00	20037,49	9672,59	12448,16	11705,04	11904,00	11850,73	11859,23
62,245	0,00	19475,78	8853,67	11698,12	10936,55	11140,45	11085,86	11094,57
62,742	0,00	18870,05	7990,73	10904,06	10124,05	10332,89	10276,98	10285,89
63,239	0,00	18220,32	7083,78	10065,99	9267,54	9481,31	9424,08	9433,21
63,736	0,00	17526,58	6132,82	9183,91	8367,02	8585,73	8527,17	8536,51

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
64,233	0,00	16788,82	5137,85	8257,81	7422,49	7646,13	7586,26	7595,81
64,730	0,00	16007,06	4098,87	7287,71	6433,94	6662,52	6601,33	6611,09
65,227	0,00	15181,28	3015,87	6273,60	5401,39	5634,91	5572,39	5582,36
65,724	0,00	14311,49	1888,87	5215,47	4324,82	4563,28	4499,43	4509,62
66,221	0,00	13397,69	717,85	4113,33	3204,24	3447,64	3382,47	3392,86
66,718	0,00	12439,88	-497,17	2967,19	2039,65	2287,98	2221,50	2232,10
67,215	0,00	11438,06	-1756,21	1777,03	831,05	1084,32	1016,51	1027,33
67,712	0,00	10392,22	-3059,26	542,85	-421,56	-163,36	-232,49	-221,46
68,209	0,00	9302,38	-4406,32	-735,33	-1718,18	-1455,04	-1525,49	-1514,26
68,706	0,00	8168,52	-5797,39	-2057,52	-3058,82	-2790,74	-2862,51	-2851,07
69,203	0,00	6990,65	-7232,48	-3423,73	-4443,47	-4170,45	-4243,54	-4231,89
69,700	0,00	5768,77	-8711,57	-4833,94	-5872,12	-5594,17	-5668,59	-5656,72
70,110	0,00	4726,97	-9965,58	-6031,13	-7084,52	-6802,49	-6878,00	-6865,96
70,520	0,00	3651,46	-11253,29	-7262,01	-8330,62	-8044,52	-8121,12	-8108,90
70,930	0,00	2538,51	-12578,45	-8530,34	-9614,16	-9323,99	-9401,68	-9389,29
71,340	0,00	1384,37	-13944,79	-9839,86	-10938,89	-10644,65	-10723,43	-10710,86
71,750	0,00	185,30	-15356,06	-11194,31	-12308,56	-12010,24	-12090,11	-12077,37
72,160	0,00	-1062,45	-16816,02	-12597,44	-13726,90	-13424,51	-13505,47	-13492,56
72,570	0,00	-2362,63	-18328,39	-14052,99	-15197,67	-14891,20	-14973,25	-14960,16
72,980	0,00	-3718,97	-19896,94	-15564,71	-16724,60	-16414,06	-16497,20	-16483,94
73,390	0,00	-5135,22	-21525,39	-17136,34	-18311,45	-17996,83	-18081,06	-18067,63
73,800	0,00	-6615,13	-23217,51	-18771,62	-19961,95	-19643,26	-19728,58	-19714,97
74,210	0,00	-5861,87	-21399,57	-17163,74	-18297,83	-17994,20	-18075,49	-18062,52
74,620	0,00	-5172,27	-19645,29	-15619,52	-16697,36	-16408,79	-16486,05	-16473,73
75,030	0,00	-4542,59	-17950,93	-14135,20	-15156,81	-14883,29	-14956,52	-14944,84
75,440	0,00	-3969,07	-16312,73	-12707,06	-13672,42	-13413,96	-13483,16	-13472,13
75,850	0,00	-3447,97	-14726,95	-11331,33	-12240,46	-11997,06	-12062,23	-12051,83
76,260	0,00	-2975,55	-13189,85	-10004,29	-10857,18	-10628,83	-10689,97	-10680,22
76,670	0,00	-2548,06	-11697,69	-8722,18	-9518,83	-9305,54	-9362,64	-9353,53
77,080	0,00	-2161,76	-10246,71	-7481,25	-8221,66	-8023,43	-8076,51	-8068,04
77,490	0,00	-1812,91	-8833,18	-6277,77	-6961,95	-6778,77	-6827,81	-6819,99
77,900	0,00	-1497,76	-7453,35	-5107,99	-5735,93	-5567,81	-5612,82	-5605,64
78,356	0,00	-1183,41	-5956,03	-3844,06	-4409,51	-4258,12	-4298,66	-4292,19
78,811	0,00	-906,05	-4495,69	-2617,12	-3120,08	-2985,42	-3021,47	-3015,72
79,267	0,00	-665,67	-3072,33	-1427,15	-1867,62	-1749,70	-1781,27	-1776,23
79,722	0,00	-462,27	-1685,95	-274,17	-652,15	-550,95	-578,05	-573,73

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
80,178	0,00	-295,85	-336,56	841,83	526,34	610,80	588,19	591,80
80,633	0,00	-166,42	975,85	1920,85	1667,84	1735,58	1717,45	1720,34
81,089	0,00	-73,96	2251,28	2962,89	2772,37	2823,38	2809,72	2811,90
81,544	0,00	-18,49	3489,73	3967,95	3839,91	3874,19	3865,02	3866,48
82,000	0,00	0,00	4691,20	4936,03	4870,48	4888,03	4883,33	4884,08
82,492	0,00	0,00	5947,25	5940,01	5941,95	5941,43	5941,57	5941,54
82,984	0,00	0,00	7160,16	6900,86	6970,28	6951,69	6956,67	6955,88
83,476	0,00	0,00	8329,93	7818,57	7955,48	7918,82	7928,64	7927,07
83,968	0,00	0,00	9456,57	8693,15	8897,54	8842,82	8857,47	8855,13
84,460	0,00	0,00	10540,08	9524,59	9796,47	9723,68	9743,17	9740,06
84,952	0,00	0,00	11580,45	10312,89	10652,26	10561,40	10585,73	10581,85
85,444	0,00	0,00	12577,68	11058,07	11464,92	11355,99	11385,16	11380,51
85,936	0,00	0,00	13531,78	11760,10	12234,44	12107,45	12141,45	12136,02
86,428	0,00	0,00	14442,75	12419,00	12960,83	12815,77	12854,60	12848,41
86,920	0,00	0,00	15310,57	13034,77	13644,08	13480,95	13524,62	13517,66
87,412	0,00	0,00	16135,27	13607,39	14284,20	14103,00	14151,51	14143,77
87,904	0,00	0,00	16916,82	14136,89	14881,18	14681,91	14735,26	14726,75
88,396	0,00	0,00	17655,24	14623,25	15435,02	15217,68	15275,87	15266,59
88,888	0,00	0,00	18350,53	15066,47	15945,73	15710,32	15773,35	15763,30
89,380	0,00	0,00	19002,68	15466,56	16413,30	16159,83	16227,69	16216,87
89,872	0,00	0,00	19611,70	15823,51	16837,74	16566,20	16638,90	16627,30
90,364	0,00	0,00	20177,58	16137,33	17219,05	16929,43	17006,97	16994,60
90,856	0,00	0,00	20700,32	16408,01	17557,21	17249,53	17331,91	17318,77
91,348	0,00	0,00	21179,93	16635,55	17852,25	17526,50	17613,71	17599,80
91,840	0,00	0,00	21616,40	16819,96	18104,14	17760,33	17852,38	17837,69
92,332	0,00	0,00	22009,74	16961,24	18312,90	17951,02	18047,91	18032,45
92,824	0,00	0,00	22359,94	17059,38	18478,53	18098,58	18200,30	18184,08
93,316	0,00	0,00	22667,01	17114,38	18601,02	18203,00	18309,56	18292,56
93,808	0,00	0,00	22930,94	17126,25	18680,37	18264,28	18375,68	18357,92
94,300	0,00	0,00	23151,74	17094,98	18716,59	18282,43	18398,67	18380,13
94,797	0,00	0,00	23330,97	17019,61	18709,39	18256,98	18378,10	18358,78
95,294	0,00	0,00	23466,20	16900,22	18658,17	18187,51	18313,52	18293,42
95,791	0,00	0,00	23557,41	16736,82	18562,94	18074,03	18204,93	18184,05
96,288	0,00	0,00	23604,61	16529,42	18423,70	17916,54	18052,32	18030,67
96,785	0,00	0,00	23607,80	16278,00	18240,45	17715,04	17855,71	17833,27
97,282	0,00	0,00	23566,98	15982,57	18013,19	17469,52	17615,08	17591,86

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
97,779	0,00	0,00	23482,15	15643,13	17741,91	17180,00	17330,44	17306,45
98,276	0,00	0,00	23353,31	15259,67	17426,63	16846,46	17001,79	16977,02
98,773	0,00	0,00	23180,45	14832,21	17067,33	16468,92	16629,13	16603,58
99,270	0,00	0,00	22963,58	14360,73	16664,03	16047,36	16212,46	16186,13
99,767	0,00	0,00	22702,71	13845,25	16216,71	15581,79	15751,78	15724,66
100,264	0,00	0,00	22397,82	13285,75	15725,38	15072,21	15247,08	15219,19
100,761	0,00	0,00	22048,92	12682,24	15190,04	14518,62	14698,38	14669,71
101,258	0,00	0,00	21656,01	12034,72	14610,68	13921,01	14105,66	14076,21
101,755	0,00	0,00	21219,08	11343,19	13987,32	13279,40	13468,93	13438,70
102,252	0,00	0,00	20738,15	10607,64	13319,94	12593,77	12788,19	12757,18
102,748	0,00	0,00	20213,21	9828,09	12608,56	11864,14	12063,44	12031,65
103,245	0,00	0,00	19644,25	9004,52	11853,16	11090,49	11294,68	11262,11
103,742	0,00	0,00	19031,28	8136,95	11053,75	10272,83	10481,91	10448,56
104,239	0,00	0,00	18374,30	7225,36	10210,33	9411,16	9625,12	9590,99
104,736	0,00	0,00	17673,31	6269,76	9322,90	8505,48	8724,33	8689,42
105,233	0,00	0,00	16928,31	5270,15	8391,46	7555,78	7779,52	7743,83
105,730	0,00	0,00	16139,30	4226,53	7416,00	6562,08	6790,70	6754,23
106,227	0,00	0,00	15306,28	3138,89	6396,54	5524,36	5757,87	5720,63
106,724	0,00	0,00	14429,24	2007,25	5333,06	4442,63	4681,03	4643,01
107,221	0,00	0,00	13508,19	831,59	4225,57	3316,90	3560,18	3521,37
107,718	0,00	0,00	12543,14	-388,08	3074,08	2147,15	2395,31	2355,73
108,215	0,00	0,00	11534,07	-1651,75	1878,57	933,38	1186,44	1146,08
108,712	0,00	0,00	10480,99	-2959,44	639,04	-324,39	-66,45	-107,59
109,209	0,00	0,00	9383,90	-4311,14	-644,49	-1626,17	-1363,34	-1405,27
109,706	0,00	0,00	8242,79	-5706,86	-1972,03	-2971,97	-2704,25	-2746,95
110,203	0,00	0,00	7057,68	-7146,58	-3343,59	-4361,77	-4089,17	-4132,65
110,700	0,00	0,00	5828,55	-8630,31	-4759,15	-5795,59	-5518,10	-5562,36
111,110	0,00	0,00	4780,77	-9888,15	-5960,75	-7012,25	-6730,73	-6775,63
111,520	0,00	0,00	3699,29	-11179,69	-7196,05	-8262,60	-7977,05	-8022,60
111,930	0,00	0,00	2580,36	-12508,67	-8468,79	-9550,40	-9260,82	-9307,01
112,340	0,00	0,00	1420,24	-13878,84	-9782,73	-10879,39	-10585,78	-10632,61
112,750	0,00	0,00	215,19	-15293,94	-11141,59	-12253,31	-11955,67	-12003,14
113,160	0,00	0,00	-1038,54	-16757,73	-12549,13	-13675,91	-13374,24	-13422,35
113,570	0,00	0,00	-2344,69	-18273,93	-14009,10	-15150,93	-14845,23	-14893,99
113,980	0,00	0,00	-3707,01	-19846,30	-15525,23	-16682,12	-16372,39	-16421,79
114,390	0,00	0,00	-5129,24	-21478,59	-17101,28	-18273,23	-17959,46	-18009,50

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
114,800	0,00	0,00	-6615,13	-23174,53	-18740,98	-19927,98	-19610,18	-19660,87
115,210	0,00	0,00	-5861,87	-21357,02	-17133,37	-18264,18	-17961,43	-18009,72
115,620	0,00	0,00	-5172,27	-19603,17	-15589,42	-16664,03	-16376,33	-16422,22
116,030	0,00	0,00	-4542,59	-17909,24	-14105,39	-15123,80	-14851,14	-14894,63
116,440	0,00	0,00	-3969,07	-16271,47	-12677,51	-13639,73	-13382,12	-13423,21
116,850	0,00	0,00	-3447,97	-14686,12	-11302,07	-12208,09	-11965,52	-12004,21
117,260	0,00	0,00	-2975,55	-13149,45	-9975,30	-10825,12	-10597,59	-10633,89
117,670	0,00	0,00	-2548,06	-11657,72	-8693,46	-9487,09	-9274,61	-9308,50
118,080	0,00	0,00	-2161,76	-10207,17	-7452,81	-8190,24	-7992,81	-8024,30
118,490	0,00	0,00	-1812,91	-8794,07	-6249,61	-6930,84	-6748,45	-6777,55
118,900	0,00	0,00	-1497,76	-7414,66	-5080,10	-5705,14	-5537,80	-5564,49
119,356	0,00	0,00	-1183,41	-5917,82	-3816,48	-4379,08	-4228,45	-4252,48
119,811	0,00	0,00	-906,05	-4457,96	-2589,84	-3090,00	-2956,09	-2977,45
120,267	0,00	0,00	-665,67	-3035,08	-1400,18	-1837,90	-1720,71	-1739,40
120,722	0,00	0,00	-462,27	-1649,18	-247,50	-622,78	-522,31	-538,33
121,178	0,00	0,00	-295,85	-300,26	868,19	555,36	639,11	625,75
121,633	0,00	0,00	-166,42	1011,67	1946,91	1696,51	1763,55	1752,86
122,089	0,00	0,00	-73,96	2286,62	2988,64	2800,69	2851,01	2842,98
122,544	0,00	0,00	-18,49	3524,59	3993,39	3867,88	3901,48	3896,12
123,000	0,00	0,00	0,00	4725,58	4961,16	4898,09	4914,97	4912,28
123,492	0,00	0,00	0,00	5981,12	5964,81	5969,18	5968,01	5968,19
123,984	0,00	0,00	0,00	7193,51	6925,33	6997,13	6977,91	6980,97
124,476	0,00	0,00	0,00	8362,77	7842,71	7981,95	7944,67	7950,61
124,968	0,00	0,00	0,00	9488,90	8716,96	8923,63	8868,30	8877,12
125,460	0,00	0,00	0,00	10571,89	9548,07	9822,18	9748,79	9760,49
125,952	0,00	0,00	0,00	11611,74	10336,04	10677,59	10586,15	10600,73
126,444	0,00	0,00	0,00	12608,46	11080,88	11489,86	11380,37	11397,83
126,936	0,00	0,00	0,00	13562,04	11782,59	12259,00	12131,45	12151,80
127,428	0,00	0,00	0,00	14472,49	12441,16	12985,01	12839,40	12862,63
127,920	0,00	0,00	0,00	15339,80	13056,59	13667,88	13504,22	13530,32
128,412	0,00	0,00	0,00	16163,98	13628,89	14307,61	14125,90	14154,88
128,904	0,00	0,00	0,00	16945,02	14158,05	14904,21	14704,44	14736,31
129,396	0,00	0,00	0,00	17682,92	14644,08	15457,68	15239,85	15274,59
129,888	0,00	0,00	0,00	18377,69	15086,97	15968,00	15732,12	15769,75
130,380	0,00	0,00	0,00	19029,33	15486,73	16435,20	16181,26	16221,76
130,872	0,00	0,00	0,00	19637,83	15843,35	16859,25	16587,26	16630,65

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
131,364	0,00	0,00	0,00	20203,19	16156,83	17240,18	16950,13	16996,39
131,856	0,00	0,00	0,00	20725,42	16427,18	17577,96	17269,86	17319,00
132,348	0,00	0,00	0,00	21204,51	16654,40	17872,61	17546,46	17598,48
132,840	0,00	0,00	0,00	21640,47	16838,48	18124,13	17779,92	17834,82
133,332	0,00	0,00	0,00	22033,29	16979,42	18332,51	17970,24	18028,03
133,824	0,00	0,00	0,00	22382,98	17077,23	18497,75	18117,43	18178,10
134,316	0,00	0,00	0,00	22689,53	17131,90	18619,86	18221,49	18285,03
134,808	0,00	0,00	0,00	22952,95	17143,44	18698,83	18282,41	18348,83
135,300	0,00	0,00	0,00	23173,23	17111,84	18734,67	18300,19	18369,49
135,797	0,00	0,00	0,00	23351,94	17036,14	18727,08	18274,36	18346,57
136,294	0,00	0,00	0,00	23486,65	16916,42	18675,48	18204,52	18279,64
136,791	0,00	0,00	0,00	23577,34	16752,69	18579,87	18090,67	18168,70
137,288	0,00	0,00	0,00	23624,02	16544,94	18440,24	17932,81	18013,75
137,785	0,00	0,00	0,00	23626,69	16293,19	18256,60	17730,94	17814,78
138,282	0,00	0,00	0,00	23585,35	15997,43	18028,96	17485,05	17571,81
138,779	0,00	0,00	0,00	23499,99	15657,65	17757,30	17195,16	17284,82
139,276	0,00	0,00	0,00	23370,63	15273,86	17441,63	16861,25	16953,82
139,773	0,00	0,00	0,00	23197,25	14846,06	17081,95	16483,33	16578,81
140,270	0,00	0,00	0,00	22979,86	14374,25	16678,26	16061,40	16159,79
140,767	0,00	0,00	0,00	22718,47	13858,43	16230,55	15595,46	15696,76
141,264	0,00	0,00	0,00	22413,06	13298,60	15738,84	15085,51	15189,71
141,761	0,00	0,00	0,00	22063,64	12694,76	15203,11	14531,54	14638,66
142,258	0,00	0,00	0,00	21670,20	12046,90	14623,37	13933,57	14043,59
142,755	0,00	0,00	0,00	21232,76	11355,04	13999,62	13291,58	13404,52
143,252	0,00	0,00	0,00	20751,31	10619,16	13331,86	12605,59	12721,43
143,748	0,00	0,00	0,00	20225,84	9839,27	12620,09	11875,58	11994,33
144,245	0,00	0,00	0,00	19656,36	9015,37	11864,31	11101,56	11223,22
144,742	0,00	0,00	0,00	19042,87	8147,46	11064,52	10283,53	10408,10
145,239	0,00	0,00	0,00	18385,37	7235,54	10220,71	9421,48	9548,96
145,736	0,00	0,00	0,00	17683,86	6279,61	9332,89	8515,43	8645,82
146,233	0,00	0,00	0,00	16938,34	5279,66	8401,07	7565,37	7698,66
146,730	0,00	0,00	0,00	16148,81	4235,70	7425,23	6571,29	6707,50
147,227	0,00	0,00	0,00	15315,26	3147,74	6405,38	5533,20	5672,32
147,724	0,00	0,00	0,00	14437,71	2015,76	5341,52	4451,10	4593,13
148,221	0,00	0,00	0,00	13516,14	839,77	4233,64	3324,99	3469,93
148,718	0,00	0,00	0,00	12550,56	-380,23	3081,76	2154,87	2302,71

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
149,215	0,00	0,00	0,00	11540,97	-1644,24	1885,86	940,74	1091,49
149,712	0,00	0,00	0,00	10487,37	-2952,27	645,96	-317,40	-163,74
150,209	0,00	0,00	0,00	9389,76	-4304,30	-637,96	-1619,56	-1462,99
150,706	0,00	0,00	0,00	8248,13	-5700,35	-1965,89	-2965,72	-2806,25
151,203	0,00	0,00	0,00	7062,50	-7140,41	-3337,83	-4355,90	-4193,52
151,700	0,00	0,00	0,00	5832,85	-8624,48	-4753,78	-5790,09	-5624,80
152,110	0,00	0,00	0,00	4784,64	-9882,59	-5955,70	-7007,05	-6839,36
152,520	0,00	0,00	0,00	3702,72	-11174,40	-7191,31	-8257,71	-8087,62
152,930	0,00	0,00	0,00	2583,37	-12503,66	-8464,37	-9545,82	-9373,33
153,340	0,00	0,00	0,00	1422,82	-13874,10	-9778,62	-10875,12	-10700,22
153,750	0,00	0,00	0,00	217,34	-15289,48	-11137,81	-12249,34	-12072,05
154,160	0,00	0,00	0,00	-1036,82	-16753,54	-12545,67	-13672,25	-13492,56
154,570	0,00	0,00	0,00	-2343,40	-18270,02	-14005,95	-15147,58	-14965,49
154,980	0,00	0,00	0,00	-3706,15	-19842,67	-15522,40	-16679,08	-16494,58
155,390	0,00	0,00	0,00	-5128,81	-21475,23	-17098,76	-18270,48	-18083,59
155,800	0,00	0,00	0,00	-6615,13	-23171,44	-18738,78	-19925,55	-19736,26
156,210	0,00	0,00	0,00	-5861,87	-21353,97	-17131,20	-18261,77	-18081,44
156,620	0,00	0,00	0,00	-5172,27	-19600,15	-15587,27	-16661,64	-16490,28
157,030	0,00	0,00	0,00	-4542,59	-17906,25	-14103,25	-15121,43	-14959,03
157,440	0,00	0,00	0,00	-3969,07	-16268,51	-12675,40	-13637,39	-13483,95
157,850	0,00	0,00	0,00	-3447,97	-14683,19	-11299,97	-12205,77	-12061,29
158,260	0,00	0,00	0,00	-2975,55	-13146,55	-9973,22	-10822,82	-10687,31
158,670	0,00	0,00	0,00	-2548,06	-11654,85	-8691,40	-9484,81	-9358,26
159,080	0,00	0,00	0,00	-2161,76	-10204,33	-7450,77	-8187,99	-8070,40
159,490	0,00	0,00	0,00	-1812,91	-8791,26	-6247,59	-6928,61	-6819,99
159,900	0,00	0,00	0,00	-1497,76	-7411,89	-5078,10	-5702,93	-5603,27
160,356	0,00	0,00	0,00	-1183,41	-5915,08	-3814,50	-4376,90	-4287,19
160,811	0,00	0,00	0,00	-906,05	-4455,25	-2587,89	-3087,84	-3008,10
161,267	0,00	0,00	0,00	-665,67	-3032,41	-1398,25	-1835,77	-1765,98
161,722	0,00	0,00	0,00	-462,27	-1646,55	-245,59	-620,67	-560,85
162,178	0,00	0,00	0,00	-295,85	-297,66	870,08	557,44	607,31
162,633	0,00	0,00	0,00	-166,42	1014,24	1948,77	1698,57	1738,48
163,089	0,00	0,00	0,00	-73,96	2289,16	2990,48	2802,72	2832,67
163,544	0,00	0,00	0,00	-18,49	3527,09	3995,21	3869,88	3889,87
164,000	0,00	0,00	0,00	0,00	4728,05	4962,96	4900,07	4910,10
164,492	0,00	0,00	0,00	0,00	5983,54	5966,59	5971,13	5970,40

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
164,984	0,00	0,00	0,00	0,00	7195,90	6927,08	6999,05	6987,57
165,476	0,00	0,00	0,00	0,00	8365,13	7844,44	7983,84	7961,61
165,968	0,00	0,00	0,00	0,00	9491,21	8718,66	8925,50	8892,51
166,460	0,00	0,00	0,00	0,00	10574,17	9549,75	9824,02	9780,27
166,952	0,00	0,00	0,00	0,00	11613,98	10337,70	10679,40	10624,90
167,444	0,00	0,00	0,00	0,00	12610,66	11082,52	11491,65	11426,39
167,936	0,00	0,00	0,00	0,00	13564,21	11784,20	12260,77	12184,75
168,428	0,00	0,00	0,00	0,00	14474,62	12442,75	12986,74	12899,97
168,920	0,00	0,00	0,00	0,00	15341,90	13058,16	13669,59	13572,06
169,412	0,00	0,00	0,00	0,00	16166,04	13630,43	14309,29	14201,01
169,904	0,00	0,00	0,00	0,00	16947,04	14159,57	14905,86	14786,83
170,396	0,00	0,00	0,00	0,00	17684,91	14645,57	15459,30	15329,51
170,888	0,00	0,00	0,00	0,00	18379,64	15088,44	15969,60	15829,05
171,380	0,00	0,00	0,00	0,00	19031,24	15488,17	16436,77	16285,46
171,872	0,00	0,00	0,00	0,00	19639,70	15844,77	16860,80	16698,74
172,364	0,00	0,00	0,00	0,00	20205,03	16158,23	17241,69	17068,88
172,856	0,00	0,00	0,00	0,00	20727,22	16428,56	17579,45	17395,88
173,348	0,00	0,00	0,00	0,00	21206,28	16655,75	17874,07	17679,75
173,840	0,00	0,00	0,00	0,00	21642,20	16839,81	18125,56	17920,48
174,332	0,00	0,00	0,00	0,00	22034,98	16980,73	18333,91	18118,08
174,824	0,00	0,00	0,00	0,00	22384,63	17078,51	18499,13	18272,54
175,316	0,00	0,00	0,00	0,00	22691,15	17133,16	18621,21	18383,86
175,808	0,00	0,00	0,00	0,00	22954,53	17144,67	18700,16	18452,06
176,300	0,00	0,00	0,00	0,00	23174,77	17113,05	18735,97	18477,11
176,797	0,00	0,00	0,00	0,00	23353,45	17037,32	18728,35	18458,63
177,294	0,00	0,00	0,00	0,00	23488,11	16917,58	18676,72	18396,13
177,791	0,00	0,00	0,00	0,00	23578,77	16753,82	18581,08	18289,63
178,288	0,00	0,00	0,00	0,00	23625,41	16546,06	18441,43	18139,11
178,785	0,00	0,00	0,00	0,00	23628,04	16294,28	18257,76	17944,58
179,282	0,00	0,00	0,00	0,00	23586,66	15998,49	18030,09	17706,04
179,779	0,00	0,00	0,00	0,00	23501,27	15658,69	17758,40	17423,49
180,276	0,00	0,00	0,00	0,00	23371,87	15274,88	17442,70	17096,93
180,773	0,00	0,00	0,00	0,00	23198,46	14847,06	17083,00	16726,36
181,270	0,00	0,00	0,00	0,00	22981,03	14375,22	16679,28	16311,77
181,767	0,00	0,00	0,00	0,00	22719,60	13859,38	16231,54	15853,18
182,264	0,00	0,00	0,00	0,00	22414,15	13299,52	15739,80	15350,57

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
182,761	0,00	0,00	0,00	0,00	22064,69	12695,66	15204,05	14803,95
183,258	0,00	0,00	0,00	0,00	21671,22	12047,78	14624,28	14213,32
183,755	0,00	0,00	0,00	0,00	21233,74	11355,89	14000,51	13578,68
184,252	0,00	0,00	0,00	0,00	20752,25	10619,99	13332,72	12900,03
184,748	0,00	0,00	0,00	0,00	20226,75	9840,07	12620,92	12177,37
185,245	0,00	0,00	0,00	0,00	19657,23	9016,15	11865,11	11410,69
185,742	0,00	0,00	0,00	0,00	19043,70	8148,22	11065,29	10600,01
186,239	0,00	0,00	0,00	0,00	18386,17	7236,27	10221,46	9745,31
186,736	0,00	0,00	0,00	0,00	17684,62	6280,31	9333,61	8846,60
187,233	0,00	0,00	0,00	0,00	16939,06	5280,34	8401,76	7903,88
187,730	0,00	0,00	0,00	0,00	16149,49	4236,36	7425,89	6917,15
188,227	0,00	0,00	0,00	0,00	15315,91	3148,37	6406,01	5886,41
188,724	0,00	0,00	0,00	0,00	14438,31	2016,37	5342,12	4811,66
189,221	0,00	0,00	0,00	0,00	13516,71	840,35	4234,22	3692,89
189,718	0,00	0,00	0,00	0,00	12551,09	-379,67	3082,31	2530,12
190,215	0,00	0,00	0,00	0,00	11541,47	-1643,71	1886,39	1323,33
190,712	0,00	0,00	0,00	0,00	10487,83	-2951,75	646,45	72,53
191,209	0,00	0,00	0,00	0,00	9390,18	-4303,81	-637,49	-1222,28
191,706	0,00	0,00	0,00	0,00	8248,52	-5699,88	-1965,45	-2561,10
192,203	0,00	0,00	0,00	0,00	7062,84	-7139,96	-3337,42	-3943,93
192,700	0,00	0,00	0,00	0,00	5833,16	-8624,06	-4753,40	-5370,78
193,110	0,00	0,00	0,00	0,00	4784,92	-9882,19	-5955,33	-6581,68
193,520	0,00	0,00	0,00	0,00	3702,97	-11174,02	-7190,97	-7826,28
193,930	0,00	0,00	0,00	0,00	2583,58	-12503,30	-8464,06	-9108,33
194,340	0,00	0,00	0,00	0,00	1423,00	-13873,77	-9778,33	-10431,56
194,750	0,00	0,00	0,00	0,00	217,49	-15289,16	-11137,53	-11799,73
195,160	0,00	0,00	0,00	0,00	-1036,70	-16753,24	-12545,42	-13216,58
195,570	0,00	0,00	0,00	0,00	-2343,31	-18269,74	-14005,72	-14685,85
195,980	0,00	0,00	0,00	0,00	-3706,09	-19842,41	-15522,20	-16211,28
196,390	0,00	0,00	0,00	0,00	-5128,78	-21474,99	-17098,58	-17796,63
196,800	0,00	0,00	0,00	0,00	-6615,13	-23171,22	-18738,62	-19445,63
197,210	0,00	0,00	0,00	0,00	-5861,87	-21353,75	-17131,04	-17804,57
197,620	0,00	0,00	0,00	0,00	-5172,27	-19599,94	-15587,11	-16227,17
198,030	0,00	0,00	0,00	0,00	-4542,59	-17906,03	-14103,09	-14709,67
198,440	0,00	0,00	0,00	0,00	-3969,07	-16268,30	-12675,24	-13248,34
198,850	0,00	0,00	0,00	0,00	-3447,97	-14682,98	-11299,82	-11839,44

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
199,260	0,00	0,00	0,00	0,00	-2975,55	-13146,35	-9973,07	-10479,21
199,670	0,00	0,00	0,00	0,00	-2548,06	-11654,64	-8691,25	-9163,92
200,080	0,00	0,00	0,00	0,00	-2161,76	-10204,13	-7450,63	-7889,82
200,490	0,00	0,00	0,00	0,00	-1812,91	-8791,06	-6247,44	-6653,16
200,900	0,00	0,00	0,00	0,00	-1497,76	-7411,69	-5077,96	-5450,20
201,356	0,00	0,00	0,00	0,00	-1183,41	-5914,89	-3814,36	-4149,40
201,811	0,00	0,00	0,00	0,00	-906,05	-4455,06	-2587,75	-2885,59
202,267	0,00	0,00	0,00	0,00	-665,67	-3032,22	-1398,11	-1658,75
202,722	0,00	0,00	0,00	0,00	-462,27	-1646,36	-245,46	-468,90
203,178	0,00	0,00	0,00	0,00	-295,85	-297,48	870,22	683,97
203,633	0,00	0,00	0,00	0,00	-166,42	1014,42	1948,91	1799,85
204,089	0,00	0,00	0,00	0,00	-73,96	2289,34	2990,62	2878,76
204,544	0,00	0,00	0,00	0,00	-18,49	3527,27	3995,34	3920,69
205,000	0,00	0,00	0,00	0,00	0,00	4728,23	4963,09	4925,63
205,492	0,00	0,00	0,00	0,00	0,00	5983,72	5966,72	5969,43
205,984	0,00	0,00	0,00	0,00	0,00	7196,07	6927,21	6970,09
206,476	0,00	0,00	0,00	0,00	0,00	8365,29	7844,56	7927,62
206,968	0,00	0,00	0,00	0,00	0,00	9491,38	8718,79	8842,02
207,460	0,00	0,00	0,00	0,00	0,00	10574,33	9549,87	9713,27
207,952	0,00	0,00	0,00	0,00	0,00	11614,14	10337,82	10541,40
208,444	0,00	0,00	0,00	0,00	0,00	12610,82	11082,64	11326,39
208,936	0,00	0,00	0,00	0,00	0,00	13564,37	11784,32	12068,24
209,428	0,00	0,00	0,00	0,00	0,00	14474,77	12442,86	12766,95
209,920	0,00	0,00	0,00	0,00	0,00	15342,05	13058,27	13422,54
210,412	0,00	0,00	0,00	0,00	0,00	16166,18	13630,54	14034,98
210,904	0,00	0,00	0,00	0,00	0,00	16947,18	14159,68	14604,29
211,396	0,00	0,00	0,00	0,00	0,00	17685,05	14645,68	15130,47
211,888	0,00	0,00	0,00	0,00	0,00	18379,78	15088,55	15613,51
212,380	0,00	0,00	0,00	0,00	0,00	19031,38	15488,28	16053,41
212,872	0,00	0,00	0,00	0,00	0,00	19639,84	15844,87	16450,18
213,364	0,00	0,00	0,00	0,00	0,00	20205,16	16158,33	16803,81
213,856	0,00	0,00	0,00	0,00	0,00	20727,35	16428,66	17114,31
214,348	0,00	0,00	0,00	0,00	0,00	21206,40	16655,85	17381,67
214,840	0,00	0,00	0,00	0,00	0,00	21642,32	16839,90	17605,90
215,332	0,00	0,00	0,00	0,00	0,00	22035,10	16980,82	17786,99
215,824	0,00	0,00	0,00	0,00	0,00	22384,75	17078,60	17924,95

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
216,316	0,00	0,00	0,00	0,00	0,00	22691,26	17133,25	18019,77
216,808	0,00	0,00	0,00	0,00	0,00	22954,64	17144,76	18071,45
217,300	0,00	0,00	0,00	0,00	0,00	23174,88	17113,14	18080,00
217,797	0,00	0,00	0,00	0,00	0,00	23353,55	17037,41	18044,85
218,294	0,00	0,00	0,00	0,00	0,00	23488,22	16917,66	17965,68
218,791	0,00	0,00	0,00	0,00	0,00	23578,87	16753,90	17842,50
219,288	0,00	0,00	0,00	0,00	0,00	23625,51	16546,14	17675,31
219,785	0,00	0,00	0,00	0,00	0,00	23628,14	16294,36	17464,11
220,282	0,00	0,00	0,00	0,00	0,00	23586,76	15998,57	17208,90
220,779	0,00	0,00	0,00	0,00	0,00	23501,36	15658,77	16909,68
221,276	0,00	0,00	0,00	0,00	0,00	23371,96	15274,95	16566,44
221,773	0,00	0,00	0,00	0,00	0,00	23198,54	14847,13	16179,20
222,270	0,00	0,00	0,00	0,00	0,00	22981,12	14375,29	15747,94
222,767	0,00	0,00	0,00	0,00	0,00	22719,68	13859,45	15272,67
223,264	0,00	0,00	0,00	0,00	0,00	22414,23	13299,59	14753,40
223,761	0,00	0,00	0,00	0,00	0,00	22064,77	12695,72	14190,11
224,258	0,00	0,00	0,00	0,00	0,00	21671,29	12047,84	13582,80
224,755	0,00	0,00	0,00	0,00	0,00	21233,81	11355,95	12931,49
225,252	0,00	0,00	0,00	0,00	0,00	20752,32	10620,05	12236,17
225,748	0,00	0,00	0,00	0,00	0,00	20226,81	9840,13	11496,83
226,245	0,00	0,00	0,00	0,00	0,00	19657,29	9016,21	10713,48
226,742	0,00	0,00	0,00	0,00	0,00	19043,76	8148,27	9886,13
227,239	0,00	0,00	0,00	0,00	0,00	18386,22	7236,32	9014,76
227,736	0,00	0,00	0,00	0,00	0,00	17684,67	6280,36	8099,38
228,233	0,00	0,00	0,00	0,00	0,00	16939,11	5280,39	7139,98
228,730	0,00	0,00	0,00	0,00	0,00	16149,54	4236,41	6136,58
229,227	0,00	0,00	0,00	0,00	0,00	15315,95	3148,42	5089,17
229,724	0,00	0,00	0,00	0,00	0,00	14438,36	2016,41	3997,74
230,221	0,00	0,00	0,00	0,00	0,00	13516,75	840,40	2862,30
230,718	0,00	0,00	0,00	0,00	0,00	12551,13	-379,63	1682,86
231,215	0,00	0,00	0,00	0,00	0,00	11541,50	-1643,67	459,40
231,712	0,00	0,00	0,00	0,00	0,00	10487,86	-2951,72	-808,07
232,209	0,00	0,00	0,00	0,00	0,00	9390,21	-4303,78	-2119,56
232,706	0,00	0,00	0,00	0,00	0,00	8248,54	-5699,85	-3475,05
233,203	0,00	0,00	0,00	0,00	0,00	7062,87	-7139,93	-4874,55
233,700	0,00	0,00	0,00	0,00	0,00	5833,18	-8624,03	-6318,07

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
234,110	0,00	0,00	0,00	0,00	0,00	4784,94	-9882,16	-7542,73
234,520	0,00	0,00	0,00	0,00	0,00	3702,99	-11174,00	-8801,08
234,930	0,00	0,00	0,00	0,00	0,00	2583,60	-12503,27	-10096,88
235,340	0,00	0,00	0,00	0,00	0,00	1423,02	-13873,74	-11433,87
235,750	0,00	0,00	0,00	0,00	0,00	217,50	-15289,14	-12815,80
236,160	0,00	0,00	0,00	0,00	0,00	-1036,69	-16753,22	-14246,40
236,570	0,00	0,00	0,00	0,00	0,00	-2343,30	-18269,72	-15729,42
236,980	0,00	0,00	0,00	0,00	0,00	-3706,09	-19842,39	-17268,61
237,390	0,00	0,00	0,00	0,00	0,00	-5128,78	-21474,97	-18867,72
237,800	0,00	0,00	0,00	0,00	0,00	-6615,13	-23171,21	-20530,47
238,210	0,00	0,00	0,00	0,00	0,00	-5861,87	-21353,74	-18838,04
238,620	0,00	0,00	0,00	0,00	0,00	-5172,27	-19599,92	-17209,27
239,030	0,00	0,00	0,00	0,00	0,00	-4542,59	-17906,02	-15640,41
239,440	0,00	0,00	0,00	0,00	0,00	-3969,07	-16268,28	-14127,71
239,850	0,00	0,00	0,00	0,00	0,00	-3447,97	-14682,97	-12667,44
240,260	0,00	0,00	0,00	0,00	0,00	-2975,55	-13146,33	-11255,84
240,670	0,00	0,00	0,00	0,00	0,00	-2548,06	-11654,63	-9889,18
241,080	0,00	0,00	0,00	0,00	0,00	-2161,76	-10204,12	-8563,71
241,490	0,00	0,00	0,00	0,00	0,00	-1812,91	-8791,05	-7275,68
241,900	0,00	0,00	0,00	0,00	0,00	-1497,76	-7411,68	-6021,35
242,356	0,00	0,00	0,00	0,00	0,00	-1183,41	-5914,87	-4663,48
242,811	0,00	0,00	0,00	0,00	0,00	-906,05	-4455,05	-3342,59
243,267	0,00	0,00	0,00	0,00	0,00	-665,67	-3032,20	-2058,68
243,722	0,00	0,00	0,00	0,00	0,00	-462,27	-1646,34	-811,75
244,178	0,00	0,00	0,00	0,00	0,00	-295,85	-297,46	398,19
244,633	0,00	0,00	0,00	0,00	0,00	-166,42	1014,44	1571,16
245,089	0,00	0,00	0,00	0,00	0,00	-73,96	2289,35	2707,14
245,544	0,00	0,00	0,00	0,00	0,00	-18,49	3527,29	3806,14
246,000	0,00	0,00	0,00	0,00	0,00	0,00	4728,24	4868,16
246,492	0,00	0,00	0,00	0,00	0,00	0,00	5983,73	5973,60
246,984	0,00	0,00	0,00	0,00	0,00	0,00	7196,09	7035,91
247,476	0,00	0,00	0,00	0,00	0,00	0,00	8365,31	8055,08
247,968	0,00	0,00	0,00	0,00	0,00	0,00	9491,39	9031,11
248,460	0,00	0,00	0,00	0,00	0,00	0,00	10574,34	9964,01
248,952	0,00	0,00	0,00	0,00	0,00	0,00	11614,15	10853,78
249,444	0,00	0,00	0,00	0,00	0,00	0,00	12610,83	11700,41

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
249,936	0,00	0,00	0,00	0,00	0,00	0,00	13564,38	12503,90
250,428	0,00	0,00	0,00	0,00	0,00	0,00	14474,78	13264,26
250,920	0,00	0,00	0,00	0,00	0,00	0,00	15342,06	13981,49
251,412	0,00	0,00	0,00	0,00	0,00	0,00	16166,19	14655,57
251,904	0,00	0,00	0,00	0,00	0,00	0,00	16947,19	15286,53
252,396	0,00	0,00	0,00	0,00	0,00	0,00	17685,06	15874,34
252,888	0,00	0,00	0,00	0,00	0,00	0,00	18379,79	16419,03
253,380	0,00	0,00	0,00	0,00	0,00	0,00	19031,39	16920,57
253,872	0,00	0,00	0,00	0,00	0,00	0,00	19639,85	17378,98
254,364	0,00	0,00	0,00	0,00	0,00	0,00	20205,17	17794,26
254,856	0,00	0,00	0,00	0,00	0,00	0,00	20727,36	18166,40
255,348	0,00	0,00	0,00	0,00	0,00	0,00	21206,41	18495,40
255,840	0,00	0,00	0,00	0,00	0,00	0,00	21642,33	18781,27
256,332	0,00	0,00	0,00	0,00	0,00	0,00	22035,11	19024,00
256,824	0,00	0,00	0,00	0,00	0,00	0,00	22384,76	19223,60
257,316	0,00	0,00	0,00	0,00	0,00	0,00	22691,27	19380,07
257,808	0,00	0,00	0,00	0,00	0,00	0,00	22954,65	19493,39
258,300	0,00	0,00	0,00	0,00	0,00	0,00	23174,89	19563,58
258,797	0,00	0,00	0,00	0,00	0,00	0,00	23353,56	19590,69
259,294	0,00	0,00	0,00	0,00	0,00	0,00	23488,22	19573,79
259,791	0,00	0,00	0,00	0,00	0,00	0,00	23578,88	19512,88
260,288	0,00	0,00	0,00	0,00	0,00	0,00	23625,52	19407,96
260,785	0,00	0,00	0,00	0,00	0,00	0,00	23628,15	19259,02
261,282	0,00	0,00	0,00	0,00	0,00	0,00	23586,76	19066,07
261,779	0,00	0,00	0,00	0,00	0,00	0,00	23501,37	18829,12
262,276	0,00	0,00	0,00	0,00	0,00	0,00	23371,96	18548,15
262,773	0,00	0,00	0,00	0,00	0,00	0,00	23198,55	18223,17
263,270	0,00	0,00	0,00	0,00	0,00	0,00	22981,12	17854,17
263,767	0,00	0,00	0,00	0,00	0,00	0,00	22719,68	17441,17
264,264	0,00	0,00	0,00	0,00	0,00	0,00	22414,23	16984,16
264,761	0,00	0,00	0,00	0,00	0,00	0,00	22064,77	16483,13
265,258	0,00	0,00	0,00	0,00	0,00	0,00	21671,30	15938,09
265,755	0,00	0,00	0,00	0,00	0,00	0,00	21233,82	15349,05
266,252	0,00	0,00	0,00	0,00	0,00	0,00	20752,32	14715,99
266,748	0,00	0,00	0,00	0,00	0,00	0,00	20226,81	14038,92
267,245	0,00	0,00	0,00	0,00	0,00	0,00	19657,30	13317,83

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
267,742	0,00	0,00	0,00	0,00	0,00	0,00	19043,77	12552,74
268,239	0,00	0,00	0,00	0,00	0,00	0,00	18386,23	11743,64
268,736	0,00	0,00	0,00	0,00	0,00	0,00	17684,68	10890,52
269,233	0,00	0,00	0,00	0,00	0,00	0,00	16939,12	9993,39
269,730	0,00	0,00	0,00	0,00	0,00	0,00	16149,54	9052,25
270,227	0,00	0,00	0,00	0,00	0,00	0,00	15315,96	8067,11
270,724	0,00	0,00	0,00	0,00	0,00	0,00	14438,36	7037,94
271,221	0,00	0,00	0,00	0,00	0,00	0,00	13516,75	5964,77
271,718	0,00	0,00	0,00	0,00	0,00	0,00	12551,13	4847,59
272,215	0,00	0,00	0,00	0,00	0,00	0,00	11541,50	3686,39
272,712	0,00	0,00	0,00	0,00	0,00	0,00	10487,86	2481,19
273,209	0,00	0,00	0,00	0,00	0,00	0,00	9390,21	1231,97
273,706	0,00	0,00	0,00	0,00	0,00	0,00	8248,55	-61,26
274,203	0,00	0,00	0,00	0,00	0,00	0,00	7062,87	-1398,50
274,700	0,00	0,00	0,00	0,00	0,00	0,00	5833,18	-2779,75
275,110	0,00	0,00	0,00	0,00	0,00	0,00	4784,94	-3953,04
275,520	0,00	0,00	0,00	0,00	0,00	0,00	3702,99	-5160,02
275,930	0,00	0,00	0,00	0,00	0,00	0,00	2583,60	-6404,46
276,340	0,00	0,00	0,00	0,00	0,00	0,00	1423,02	-7690,08
276,750	0,00	0,00	0,00	0,00	0,00	0,00	217,50	-9020,63
277,160	0,00	0,00	0,00	0,00	0,00	0,00	-1036,69	-10399,86
277,570	0,00	0,00	0,00	0,00	0,00	0,00	-2343,30	-11831,52
277,980	0,00	0,00	0,00	0,00	0,00	0,00	-3706,09	-13319,34
278,390	0,00	0,00	0,00	0,00	0,00	0,00	-5128,78	-14867,08
278,800	0,00	0,00	0,00	0,00	0,00	0,00	-6615,13	-16478,47
279,210	0,00	0,00	0,00	0,00	0,00	0,00	-5861,87	-14917,19
279,620	0,00	0,00	0,00	0,00	0,00	0,00	-5172,27	-13419,57
280,030	0,00	0,00	0,00	0,00	0,00	0,00	-4542,59	-11981,86
280,440	0,00	0,00	0,00	0,00	0,00	0,00	-3969,07	-10600,32
280,850	0,00	0,00	0,00	0,00	0,00	0,00	-3447,97	-9271,20
281,260	0,00	0,00	0,00	0,00	0,00	0,00	-2975,55	-7990,76
281,670	0,00	0,00	0,00	0,00	0,00	0,00	-2548,06	-6755,26
282,080	0,00	0,00	0,00	0,00	0,00	0,00	-2161,76	-5560,94
282,490	0,00	0,00	0,00	0,00	0,00	0,00	-1812,91	-4404,07
282,900	0,00	0,00	0,00	0,00	0,00	0,00	-1497,76	-3280,89
283,356	0,00	0,00	0,00	0,00	0,00	0,00	-1183,41	-2068,75
283,811	0,00	0,00	0,00	0,00	0,00	0,00	-906,05	-893,58

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
284,267	0,00	0,00	0,00	0,00	0,00	0,00	-665,67	244,60
284,722	0,00	0,00	0,00	0,00	0,00	0,00	-462,27	1345,80
285,178	0,00	0,00	0,00	0,00	0,00	0,00	-295,85	2410,02
285,633	0,00	0,00	0,00	0,00	0,00	0,00	-166,42	3437,25
286,089	0,00	0,00	0,00	0,00	0,00	0,00	-73,96	4427,51
286,544	0,00	0,00	0,00	0,00	0,00	0,00	-18,49	5380,78
287,000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	6297,07
287,492	0,00	0,00	0,00	0,00	0,00	0,00	0,00	7245,13
287,984	0,00	0,00	0,00	0,00	0,00	0,00	0,00	8150,05
288,476	0,00	0,00	0,00	0,00	0,00	0,00	0,00	9011,84
288,968	0,00	0,00	0,00	0,00	0,00	0,00	0,00	9830,49
289,460	0,00	0,00	0,00	0,00	0,00	0,00	0,00	10606,00
289,952	0,00	0,00	0,00	0,00	0,00	0,00	0,00	11338,38
290,444	0,00	0,00	0,00	0,00	0,00	0,00	0,00	12027,63
290,936	0,00	0,00	0,00	0,00	0,00	0,00	0,00	12673,74
291,428	0,00	0,00	0,00	0,00	0,00	0,00	0,00	13276,71
291,920	0,00	0,00	0,00	0,00	0,00	0,00	0,00	13836,55
292,412	0,00	0,00	0,00	0,00	0,00	0,00	0,00	14353,25
292,904	0,00	0,00	0,00	0,00	0,00	0,00	0,00	14826,82
293,396	0,00	0,00	0,00	0,00	0,00	0,00	0,00	15257,25
293,888	0,00	0,00	0,00	0,00	0,00	0,00	0,00	15644,55
294,380	0,00	0,00	0,00	0,00	0,00	0,00	0,00	15988,71
294,872	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16289,73
295,364	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16547,62
295,856	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16762,38
296,348	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16934,00
296,840	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17062,48
297,332	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17147,83
297,824	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17190,04
298,316	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17189,12
298,808	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17145,06
299,300	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17057,86
299,782	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16930,51
300,265	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16761,69
300,747	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16551,41
301,229	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16299,67
301,712	0,00	0,00	0,00	0,00	0,00	0,00	0,00	16006,47

x [m]	$M_{PP,1}$ [kN.m]	$M_{PP,2}$ [kN.m]	$M_{PP,3}$ [kN.m]	$M_{PP,4}$ [kN.m]	$M_{PP,5}$ [kN.m]	$M_{PP,6}$ [kN.m]	$M_{PP,7}$ [kN.m]	$M_{PP,8}$ [kN.m]
302,194	0,00	0,00	0,00	0,00	0,00	0,00	0,00	15671,80
302,676	0,00	0,00	0,00	0,00	0,00	0,00	0,00	15295,68
303,159	0,00	0,00	0,00	0,00	0,00	0,00	0,00	14878,10
303,641	0,00	0,00	0,00	0,00	0,00	0,00	0,00	14419,06
304,124	0,00	0,00	0,00	0,00	0,00	0,00	0,00	13918,56
304,606	0,00	0,00	0,00	0,00	0,00	0,00	0,00	13376,59
305,088	0,00	0,00	0,00	0,00	0,00	0,00	0,00	12793,17
305,571	0,00	0,00	0,00	0,00	0,00	0,00	0,00	12168,28
306,053	0,00	0,00	0,00	0,00	0,00	0,00	0,00	11501,94
306,535	0,00	0,00	0,00	0,00	0,00	0,00	0,00	10794,13
307,018	0,00	0,00	0,00	0,00	0,00	0,00	0,00	10044,87
307,500	0,00	0,00	0,00	0,00	0,00	0,00	0,00	9254,14
307,910	0,00	0,00	0,00	0,00	0,00	0,00	0,00	8548,57
308,320	0,00	0,00	0,00	0,00	0,00	0,00	0,00	7807,88
308,730	0,00	0,00	0,00	0,00	0,00	0,00	0,00	7026,94
309,140	0,00	0,00	0,00	0,00	0,00	0,00	0,00	6200,57
309,550	0,00	0,00	0,00	0,00	0,00	0,00	0,00	5323,64
309,960	0,00	0,00	0,00	0,00	0,00	0,00	0,00	4390,98
310,370	0,00	0,00	0,00	0,00	0,00	0,00	0,00	3397,44
310,780	0,00	0,00	0,00	0,00	0,00	0,00	0,00	2337,86
311,190	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1207,10
311,600	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

D.1.2 Devido ao Pré-esforço

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
0,000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0,410	-2119,45	-1943,79	-1990,95	-1978,32	-1981,70	-1980,80	-1981,04	-1980,99
0,820	-4179,45	-3827,08	-3921,69	-3896,35	-3903,13	-3901,32	-3901,80	-3901,70
1,230	-6179,36	-5649,23	-5791,56	-5753,45	-5763,65	-5760,92	-5761,65	-5761,49
1,640	-8118,53	-7409,60	-7599,93	-7548,96	-7562,61	-7558,96	-7559,94	-7559,72
2,050	-9996,32	-9107,55	-9346,17	-9282,27	-9299,37	-9294,79	-9296,02	-9295,75
2,460	-11812,09	-10742,43	-11029,61	-10952,71	-10973,30	-10967,79	-10969,26	-10968,94
2,870	-13565,21	-12313,61	-12649,64	-12559,66	-12583,75	-12577,30	-12579,02	-12578,65
3,280	-15255,02	-13820,44	-14205,60	-14102,46	-14130,07	-14122,68	-14124,66	-14124,23

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
3,690	-16880,89	-15262,29	-15696,85	-15580,48	-15611,64	-15603,30	-15605,53	-15605,04
4,100	-18442,18	-16638,50	-17122,76	-16993,08	-17027,80	-17018,50	-17020,99	-17020,45
4,582	-20185,14	-18163,43	-18706,22	-18560,87	-18599,79	-18589,37	-18592,16	-18591,55
5,065	-21835,17	-19594,19	-20195,85	-20034,73	-20077,87	-20066,32	-20069,41	-20068,74
5,547	-23391,37	-20929,90	-21590,76	-21413,79	-21461,17	-21448,48	-21451,88	-21451,14
6,029	-24852,86	-22169,66	-22890,05	-22697,14	-22748,79	-22734,96	-22738,66	-22737,85
6,512	-26218,75	-23312,59	-24092,84	-23883,90	-23939,84	-23924,86	-23928,87	-23928,00
6,994	-27488,15	-24357,80	-25198,24	-24973,18	-25033,44	-25017,31	-25021,63	-25020,69
7,476	-28660,17	-25304,41	-26205,37	-25964,11	-26028,70	-26011,41	-26016,04	-26015,03
7,959	-29733,93	-26151,53	-27113,34	-26855,78	-26924,74	-26906,27	-26911,22	-26910,14
8,441	-30708,54	-26898,26	-27921,25	-27647,31	-27720,65	-27701,02	-27706,27	-27705,13
8,924	-31583,11	-27543,73	-28628,23	-28337,82	-28415,57	-28394,75	-28400,33	-28399,11
9,406	-32356,75	-28087,04	-29233,38	-28926,41	-29008,59	-28986,59	-28992,48	-28991,20
9,888	-33028,59	-28527,31	-29735,82	-29412,20	-29498,84	-29475,64	-29481,85	-29480,50
10,371	-33597,72	-28863,65	-30134,66	-29794,30	-29885,43	-29861,03	-29867,56	-29866,14
10,853	-34063,26	-29095,17	-30429,01	-30071,83	-30167,46	-30141,85	-30148,71	-30147,22
11,335	-34424,33	-29220,99	-30617,99	-30243,89	-30344,05	-30317,23	-30324,41	-30322,85
11,818	-34680,03	-29240,21	-30700,70	-30309,60	-30414,31	-30386,28	-30393,78	-30392,15
12,300	-34829,49	-29151,96	-30676,27	-30268,08	-30377,36	-30348,10	-30355,94	-30354,23
12,797	-34859,27	-28941,61	-30530,39	-30104,93	-30218,84	-30188,35	-30196,51	-30194,73
13,294	-34821,98	-28663,34	-30316,82	-29874,04	-29992,59	-29960,85	-29969,35	-29967,50
13,791	-34717,25	-28316,81	-30035,20	-29575,04	-29698,24	-29665,26	-29674,09	-29672,16
14,288	-34544,72	-27901,63	-29685,17	-29207,56	-29335,44	-29301,20	-29310,37	-29308,37
14,785	-34304,02	-27417,45	-29266,36	-28771,25	-28903,81	-28868,32	-28877,83	-28875,76
15,282	-33994,78	-26863,91	-28778,41	-28265,73	-28403,00	-28366,25	-28376,08	-28373,94
15,779	-33616,65	-26240,63	-28220,95	-27690,65	-27832,63	-27794,62	-27804,80	-27802,58
16,276	-33169,26	-25547,27	-27593,63	-27045,64	-27192,36	-27153,08	-27163,59	-27161,30
16,773	-32652,25	-24783,44	-26896,07	-26330,34	-26481,80	-26441,25	-26452,11	-26449,74
17,270	-32065,25	-23948,79	-26127,91	-25544,37	-25700,61	-25658,78	-25669,98	-25667,54
17,767	-31407,90	-23042,96	-25288,79	-24687,39	-24848,40	-24805,29	-24816,83	-24814,32
18,264	-30679,83	-22065,58	-24378,34	-23759,02	-23924,83	-23880,44	-23892,32	-23889,73
18,761	-29880,68	-21016,28	-23396,20	-22758,89	-22929,52	-22883,84	-22896,07	-22893,41
19,258	-29010,09	-19894,70	-22342,01	-21686,66	-21862,12	-21815,14	-21827,72	-21824,98
19,755	-28067,70	-18700,48	-21215,40	-20541,94	-20722,25	-20673,98	-20686,90	-20684,09
20,252	-27053,13	-17433,26	-20016,01	-19324,39	-19509,56	-19459,98	-19473,25	-19470,37
20,748	-25966,02	-16092,67	-18743,47	-18033,63	-18223,68	-18172,79	-18186,42	-18183,45

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
21,245	-24806,02	-14678,34	-17397,43	-16669,29	-16864,24	-16812,05	-16826,02	-16822,98
21,742	-23572,75	-13189,91	-15977,51	-15231,03	-15430,89	-15377,38	-15391,70	-15388,59
22,239	-22265,85	-11627,03	-14483,35	-13718,47	-13923,25	-13868,42	-13883,10	-13879,91
22,736	-20884,97	-9989,31	-12914,59	-12131,24	-12340,97	-12284,82	-12299,85	-12296,58
23,233	-19429,72	-8276,41	-11270,86	-10468,99	-10683,68	-10626,20	-10641,59	-10638,24
23,730	-17899,76	-6487,95	-9551,81	-8731,35	-8951,02	-8892,21	-8907,95	-8904,52
24,227	-16294,72	-4623,58	-7757,05	-6917,95	-7142,61	-7082,46	-7098,56	-7095,06
24,724	-14614,22	-2682,92	-5886,25	-5028,44	-5258,11	-5196,62	-5213,08	-5209,50
25,221	-12857,92	-665,62	-3939,02	-3062,45	-3297,14	-3234,30	-3251,13	-3247,46
25,718	-11025,44	1428,69	-1915,00	-1019,61	-1259,34	-1195,15	-1212,34	-1208,60
26,215	-9116,42	3600,38	186,16	1100,44	855,66	921,19	903,65	907,47
26,712	-7130,50	5849,80	2364,84	3298,06	3048,21	3115,10	3097,19	3101,09
27,209	-5067,31	8177,33	4621,40	5573,63	5318,68	5386,94	5368,66	5372,64
27,706	-2926,49	10583,32	6956,19	7927,49	7667,44	7737,06	7718,42	7722,48
28,203	-707,67	13068,14	9369,60	10360,02	10094,85	10165,84	10146,84	10150,97
28,700	1589,50	15632,16	11861,97	12871,57	12601,27	12673,64	12654,26	12658,48
29,110	3402,46	17578,50	13772,51	14791,70	14518,83	14591,88	14572,32	14576,58
29,520	5007,44	19314,99	15473,69	16502,33	16226,93	16300,66	16280,92	16285,22
29,930	6407,18	20844,34	16968,24	18006,21	17728,30	17802,71	17782,79	17787,12
30,340	7604,40	22169,28	18258,89	19306,04	19025,68	19100,74	19080,64	19085,02
30,750	8601,83	23292,54	19348,36	20404,56	20121,78	20197,49	20177,22	20181,63
31,160	9402,20	24216,84	20239,39	21304,49	21019,33	21095,67	21075,23	21079,68
31,570	10008,22	24944,90	20934,69	22008,56	21721,05	21798,02	21777,41	21781,90
31,980	10422,63	25479,45	21436,99	22519,50	22229,67	22307,27	22286,50	22291,02
32,390	10648,15	25823,22	21749,01	22840,03	22547,92	22626,13	22605,19	22609,75
32,800	10687,51	25978,94	21873,48	22972,86	22678,52	22757,33	22736,23	22740,82
33,210	10543,24	25606,86	21709,46	22753,13	22473,70	22548,51	22528,48	22532,84
33,620	10218,27	25055,59	21364,37	22352,82	22088,18	22159,03	22140,06	22144,19
34,030	9715,31	24327,84	20840,93	21774,68	21524,68	21591,61	21573,69	21577,59
34,440	9037,09	23426,35	20141,89	21021,42	20785,94	20848,99	20832,11	20835,78
34,850	8186,33	22353,83	19269,95	20095,77	19874,67	19933,86	19918,01	19921,46
35,260	7165,76	21113,02	18227,85	19000,46	18793,61	18848,99	18834,16	18837,39
35,670	5978,11	19706,64	17018,31	17738,21	17545,46	17597,07	17583,25	17586,26
36,080	4626,10	18137,42	15644,06	16311,74	16132,98	16180,84	16168,03	16170,82
36,490	3112,46	16408,07	14107,81	14723,79	14558,87	14603,03	14591,20	14593,78
36,900	1439,91	14521,33	12412,31	12977,08	12825,87	12866,35	12855,51	12857,87

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
37,356	-469,56	12424,09	10518,20	11028,57	10891,92	10928,51	10918,71	10920,84
37,811	-2317,62	10388,90	8685,33	9141,52	9019,38	9052,08	9043,32	9045,23
38,267	-4104,63	8415,43	6913,36	7315,59	7207,90	7236,73	7229,01	7230,69
38,722	-5830,91	6503,34	5201,97	5550,46	5457,16	5482,14	5475,45	5476,91
39,178	-7496,78	4652,33	3550,83	3845,80	3766,83	3787,97	3782,31	3783,54
39,633	-9102,58	2862,04	1959,62	2201,27	2136,57	2153,90	2149,26	2150,27
40,089	-10648,63	1132,16	427,99	616,56	566,07	579,59	575,97	576,75
40,544	-12135,27	-537,65	-1044,38	-908,69	-945,02	-935,29	-937,90	-937,33
41,000	-13562,82	-2147,71	-2457,82	-2374,78	-2397,01	-2391,06	-2392,65	-2392,31
41,492	0,00	-3837,82	-3936,95	-3910,41	-3917,51	-3915,61	-3916,12	-3916,01
41,984	0,00	-5474,25	-5361,36	-5391,59	-5383,50	-5385,66	-5385,08	-5385,21
42,476	0,00	-7056,53	-6730,60	-6817,88	-6794,51	-6800,77	-6799,09	-6799,46
42,968	0,00	-8584,22	-8044,21	-8188,82	-8150,10	-8160,47	-8157,69	-8158,30
43,460	0,00	-10056,87	-9301,74	-9503,95	-9449,82	-9464,31	-9460,43	-9461,27
43,952	0,00	-11474,01	-10502,74	-10762,84	-10693,20	-10711,85	-10706,85	-10707,94
44,444	0,00	-12835,21	-11646,76	-11965,01	-11879,80	-11902,61	-11896,51	-11897,84
44,936	0,00	-14140,00	-12733,34	-13110,02	-13009,17	-13036,17	-13028,94	-13030,52
45,428	0,00	-15387,94	-13762,03	-14197,43	-14080,85	-14112,06	-14103,71	-14105,53
45,920	0,00	-16578,58	-14732,38	-15226,76	-15094,40	-15129,84	-15120,35	-15122,41
46,412	0,00	-17711,45	-15643,93	-16197,58	-16049,35	-16089,04	-16078,41	-16080,72
46,904	0,00	-18786,11	-16496,24	-17109,43	-16945,26	-16989,21	-16977,45	-16980,01
47,396	0,00	-19802,11	-17288,85	-17961,87	-17781,68	-17829,92	-17817,00	-17819,81
47,888	0,00	-20758,98	-18021,31	-18754,42	-18558,14	-18610,69	-18596,62	-18599,69
48,380	0,00	-21656,29	-18693,17	-19486,65	-19274,21	-19331,09	-19315,86	-19319,17
48,872	0,00	-22493,58	-19303,97	-20158,10	-19929,42	-19990,64	-19974,25	-19977,82
49,364	0,00	-23270,40	-19853,26	-20768,32	-20523,33	-20588,92	-20571,36	-20575,18
49,856	0,00	-23986,28	-20340,59	-21316,86	-21055,48	-21125,46	-21106,72	-21110,80
50,348	0,00	-24640,79	-20765,51	-21803,26	-21525,42	-21599,80	-21579,89	-21584,22
50,840	0,00	-25233,47	-21127,57	-22227,07	-21932,69	-22011,51	-21990,41	-21995,00
51,332	0,00	-25763,86	-21426,30	-22587,84	-22276,86	-22360,12	-22337,83	-22342,68
51,824	0,00	-26231,52	-21661,27	-22885,12	-22557,45	-22645,18	-22621,69	-22626,80
52,316	0,00	-26635,99	-21832,01	-23118,45	-22774,02	-22866,24	-22841,55	-22846,92
52,808	0,00	-26976,82	-21938,09	-23287,39	-22926,13	-23022,85	-22996,95	-23002,59
53,300	0,00	-27253,55	-21979,03	-23391,47	-23013,31	-23114,55	-23087,45	-23093,35
53,797	0,00	-27453,55	-21942,62	-23418,37	-23023,26	-23129,04	-23100,72	-23106,88
54,294	0,00	-27587,14	-21838,97	-23378,25	-22966,13	-23076,47	-23046,93	-23053,36

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
54,791	0,00	-27653,96	-21667,73	-23270,76	-22841,57	-22956,48	-22925,71	-22932,41
55,288	0,00	-27653,65	-21428,53	-23095,53	-22649,21	-22768,71	-22736,71	-22743,68
55,785	0,00	-27585,83	-21121,01	-22852,20	-22388,70	-22512,79	-22479,56	-22486,80
56,282	0,00	-27450,15	-20744,80	-22540,40	-22059,65	-22188,36	-22153,90	-22161,41
56,779	0,00	-27246,25	-20299,54	-22159,77	-21661,72	-21795,06	-21759,36	-21767,13
57,276	0,00	-26973,75	-19784,86	-21709,94	-21194,53	-21332,52	-21295,58	-21303,62
57,773	0,00	-26632,30	-19200,41	-21190,57	-20657,73	-20800,39	-20762,19	-20770,51
58,270	0,00	-26221,52	-18545,81	-20601,26	-20050,94	-20198,28	-20158,83	-20167,42
58,767	0,00	-25741,07	-17820,71	-19941,67	-19373,81	-19525,84	-19485,14	-19494,00
59,264	0,00	-25190,56	-17024,73	-19211,42	-18625,97	-18782,71	-18740,75	-18749,88
59,761	0,00	-24569,65	-16157,52	-18410,17	-17807,05	-17968,53	-17925,29	-17934,70
60,258	0,00	-23877,95	-15218,71	-17537,53	-16916,70	-17082,91	-17038,41	-17048,10
60,755	0,00	-23115,13	-14207,94	-16593,16	-15954,55	-16125,52	-16079,75	-16089,71
61,252	0,00	-22280,79	-13124,84	-15576,67	-14920,23	-15095,98	-15048,92	-15059,16
61,748	0,00	-21374,59	-11969,04	-14487,72	-13813,38	-13993,92	-13945,58	-13956,10
62,245	0,00	-20396,15	-10740,20	-13325,93	-12633,63	-12818,98	-12769,36	-12780,16
62,742	0,00	-19345,13	-9437,93	-12090,94	-11380,63	-11570,81	-11519,89	-11530,97
63,239	0,00	-18221,14	-8061,88	-10782,39	-10054,01	-10249,02	-10196,81	-10208,17
63,736	0,00	-17023,83	-6611,69	-9399,91	-8653,40	-8853,27	-8799,76	-8811,40
64,233	0,00	-15752,83	-5086,98	-7943,15	-7178,45	-7383,18	-7328,37	-7340,30
64,730	0,00	-14407,78	-3487,40	-6411,72	-5628,78	-5838,40	-5782,28	-5794,49
65,227	0,00	-12988,31	-1812,58	-4805,28	-4004,03	-4218,55	-4161,12	-4173,62
65,724	0,00	-11494,07	-62,16	-3123,46	-2303,84	-2523,28	-2464,53	-2477,32
66,221	0,00	-9924,68	1764,23	-1365,89	-527,85	-752,22	-692,15	-705,22
66,718	0,00	-8279,78	3666,95	467,79	1324,32	1095,00	1156,39	1143,03
67,215	0,00	-6559,02	5646,37	2377,94	3253,01	3018,73	3081,45	3067,80
67,712	0,00	-4762,01	7702,84	4364,93	5258,61	5019,34	5083,41	5069,46
68,209	0,00	-2888,41	9836,74	6429,13	7341,47	7097,20	7162,60	7148,37
68,706	0,00	-937,85	12048,42	8570,89	9501,95	9252,67	9319,41	9304,88
69,203	0,00	1090,05	14338,26	10790,58	11740,42	11486,12	11554,20	11539,38
69,700	0,00	3195,63	16706,61	13088,56	14057,24	13797,90	13867,33	13852,22
70,110	0,00	4841,15	18485,43	14831,69	15809,93	15548,02	15618,14	15602,88
70,520	0,00	6280,21	20055,94	16366,99	17354,66	17090,23	17161,02	17145,61
70,930	0,00	7515,55	21420,84	17697,20	18694,16	18427,24	18498,70	18483,15
71,340	0,00	8549,89	22582,88	18825,04	19831,15	19561,79	19633,90	19618,20
71,750	0,00	9385,95	23544,78	19753,24	20768,37	20496,59	20569,35	20553,52

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
72,160	0,00	10026,46	24309,25	20484,52	21508,54	21234,38	21307,78	21291,80
72,570	0,00	10474,14	24879,03	21021,61	22054,38	21777,87	21851,90	21835,79
72,980	0,00	10731,73	25256,84	21367,22	22408,62	22129,80	22204,45	22188,20
73,390	0,00	10801,94	25445,41	21524,10	22573,98	22292,89	22368,15	22351,77
73,800	0,00	10687,51	25447,47	21494,96	22553,19	22269,87	22345,72	22329,21
74,210	0,00	10543,24	25083,31	21336,20	22339,43	22070,83	22142,75	22127,10
74,620	0,00	10218,27	24539,91	20996,33	21945,07	21691,06	21759,07	21744,27
75,030	0,00	9715,31	23819,98	20478,10	21372,84	21133,29	21197,42	21183,46
75,440	0,00	9037,09	22926,24	19784,21	20625,44	20400,22	20460,52	20447,39
75,850	0,00	8186,33	21861,44	18917,40	19705,62	19494,59	19551,09	19538,79
76,260	0,00	7165,76	20628,29	17880,39	18616,10	18419,13	18471,86	18460,39
76,670	0,00	5978,11	19229,51	16675,91	17359,60	17176,55	17225,56	17214,89
77,080	0,00	4626,10	17667,84	15306,68	15938,85	15769,59	15814,91	15805,04
77,490	0,00	3112,46	15945,99	13775,43	14356,57	14200,98	14242,63	14233,57
77,900	0,00	1439,91	14066,70	12084,88	12615,48	12473,42	12511,46	12503,18
78,356	0,00	-469,56	11975,98	10195,03	10671,85	10544,19	10578,37	10570,93
78,811	0,00	-2317,62	9947,30	8366,39	8789,66	8676,34	8706,68	8700,07
79,267	0,00	-4104,63	7980,31	6598,65	6968,57	6869,53	6896,05	6890,28
79,722	0,00	-5830,91	6074,69	4891,47	5208,26	5123,45	5146,16	5141,21
80,178	0,00	-7496,78	4230,11	3244,53	3508,41	3437,76	3456,68	3452,56
80,633	0,00	-9102,58	2446,24	1657,50	1868,67	1812,13	1827,27	1823,98
81,089	0,00	-10648,63	722,75	130,04	288,73	246,24	257,62	255,14
81,544	0,00	-12135,27	-940,69	-1338,18	-1231,76	-1260,25	-1252,62	-1254,28
82,000	0,00	-13562,82	-2544,41	-2747,48	-2693,11	-2707,67	-2703,77	-2704,62
82,492	0,00	0,00	-4229,52	-4223,50	-4225,12	-4224,68	-4224,80	-4224,78
82,984	0,00	0,00	-5860,92	-5644,79	-5702,66	-5687,16	-5691,31	-5690,41
83,476	0,00	0,00	-7438,16	-7010,88	-7125,27	-7094,65	-7102,85	-7101,06
83,968	0,00	0,00	-8960,76	-8321,32	-8492,52	-8446,69	-8458,96	-8456,29
84,460	0,00	0,00	-10428,30	-9575,67	-9803,95	-9742,83	-9759,20	-9755,63
84,952	0,00	0,00	-11840,31	-10773,46	-11059,10	-10982,62	-11003,10	-10998,64
85,444	0,00	0,00	-13196,34	-11914,26	-12257,51	-12165,61	-12190,22	-12184,86
85,936	0,00	0,00	-14495,93	-12997,60	-13398,75	-13291,35	-13320,11	-13313,85
86,428	0,00	0,00	-15738,64	-14023,02	-14482,36	-14359,38	-14392,30	-14385,14
86,920	0,00	0,00	-16924,02	-14990,09	-15507,88	-15369,25	-15406,36	-15398,29
87,412	0,00	0,00	-18051,61	-15898,35	-16474,86	-16320,51	-16361,83	-16352,83
87,904	0,00	0,00	-19120,95	-16747,35	-17382,85	-17212,70	-17258,26	-17248,34

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
88,396	0,00	0,00	-20131,61	-17536,62	-18231,39	-18045,38	-18095,18	-18084,34
88,888	0,00	0,00	-21083,11	-18265,73	-19020,04	-18818,09	-18872,16	-18860,39
89,380	0,00	0,00	-21975,02	-18934,21	-19748,35	-19530,38	-19588,73	-19576,03
89,872	0,00	0,00	-22806,88	-19541,63	-20415,85	-20181,79	-20244,46	-20230,82
90,364	0,00	0,00	-23578,23	-20087,51	-21022,10	-20771,88	-20838,87	-20824,29
90,856	0,00	0,00	-24288,63	-20571,41	-21566,64	-21300,19	-21371,53	-21356,00
91,348	0,00	0,00	-24937,62	-20992,88	-22049,03	-21766,27	-21841,97	-21825,50
91,840	0,00	0,00	-25524,75	-21351,48	-22468,81	-22169,66	-22249,76	-22232,32
92,332	0,00	0,00	-26049,57	-21646,73	-22825,53	-22509,93	-22594,42	-22576,03
92,824	0,00	0,00	-26511,61	-21878,19	-23118,73	-22786,59	-22875,52	-22856,16
93,316	0,00	0,00	-26910,45	-22045,42	-23347,96	-22999,23	-23092,60	-23072,27
93,808	0,00	0,00	-27245,61	-22147,95	-23512,78	-23147,37	-23245,20	-23223,91
94,300	0,00	0,00	-27516,66	-22185,33	-23612,72	-23230,56	-23332,88	-23310,61
94,797	0,00	0,00	-27710,74	-22145,20	-23635,29	-23236,35	-23343,16	-23319,91
95,294	0,00	0,00	-27838,40	-22037,83	-23590,85	-23175,06	-23286,38	-23262,15
95,791	0,00	0,00	-27899,26	-21862,84	-23479,01	-23046,31	-23162,16	-23136,94
96,288	0,00	0,00	-27892,97	-21619,88	-23299,41	-22849,75	-22970,14	-22943,93
96,785	0,00	0,00	-27819,15	-21308,58	-23051,70	-22585,01	-22709,96	-22682,76
97,282	0,00	0,00	-27677,44	-20928,58	-22735,49	-22251,73	-22381,25	-22353,05
97,779	0,00	0,00	-27467,48	-20479,52	-22350,45	-21849,54	-21983,65	-21954,46
98,276	0,00	0,00	-27188,91	-19961,02	-21896,19	-21378,08	-21516,80	-21486,60
98,773	0,00	0,00	-26841,36	-19372,73	-21372,35	-20836,99	-20980,32	-20949,12
99,270	0,00	0,00	-26424,47	-18714,28	-20778,58	-20225,90	-20373,87	-20341,66
99,767	0,00	0,00	-25937,87	-17985,31	-20114,50	-19544,45	-19697,07	-19663,85
100,264	0,00	0,00	-25381,20	-17185,46	-19379,75	-18792,27	-18949,56	-18915,32
100,761	0,00	0,00	-24754,09	-16314,35	-18573,97	-17969,00	-18130,97	-18095,71
101,258	0,00	0,00	-24056,19	-15371,63	-17696,80	-17074,28	-17240,95	-17204,67
101,755	0,00	0,00	-23287,12	-14356,93	-16747,87	-16107,74	-16279,12	-16241,82
102,252	0,00	0,00	-22446,53	-13269,90	-15726,81	-15069,01	-15245,13	-15206,79
102,748	0,00	0,00	-21534,04	-12110,15	-14633,26	-13957,74	-14138,60	-14099,24
103,245	0,00	0,00	-20549,30	-10877,33	-13466,87	-12773,57	-12959,19	-12918,78
103,742	0,00	0,00	-19491,95	-9571,08	-12227,25	-11516,11	-11706,51	-11665,07
104,239	0,00	0,00	-18361,61	-8191,04	-10914,07	-10185,02	-10380,21	-10337,73
104,736	0,00	0,00	-17157,92	-6736,83	-9526,93	-8779,93	-8979,93	-8936,39
105,233	0,00	0,00	-15880,52	-5208,09	-8065,49	-7300,47	-7505,29	-7460,71
105,730	0,00	0,00	-14529,05	-3604,47	-6529,37	-5746,28	-5955,94	-5910,30

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
106,227	0,00	0,00	-13103,14	-1925,59	-4918,22	-4117,00	-4331,52	-4284,82
106,724	0,00	0,00	-11602,43	-171,10	-3231,67	-2412,26	-2631,64	-2583,89
107,221	0,00	0,00	-10026,55	1659,38	-1469,36	-631,70	-855,97	-807,15
107,718	0,00	0,00	-8375,14	3566,21	369,08	1225,05	995,88	1045,77
108,215	0,00	0,00	-6647,83	5549,74	2284,01	3158,35	2924,26	2975,22
108,712	0,00	0,00	-4844,27	7610,34	4275,79	5168,56	4929,54	4981,57
109,209	0,00	0,00	-2964,08	9748,39	6344,80	7256,05	7012,08	7065,19
109,706	0,00	0,00	-1006,91	11964,24	8491,39	9421,19	9172,25	9226,44
110,203	0,00	0,00	1027,61	14258,25	10715,93	11664,33	11410,41	11465,68
110,700	0,00	0,00	3139,85	16630,79	13018,78	13985,83	13726,92	13783,28
111,110	0,00	0,00	4791,18	18413,53	14766,33	15742,81	15481,37	15538,28
111,520	0,00	0,00	6236,01	19987,91	16306,03	17291,79	17027,87	17085,32
111,930	0,00	0,00	7477,06	21356,66	17640,59	18635,51	18369,13	18427,11
112,340	0,00	0,00	8517,05	22522,51	18772,75	19776,68	19507,89	19566,40
112,750	0,00	0,00	9358,72	23488,18	19705,22	20718,04	20446,87	20505,90
113,160	0,00	0,00	10004,78	24256,40	20440,73	21462,31	21188,79	21248,33
113,570	0,00	0,00	10457,96	24829,89	20982,01	22012,21	21736,39	21796,43
113,980	0,00	0,00	10721,00	25211,38	21331,78	22370,48	22092,38	22152,91
114,390	0,00	0,00	10796,60	25403,60	21492,78	22539,83	22259,50	22320,52
114,800	0,00	0,00	10687,51	25409,26	21467,72	22522,99	22240,46	22301,96
115,210	0,00	0,00	10543,24	25045,67	21309,33	22309,67	22041,84	22100,14
115,620	0,00	0,00	10218,27	24502,83	20969,84	21915,74	21662,49	21717,62
116,030	0,00	0,00	9715,31	23783,46	20451,98	21343,93	21105,12	21157,10
116,440	0,00	0,00	9037,09	22890,29	19758,47	20596,96	20372,46	20421,33
116,850	0,00	0,00	8186,33	21826,04	18892,02	19677,56	19467,24	19513,02
117,260	0,00	0,00	7165,76	20593,44	17855,38	18588,45	18392,18	18434,90
117,670	0,00	0,00	5978,11	19195,21	16651,27	17332,36	17150,01	17189,70
118,080	0,00	0,00	4626,10	17634,08	15282,40	15912,02	15743,45	15780,14
118,490	0,00	0,00	3112,46	15912,77	13751,51	14330,15	14175,22	14208,95
118,900	0,00	0,00	1439,91	14034,01	12061,32	12589,47	12448,06	12478,85
119,356	0,00	0,00	-469,56	11943,77	10171,77	10646,19	10519,17	10546,82
119,811	0,00	0,00	-2317,62	9915,55	8343,44	8764,34	8651,65	8676,18
120,267	0,00	0,00	-4104,63	7949,03	6576,00	6943,61	6845,19	6866,61
120,722	0,00	0,00	-5830,91	6043,87	4869,13	5183,65	5099,44	5117,77
121,178	0,00	0,00	-7496,78	4199,76	3222,49	3484,14	3414,08	3429,33
121,633	0,00	0,00	-9102,58	2416,35	1635,75	1844,74	1788,79	1800,97

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
122,089	0,00	0,00	-10648,63	693,32	108,59	265,14	223,23	232,35
122,544	0,00	0,00	-12135,27	-969,66	-1359,33	-1255,00	-1282,93	-1276,85
123,000	0,00	0,00	-13562,82	-2572,93	-2768,33	-2716,01	-2730,02	-2726,97
123,492	0,00	0,00	0,00	-4257,68	-4244,13	-4247,76	-4246,79	-4247,00
123,984	0,00	0,00	0,00	-5888,72	-5665,19	-5725,03	-5709,01	-5712,50
124,476	0,00	0,00	0,00	-7465,59	-7031,05	-7147,39	-7116,24	-7123,02
124,968	0,00	0,00	0,00	-8987,84	-8341,27	-8514,37	-8468,03	-8478,12
125,460	0,00	0,00	0,00	-10455,00	-9595,38	-9825,53	-9763,91	-9777,33
125,952	0,00	0,00	0,00	-11866,64	-10792,94	-11080,41	-11003,44	-11020,20
126,444	0,00	0,00	0,00	-13222,30	-11933,51	-12278,56	-12186,18	-12206,29
126,936	0,00	0,00	0,00	-14521,52	-13016,61	-13419,53	-13311,65	-13335,13
127,428	0,00	0,00	0,00	-15763,86	-14041,81	-14502,86	-14379,42	-14406,29
127,920	0,00	0,00	0,00	-16948,86	-15008,64	-15528,10	-15389,02	-15419,30
128,412	0,00	0,00	0,00	-18076,06	-15916,66	-16494,80	-16340,02	-16373,71
128,904	0,00	0,00	0,00	-19145,03	-16765,41	-17402,51	-17231,94	-17269,07
129,396	0,00	0,00	0,00	-20155,29	-17554,45	-18250,78	-18064,35	-18104,93
129,888	0,00	0,00	0,00	-21106,42	-18283,32	-19039,15	-18836,79	-18880,84
130,380	0,00	0,00	0,00	-21997,94	-18951,56	-19767,17	-19548,80	-19596,34
130,872	0,00	0,00	0,00	-22829,40	-19558,73	-20434,39	-20199,94	-20250,98
131,364	0,00	0,00	0,00	-23600,36	-20104,37	-21040,36	-20789,76	-20844,31
131,856	0,00	0,00	0,00	-24310,37	-20588,02	-21584,61	-21317,79	-21375,87
132,348	0,00	0,00	0,00	-24958,96	-21009,25	-22066,71	-21783,59	-21845,22
132,840	0,00	0,00	0,00	-25545,69	-21367,59	-22486,20	-22186,71	-22251,90
133,332	0,00	0,00	0,00	-26070,10	-21662,59	-22842,62	-22526,69	-22595,46
133,824	0,00	0,00	0,00	-26531,75	-21893,80	-23135,53	-22803,08	-22875,44
134,316	0,00	0,00	0,00	-26930,18	-22060,77	-23364,47	-23015,42	-23091,40
134,808	0,00	0,00	0,00	-27264,94	-22163,05	-23528,99	-23163,28	-23242,88
135,300	0,00	0,00	0,00	-27535,57	-22200,18	-23628,63	-23246,19	-23329,44
135,797	0,00	0,00	0,00	-27729,23	-22159,78	-23650,90	-23251,67	-23338,58
136,294	0,00	0,00	0,00	-27856,47	-22052,13	-23606,14	-23190,08	-23280,65
136,791	0,00	0,00	0,00	-27916,90	-21876,88	-23493,99	-23061,03	-23155,27
137,288	0,00	0,00	0,00	-27910,17	-21633,65	-23314,08	-22864,17	-22962,10
137,785	0,00	0,00	0,00	-27835,92	-21322,08	-23066,04	-22599,12	-22700,76
138,282	0,00	0,00	0,00	-27693,78	-20941,81	-22749,53	-22265,54	-22370,89
138,779	0,00	0,00	0,00	-27483,39	-20492,46	-22364,16	-21863,04	-21972,12
139,276	0,00	0,00	0,00	-27204,38	-19973,69	-21909,58	-21391,28	-21504,10

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
139,773	0,00	0,00	0,00	-26856,39	-19385,13	-21385,43	-20849,87	-20966,45
140,270	0,00	0,00	0,00	-26439,06	-18726,40	-20791,33	-20238,48	-20358,82
140,767	0,00	0,00	0,00	-25952,02	-17997,16	-20126,93	-19556,71	-19680,83
141,264	0,00	0,00	0,00	-25394,91	-17197,02	-19391,86	-18804,22	-18932,14
141,761	0,00	0,00	0,00	-24767,35	-16325,63	-18585,75	-17980,64	-18112,35
142,258	0,00	0,00	0,00	-24069,00	-15382,63	-17708,25	-17085,60	-17221,14
142,755	0,00	0,00	0,00	-23299,49	-14367,65	-16758,99	-16118,74	-16258,11
143,252	0,00	0,00	0,00	-22458,44	-13280,33	-15737,61	-15079,70	-15222,91
143,748	0,00	0,00	0,00	-21545,51	-12120,30	-14643,73	-13968,12	-14115,18
144,245	0,00	0,00	0,00	-20560,32	-10887,20	-13477,00	-12783,62	-12934,55
144,742	0,00	0,00	0,00	-19502,50	-9580,66	-12237,06	-11525,85	-11680,66
145,239	0,00	0,00	0,00	-18371,71	-8200,32	-10923,53	-10194,43	-10353,14
145,736	0,00	0,00	0,00	-17167,56	-6745,83	-9536,06	-8789,02	-8951,63
146,233	0,00	0,00	0,00	-15889,70	-5216,80	-8074,29	-7309,23	-7475,77
146,730	0,00	0,00	0,00	-14537,77	-3612,89	-6537,83	-5754,72	-5925,18
147,227	0,00	0,00	0,00	-13111,40	-1933,72	-4926,34	-4125,11	-4299,52
147,724	0,00	0,00	0,00	-11610,22	-178,93	-3239,45	-2420,04	-2598,41
148,221	0,00	0,00	0,00	-10033,87	1651,85	-1476,80	-639,15	-821,48
148,718	0,00	0,00	0,00	-8381,99	3558,96	361,98	1217,93	1031,61
149,215	0,00	0,00	0,00	-6654,22	5542,79	2277,26	3151,56	2961,25
149,712	0,00	0,00	0,00	-4850,18	7603,70	4269,39	5162,10	4967,78
150,209	0,00	0,00	0,00	-2969,52	9742,04	6338,74	7249,93	7051,59
150,706	0,00	0,00	0,00	-1011,87	11958,19	8485,68	9415,40	9213,02
151,203	0,00	0,00	0,00	1023,12	14252,50	10710,57	11658,87	11452,45
151,700	0,00	0,00	0,00	3135,84	16625,34	13013,77	13980,72	13770,24
152,110	0,00	0,00	0,00	4787,59	18408,36	14761,64	15738,00	15525,47
152,520	0,00	0,00	0,00	6232,83	19983,02	16301,65	17287,29	17072,74
152,930	0,00	0,00	0,00	7474,29	21352,05	17636,52	18631,30	18414,77
153,340	0,00	0,00	0,00	8514,69	22518,18	18768,99	19772,78	19554,28
153,750	0,00	0,00	0,00	9356,76	23484,12	19701,77	20714,44	20494,01
154,160	0,00	0,00	0,00	10003,22	24252,61	20437,58	21459,00	21236,67
154,570	0,00	0,00	0,00	10456,80	24826,37	20979,17	22009,20	21784,99
154,980	0,00	0,00	0,00	10720,22	25208,12	21329,24	22367,75	22141,70
155,390	0,00	0,00	0,00	10796,22	25400,60	21490,53	22537,40	22309,52
155,800	0,00	0,00	0,00	10687,51	25406,52	21465,76	22520,84	22291,18
156,210	0,00	0,00	0,00	10543,24	25042,97	21307,41	22307,55	22089,84

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
156,620	0,00	0,00	0,00	10218,27	24500,17	20967,95	21913,65	21707,79
157,030	0,00	0,00	0,00	9715,31	23780,84	20450,11	21341,87	21147,75
157,440	0,00	0,00	0,00	9037,09	22887,71	19756,62	20594,93	20412,45
157,850	0,00	0,00	0,00	8186,33	21823,50	18890,20	19675,55	19504,60
158,260	0,00	0,00	0,00	7165,76	20590,94	17853,59	18586,48	18426,94
158,670	0,00	0,00	0,00	5978,11	19192,75	16649,50	17330,42	17182,20
159,080	0,00	0,00	0,00	4626,10	17631,66	15280,66	15910,10	15773,09
159,490	0,00	0,00	0,00	3112,46	15910,39	13749,79	14328,26	14202,34
159,900	0,00	0,00	0,00	1439,91	14031,67	12059,63	12587,61	12472,68
160,356	0,00	0,00	0,00	-469,56	11941,46	10170,10	10644,35	10541,12
160,811	0,00	0,00	0,00	-2317,62	9913,27	8341,79	8762,53	8670,95
161,267	0,00	0,00	0,00	-4104,63	7946,78	6574,38	6941,82	6861,84
161,722	0,00	0,00	0,00	-5830,91	6041,66	4867,53	5181,88	5113,46
162,178	0,00	0,00	0,00	-7496,78	4197,58	3220,91	3482,40	3425,48
162,633	0,00	0,00	0,00	-9102,58	2414,20	1634,19	1843,03	1797,57
163,089	0,00	0,00	0,00	-10648,63	691,21	107,05	263,45	229,41
163,544	0,00	0,00	0,00	-12135,27	-971,74	-1360,84	-1256,67	-1279,34
164,000	0,00	0,00	0,00	-13562,82	-2574,97	-2769,82	-2717,66	-2729,01
164,492	0,00	0,00	0,00	0,00	-4259,70	-4245,61	-4249,38	-4248,56
164,984	0,00	0,00	0,00	0,00	-5890,72	-5666,65	-5726,64	-5713,58
165,476	0,00	0,00	0,00	0,00	-7467,56	-7032,49	-7148,98	-7123,62
165,968	0,00	0,00	0,00	0,00	-8989,78	-8342,69	-8515,94	-8478,23
166,460	0,00	0,00	0,00	0,00	-10456,92	-9596,79	-9827,08	-9776,95
166,952	0,00	0,00	0,00	0,00	-11868,53	-10794,34	-11081,94	-11019,34
167,444	0,00	0,00	0,00	0,00	-13224,16	-11934,89	-12280,07	-12204,93
167,936	0,00	0,00	0,00	0,00	-14523,36	-13017,98	-13421,02	-13333,29
168,428	0,00	0,00	0,00	0,00	-15765,67	-14043,15	-14504,33	-14403,95
168,920	0,00	0,00	0,00	0,00	-16950,64	-15009,97	-15529,56	-15416,46
169,412	0,00	0,00	0,00	0,00	-18077,82	-15917,97	-16496,24	-16370,37
169,904	0,00	0,00	0,00	0,00	-19146,75	-16766,71	-17403,93	-17265,23
170,396	0,00	0,00	0,00	0,00	-20156,99	-17555,73	-18252,18	-18100,58
170,888	0,00	0,00	0,00	0,00	-21108,09	-18284,58	-19040,53	-18875,98
171,380	0,00	0,00	0,00	0,00	-21999,58	-18952,80	-19768,53	-19590,97
171,872	0,00	0,00	0,00	0,00	-22831,02	-19559,95	-20435,73	-20245,10
172,364	0,00	0,00	0,00	0,00	-23601,95	-20105,57	-21041,68	-20837,91
172,856	0,00	0,00	0,00	0,00	-24311,92	-20589,21	-21585,92	-21368,96

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
173,348	0,00	0,00	0,00	0,00	-24960,49	-21010,42	-22068,00	-21837,79
173,840	0,00	0,00	0,00	0,00	-25547,19	-21368,74	-22487,46	-22243,95
174,332	0,00	0,00	0,00	0,00	-26071,58	-21663,73	-22843,87	-22586,98
174,824	0,00	0,00	0,00	0,00	-26533,20	-21894,92	-23136,75	-22866,44
175,316	0,00	0,00	0,00	0,00	-26931,60	-22061,87	-23365,67	-23081,87
175,808	0,00	0,00	0,00	0,00	-27266,32	-22164,13	-23530,17	-23232,82
176,300	0,00	0,00	0,00	0,00	-27536,93	-22201,24	-23629,80	-23318,84
176,797	0,00	0,00	0,00	0,00	-27730,56	-22160,82	-23652,04	-23327,44
177,294	0,00	0,00	0,00	0,00	-27857,76	-22053,16	-23607,26	-23268,97
177,791	0,00	0,00	0,00	0,00	-27918,16	-21877,88	-23495,09	-23143,06
178,288	0,00	0,00	0,00	0,00	-27911,41	-21634,63	-23315,15	-22949,34
178,785	0,00	0,00	0,00	0,00	-27837,12	-21323,04	-23067,10	-22687,46
179,282	0,00	0,00	0,00	0,00	-27694,96	-20942,75	-22750,56	-22357,05
179,779	0,00	0,00	0,00	0,00	-27484,53	-20493,39	-22365,17	-21957,73
180,276	0,00	0,00	0,00	0,00	-27205,49	-19974,60	-21910,57	-21489,16
180,773	0,00	0,00	0,00	0,00	-26857,47	-19386,02	-21386,39	-20950,96
181,270	0,00	0,00	0,00	0,00	-26440,11	-18727,27	-20792,28	-20342,78
181,767	0,00	0,00	0,00	0,00	-25953,03	-17998,00	-20127,85	-19664,24
182,264	0,00	0,00	0,00	0,00	-25395,89	-17197,85	-19392,76	-18914,98
182,761	0,00	0,00	0,00	0,00	-24768,31	-16326,44	-18586,63	-18094,65
183,258	0,00	0,00	0,00	0,00	-24069,92	-15383,42	-17709,11	-17202,87
183,755	0,00	0,00	0,00	0,00	-23300,38	-14368,42	-16759,83	-16239,28
184,252	0,00	0,00	0,00	0,00	-22459,30	-13281,08	-15738,42	-15203,52
184,748	0,00	0,00	0,00	0,00	-21546,33	-12121,03	-14644,52	-14095,22
185,245	0,00	0,00	0,00	0,00	-20561,11	-10887,90	-13477,77	-12914,02
185,742	0,00	0,00	0,00	0,00	-19503,26	-9581,35	-12237,80	-11659,56
186,239	0,00	0,00	0,00	0,00	-18372,43	-8200,99	-10924,25	-10331,47
186,736	0,00	0,00	0,00	0,00	-17168,25	-6746,47	-9536,76	-8929,39
187,233	0,00	0,00	0,00	0,00	-15890,36	-5217,43	-8074,96	-7452,95
187,730	0,00	0,00	0,00	0,00	-14538,39	-3613,49	-6538,48	-5901,78
188,227	0,00	0,00	0,00	0,00	-13111,99	-1934,30	-4926,97	-4275,54
188,724	0,00	0,00	0,00	0,00	-11610,78	-179,49	-3240,06	-2573,85
189,221	0,00	0,00	0,00	0,00	-10034,39	1651,31	-1477,38	-796,35
189,718	0,00	0,00	0,00	0,00	-8382,48	3558,44	361,42	1057,33
190,215	0,00	0,00	0,00	0,00	-6654,67	5542,30	2276,73	2987,56
190,712	0,00	0,00	0,00	0,00	-4850,60	7603,22	4268,88	4994,68

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
191,209	0,00	0,00	0,00	0,00	-2969,91	9741,59	6338,26	7079,08
191,706	0,00	0,00	0,00	0,00	-1012,23	11957,75	8485,22	9241,10
192,203	0,00	0,00	0,00	0,00	1022,80	14252,09	10710,13	11481,12
192,700	0,00	0,00	0,00	0,00	3135,55	16624,95	13013,35	13799,50
193,110	0,00	0,00	0,00	0,00	4787,33	18407,99	14761,25	15555,05
193,520	0,00	0,00	0,00	0,00	6232,60	19982,67	16301,28	17102,63
193,930	0,00	0,00	0,00	0,00	7474,09	21351,72	17636,18	18444,96
194,340	0,00	0,00	0,00	0,00	8514,52	22517,86	18768,66	19584,77
194,750	0,00	0,00	0,00	0,00	9356,62	23483,83	19701,46	20524,79
195,160	0,00	0,00	0,00	0,00	10003,11	24252,33	20437,30	21267,74
195,570	0,00	0,00	0,00	0,00	10456,72	24826,11	20978,91	21816,34
195,980	0,00	0,00	0,00	0,00	10720,17	25207,89	21329,00	22173,34
196,390	0,00	0,00	0,00	0,00	10796,19	25400,38	21490,31	22341,43
196,800	0,00	0,00	0,00	0,00	10687,51	25406,32	21465,57	22323,37
197,210	0,00	0,00	0,00	0,00	10543,24	25042,78	21307,21	22120,35
197,620	0,00	0,00	0,00	0,00	10218,27	24499,98	20967,76	21736,63
198,030	0,00	0,00	0,00	0,00	9715,31	23780,66	20449,92	21174,94
198,440	0,00	0,00	0,00	0,00	9037,09	22887,53	19756,44	20438,00
198,850	0,00	0,00	0,00	0,00	8186,33	21823,32	18890,03	19528,53
199,260	0,00	0,00	0,00	0,00	7165,76	20590,76	17853,42	18449,27
199,670	0,00	0,00	0,00	0,00	5978,11	19192,57	16649,33	17202,93
200,080	0,00	0,00	0,00	0,00	4626,10	17631,48	15280,50	15792,25
200,490	0,00	0,00	0,00	0,00	3112,46	15910,22	13749,64	14219,94
200,900	0,00	0,00	0,00	0,00	1439,91	14031,50	12059,47	12488,73
201,356	0,00	0,00	0,00	0,00	-469,56	11941,29	10169,95	10555,53
201,811	0,00	0,00	0,00	0,00	-2317,62	9913,11	8341,65	8683,72
202,267	0,00	0,00	0,00	0,00	-4104,63	7946,63	6574,24	6872,98
202,722	0,00	0,00	0,00	0,00	-5830,91	6041,51	4867,39	5122,97
203,178	0,00	0,00	0,00	0,00	-7496,78	4197,42	3220,78	3433,37
203,633	0,00	0,00	0,00	0,00	-9102,58	2414,05	1634,07	1803,85
204,089	0,00	0,00	0,00	0,00	-10648,63	691,05	106,93	234,08
204,544	0,00	0,00	0,00	0,00	-12135,27	-971,89	-1360,95	-1276,27
205,000	0,00	0,00	0,00	0,00	-13562,82	-2575,12	-2769,93	-2727,53
205,492	0,00	0,00	0,00	0,00	0,00	-4259,85	-4245,71	-4248,79
205,984	0,00	0,00	0,00	0,00	0,00	-5890,86	-5666,75	-5715,53
206,476	0,00	0,00	0,00	0,00	0,00	-7467,70	-7032,59	-7127,30

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
206,968	0,00	0,00	0,00	0,00	0,00	-8989,92	-8342,79	-8483,65
207,460	0,00	0,00	0,00	0,00	0,00	-10457,06	-9596,88	-9784,12
207,952	0,00	0,00	0,00	0,00	0,00	-11868,67	-10794,43	-11028,26
208,444	0,00	0,00	0,00	0,00	0,00	-13224,29	-11934,97	-12215,62
208,936	0,00	0,00	0,00	0,00	0,00	-14523,49	-13018,05	-13345,75
209,428	0,00	0,00	0,00	0,00	0,00	-15765,80	-14043,22	-14418,18
209,920	0,00	0,00	0,00	0,00	0,00	-16950,77	-15010,04	-15432,48
210,412	0,00	0,00	0,00	0,00	0,00	-18077,94	-15918,04	-16388,19
210,904	0,00	0,00	0,00	0,00	0,00	-19146,88	-16766,77	-17284,86
211,396	0,00	0,00	0,00	0,00	0,00	-20157,11	-17555,78	-18122,03
211,888	0,00	0,00	0,00	0,00	0,00	-21108,21	-18284,63	-18899,25
212,380	0,00	0,00	0,00	0,00	0,00	-21999,69	-18952,85	-19616,07
212,872	0,00	0,00	0,00	0,00	0,00	-22831,13	-19559,99	-20272,03
213,364	0,00	0,00	0,00	0,00	0,00	-23602,06	-20105,61	-20866,70
213,856	0,00	0,00	0,00	0,00	0,00	-24312,04	-20589,24	-21399,60
214,348	0,00	0,00	0,00	0,00	0,00	-24960,60	-21010,45	-21870,29
214,840	0,00	0,00	0,00	0,00	0,00	-25547,30	-21368,76	-22278,32
215,332	0,00	0,00	0,00	0,00	0,00	-26071,68	-21663,74	-22623,24
215,824	0,00	0,00	0,00	0,00	0,00	-26533,30	-21894,93	-22904,59
216,316	0,00	0,00	0,00	0,00	0,00	-26931,70	-22061,88	-23121,92
216,808	0,00	0,00	0,00	0,00	0,00	-27266,42	-22164,13	-23274,77
217,300	0,00	0,00	0,00	0,00	0,00	-27537,02	-22201,24	-23362,70
217,797	0,00	0,00	0,00	0,00	0,00	-27730,65	-22160,81	-23373,23
218,294	0,00	0,00	0,00	0,00	0,00	-27857,85	-22053,14	-23316,68
218,791	0,00	0,00	0,00	0,00	0,00	-27918,26	-21877,87	-23192,70
219,288	0,00	0,00	0,00	0,00	0,00	-27911,49	-21634,61	-23000,93
219,785	0,00	0,00	0,00	0,00	0,00	-27837,21	-21323,02	-22740,99
220,282	0,00	0,00	0,00	0,00	0,00	-27695,04	-20942,72	-22412,53
220,779	0,00	0,00	0,00	0,00	0,00	-27484,61	-20493,36	-22015,17
221,276	0,00	0,00	0,00	0,00	0,00	-27205,57	-19974,56	-21548,57
221,773	0,00	0,00	0,00	0,00	0,00	-26857,55	-19385,97	-21012,34
222,270	0,00	0,00	0,00	0,00	0,00	-26440,18	-18727,22	-20406,13
222,767	0,00	0,00	0,00	0,00	0,00	-25953,11	-17997,95	-19729,58
223,264	0,00	0,00	0,00	0,00	0,00	-25395,96	-17197,79	-18982,32
223,761	0,00	0,00	0,00	0,00	0,00	-24768,37	-16326,37	-18163,98
224,258	0,00	0,00	0,00	0,00	0,00	-24069,99	-15383,35	-17274,21

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
224,755	0,00	0,00	0,00	0,00	0,00	-23300,44	-14368,34	-16312,63
225,252	0,00	0,00	0,00	0,00	0,00	-22459,36	-13280,99	-15278,89
225,748	0,00	0,00	0,00	0,00	0,00	-21546,39	-12120,94	-14172,62
226,245	0,00	0,00	0,00	0,00	0,00	-20561,16	-10887,81	-12993,45
226,742	0,00	0,00	0,00	0,00	0,00	-19503,31	-9581,25	-11741,03
227,239	0,00	0,00	0,00	0,00	0,00	-18372,48	-8200,89	-10414,98
227,736	0,00	0,00	0,00	0,00	0,00	-17168,30	-6746,36	-9014,95
228,233	0,00	0,00	0,00	0,00	0,00	-15890,41	-5217,31	-7540,57
228,730	0,00	0,00	0,00	0,00	0,00	-14538,44	-3613,37	-5991,48
229,227	0,00	0,00	0,00	0,00	0,00	-13112,03	-1934,17	-4367,31
229,724	0,00	0,00	0,00	0,00	0,00	-11610,82	-179,36	-2667,70
230,221	0,00	0,00	0,00	0,00	0,00	-10034,43	1651,44	-892,27
230,718	0,00	0,00	0,00	0,00	0,00	-8382,52	3558,59	959,31
231,215	0,00	0,00	0,00	0,00	0,00	-6654,71	5542,44	2887,43
231,712	0,00	0,00	0,00	0,00	0,00	-4850,64	7603,37	4892,45
232,209	0,00	0,00	0,00	0,00	0,00	-2969,94	9741,74	6974,74
232,706	0,00	0,00	0,00	0,00	0,00	-1012,26	11957,91	9134,64
233,203	0,00	0,00	0,00	0,00	0,00	1022,78	14252,25	11372,54
233,700	0,00	0,00	0,00	0,00	0,00	3135,53	16625,13	13688,79
234,110	0,00	0,00	0,00	0,00	0,00	4787,31	18408,17	15443,26
234,520	0,00	0,00	0,00	0,00	0,00	6232,59	19982,85	16989,77
234,930	0,00	0,00	0,00	0,00	0,00	7474,08	21351,90	18331,06
235,340	0,00	0,00	0,00	0,00	0,00	8514,51	22518,05	19469,84
235,750	0,00	0,00	0,00	0,00	0,00	9356,61	23484,02	20408,84
236,160	0,00	0,00	0,00	0,00	0,00	10003,10	24252,53	21150,79
236,570	0,00	0,00	0,00	0,00	0,00	10456,71	24826,31	21698,42
236,980	0,00	0,00	0,00	0,00	0,00	10720,16	25208,09	22054,44
237,390	0,00	0,00	0,00	0,00	0,00	10796,19	25400,58	22221,58
237,800	0,00	0,00	0,00	0,00	0,00	10687,51	25406,53	22202,57
238,210	0,00	0,00	0,00	0,00	0,00	10543,24	25042,97	22005,84
238,620	0,00	0,00	0,00	0,00	0,00	10218,27	24500,17	21628,36
239,030	0,00	0,00	0,00	0,00	0,00	9715,31	23780,83	21072,85
239,440	0,00	0,00	0,00	0,00	0,00	9037,09	22887,69	20342,02
239,850	0,00	0,00	0,00	0,00	0,00	8186,33	21823,47	19438,62
240,260	0,00	0,00	0,00	0,00	0,00	7165,76	20590,90	18365,36
240,670	0,00	0,00	0,00	0,00	0,00	5978,11	19192,70	17124,97

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
241,080	0,00	0,00	0,00	0,00	0,00	4626,10	17631,60	15720,18
241,490	0,00	0,00	0,00	0,00	0,00	3112,46	15910,33	14153,71
241,900	0,00	0,00	0,00	0,00	0,00	1439,91	14031,60	12428,29
242,356	0,00	0,00	0,00	0,00	0,00	-469,56	11941,38	10501,23
242,811	0,00	0,00	0,00	0,00	0,00	-2317,62	9913,18	8635,54
243,267	0,00	0,00	0,00	0,00	0,00	-4104,63	7946,69	6830,90
243,722	0,00	0,00	0,00	0,00	0,00	-5830,91	6041,56	5086,97
244,178	0,00	0,00	0,00	0,00	0,00	-7496,78	4197,47	3403,43
244,633	0,00	0,00	0,00	0,00	0,00	-9102,58	2414,08	1779,94
245,089	0,00	0,00	0,00	0,00	0,00	-10648,63	691,08	216,17
245,544	0,00	0,00	0,00	0,00	0,00	-12135,27	-971,88	-1288,20
246,000	0,00	0,00	0,00	0,00	0,00	-13562,82	-2575,12	-2733,51
246,492	0,00	0,00	0,00	0,00	0,00	0,00	-4259,86	-4248,36
246,984	0,00	0,00	0,00	0,00	0,00	0,00	-5890,88	-5708,67
247,476	0,00	0,00	0,00	0,00	0,00	0,00	-7467,74	-7113,98
247,968	0,00	0,00	0,00	0,00	0,00	0,00	-8989,96	-8463,82
248,460	0,00	0,00	0,00	0,00	0,00	0,00	-10457,11	-9757,76
248,952	0,00	0,00	0,00	0,00	0,00	0,00	-11868,73	-10995,34
249,444	0,00	0,00	0,00	0,00	0,00	0,00	-13224,38	-12176,11
249,936	0,00	0,00	0,00	0,00	0,00	0,00	-14523,58	-13299,61
250,428	0,00	0,00	0,00	0,00	0,00	0,00	-15765,90	-14365,40
250,920	0,00	0,00	0,00	0,00	0,00	0,00	-16950,88	-15373,01
251,412	0,00	0,00	0,00	0,00	0,00	0,00	-18078,07	-16322,00
251,904	0,00	0,00	0,00	0,00	0,00	0,00	-19147,02	-17211,92
252,396	0,00	0,00	0,00	0,00	0,00	0,00	-20157,27	-18042,30
252,888	0,00	0,00	0,00	0,00	0,00	0,00	-21108,37	-18812,71
253,380	0,00	0,00	0,00	0,00	0,00	0,00	-21999,87	-19522,69
253,872	0,00	0,00	0,00	0,00	0,00	0,00	-22831,32	-20171,78
254,364	0,00	0,00	0,00	0,00	0,00	0,00	-23602,27	-20759,54
254,856	0,00	0,00	0,00	0,00	0,00	0,00	-24312,25	-21285,51
255,348	0,00	0,00	0,00	0,00	0,00	0,00	-24960,83	-21749,23
255,840	0,00	0,00	0,00	0,00	0,00	0,00	-25547,54	-22150,26
256,332	0,00	0,00	0,00	0,00	0,00	0,00	-26071,94	-22488,14
256,824	0,00	0,00	0,00	0,00	0,00	0,00	-26533,56	-22762,43
257,316	0,00	0,00	0,00	0,00	0,00	0,00	-26931,98	-22972,66
257,808	0,00	0,00	0,00	0,00	0,00	0,00	-27266,71	-23118,39

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
258,300	0,00	0,00	0,00	0,00	0,00	0,00	-27537,33	-23199,17
258,797	0,00	0,00	0,00	0,00	0,00	0,00	-27730,97	-23202,52
259,294	0,00	0,00	0,00	0,00	0,00	0,00	-27858,18	-23138,78
259,791	0,00	0,00	0,00	0,00	0,00	0,00	-27918,60	-23007,58
260,288	0,00	0,00	0,00	0,00	0,00	0,00	-27911,85	-22808,55
260,785	0,00	0,00	0,00	0,00	0,00	0,00	-27837,58	-22541,34
261,282	0,00	0,00	0,00	0,00	0,00	0,00	-27695,42	-22205,58
261,779	0,00	0,00	0,00	0,00	0,00	0,00	-27485,01	-21800,90
262,276	0,00	0,00	0,00	0,00	0,00	0,00	-27205,98	-21326,95
262,773	0,00	0,00	0,00	0,00	0,00	0,00	-26857,97	-20783,35
263,270	0,00	0,00	0,00	0,00	0,00	0,00	-26440,62	-20169,74
263,767	0,00	0,00	0,00	0,00	0,00	0,00	-25953,55	-19485,77
264,264	0,00	0,00	0,00	0,00	0,00	0,00	-25396,42	-18731,05
264,761	0,00	0,00	0,00	0,00	0,00	0,00	-24768,85	-17905,24
265,258	0,00	0,00	0,00	0,00	0,00	0,00	-24070,48	-17007,97
265,755	0,00	0,00	0,00	0,00	0,00	0,00	-23300,94	-16038,87
266,252	0,00	0,00	0,00	0,00	0,00	0,00	-22459,87	-14997,58
266,748	0,00	0,00	0,00	0,00	0,00	0,00	-21546,92	-13883,74
267,245	0,00	0,00	0,00	0,00	0,00	0,00	-20561,70	-12696,97
267,742	0,00	0,00	0,00	0,00	0,00	0,00	-19503,87	-11436,93
268,239	0,00	0,00	0,00	0,00	0,00	0,00	-18373,05	-10103,23
268,736	0,00	0,00	0,00	0,00	0,00	0,00	-17168,88	-8695,53
269,233	0,00	0,00	0,00	0,00	0,00	0,00	-15891,00	-7213,45
269,730	0,00	0,00	0,00	0,00	0,00	0,00	-14539,05	-5656,64
270,227	0,00	0,00	0,00	0,00	0,00	0,00	-13112,65	-4024,72
270,724	0,00	0,00	0,00	0,00	0,00	0,00	-11611,45	-2317,33
271,221	0,00	0,00	0,00	0,00	0,00	0,00	-10035,09	-534,12
271,718	0,00	0,00	0,00	0,00	0,00	0,00	-8383,18	1325,30
272,215	0,00	0,00	0,00	0,00	0,00	0,00	-6655,39	3261,26
272,712	0,00	0,00	0,00	0,00	0,00	0,00	-4851,33	5274,16
273,209	0,00	0,00	0,00	0,00	0,00	0,00	-2970,65	7364,34
273,706	0,00	0,00	0,00	0,00	0,00	0,00	-1012,98	9532,17
274,203	0,00	0,00	0,00	0,00	0,00	0,00	1022,04	11778,01
274,700	0,00	0,00	0,00	0,00	0,00	0,00	3134,78	14102,23
275,110	0,00	0,00	0,00	0,00	0,00	0,00	4786,56	15860,72
275,520	0,00	0,00	0,00	0,00	0,00	0,00	6231,82	17411,20

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
275,930	0,00	0,00	0,00	0,00	0,00	0,00	7473,30	18756,40
276,340	0,00	0,00	0,00	0,00	0,00	0,00	8513,73	19899,03
276,750	0,00	0,00	0,00	0,00	0,00	0,00	9355,82	20841,84
277,160	0,00	0,00	0,00	0,00	0,00	0,00	10002,31	21587,52
277,570	0,00	0,00	0,00	0,00	0,00	0,00	10455,91	22138,83
277,980	0,00	0,00	0,00	0,00	0,00	0,00	10719,36	22498,48
278,390	0,00	0,00	0,00	0,00	0,00	0,00	10795,38	22669,19
278,800	0,00	0,00	0,00	0,00	0,00	0,00	10686,69	22653,70
279,210	0,00	0,00	0,00	0,00	0,00	0,00	10542,48	22301,43
279,620	0,00	0,00	0,00	0,00	0,00	0,00	10217,57	21769,93
280,030	0,00	0,00	0,00	0,00	0,00	0,00	9714,66	21061,92
280,440	0,00	0,00	0,00	0,00	0,00	0,00	9036,50	20180,13
280,850	0,00	0,00	0,00	0,00	0,00	0,00	8185,80	19127,29
281,260	0,00	0,00	0,00	0,00	0,00	0,00	7165,29	17906,12
281,670	0,00	0,00	0,00	0,00	0,00	0,00	5977,69	16519,35
282,080	0,00	0,00	0,00	0,00	0,00	0,00	4625,73	14969,70
282,490	0,00	0,00	0,00	0,00	0,00	0,00	3112,14	13259,89
282,900	0,00	0,00	0,00	0,00	0,00	0,00	1439,65	11392,66
283,356	0,00	0,00	0,00	0,00	0,00	0,00	-469,76	9305,33
283,811	0,00	0,00	0,00	0,00	0,00	0,00	-2317,78	7280,04
284,267	0,00	0,00	0,00	0,00	0,00	0,00	-4104,75	5316,44
284,722	0,00	0,00	0,00	0,00	0,00	0,00	-5830,99	3414,22
285,178	0,00	0,00	0,00	0,00	0,00	0,00	-7496,83	1573,03
285,633	0,00	0,00	0,00	0,00	0,00	0,00	-9102,60	-207,44
286,089	0,00	0,00	0,00	0,00	0,00	0,00	-10648,64	-1927,52
286,544	0,00	0,00	0,00	0,00	0,00	0,00	-12135,27	-3587,56
287,000	0,00	0,00	0,00	0,00	0,00	0,00	-13562,82	-5187,87
287,492	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-7919,26
287,984	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-9804,88
288,476	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-11627,53
288,968	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-13386,71
289,460	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-15081,94
289,952	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-16712,76
290,444	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-18278,67
290,936	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-19779,19
291,428	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-21213,85

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
291,920	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-22582,16
292,412	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-23883,64
292,904	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-25117,81
293,396	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-26284,19
293,888	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-27382,30
294,380	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-28411,66
294,872	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-29371,79
295,364	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-30262,20
295,856	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-31082,41
296,348	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-31831,95
296,840	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-32510,33
297,332	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-33117,07
297,824	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-33651,70
298,316	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-34113,72
298,808	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-34502,66
299,300	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-34818,04
299,782	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-34860,06
300,265	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-34779,22
300,747	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-34576,53
301,229	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-34253,03
301,712	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-33809,71
302,194	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-33247,60
302,676	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-32567,72
303,159	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-31771,09
303,641	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-30858,71
304,124	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-29831,61
304,606	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-28690,80
305,088	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-27437,31
305,571	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-26072,14
306,053	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-24596,32
306,535	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-23010,86
307,018	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-21316,78
307,500	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-19515,10
307,910	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-17892,03
308,320	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-16194,01
308,730	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-14421,78

x [m]	$M_{PE,1}$ [kN.m]	$M_{PE,2}$ [kN.m]	$M_{PE,3}$ [kN.m]	$M_{PE,4}$ [kN.m]	$M_{PE,5}$ [kN.m]	$M_{PE,6}$ [kN.m]	$M_{PE,7}$ [kN.m]	$M_{PE,8}$ [kN.m]
309,140	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-12576,08
309,550	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-10657,63
309,960	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-8667,18
310,370	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-6605,45
310,780	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-4473,19
311,190	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-2271,13
311,600	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

D.2 Tensões nas fibras nas fases construtivas

D.2.1 Fases 1, 2, 3 e 4

v_{sup} [m]	v_{inf} [m]	f_{ctm} [MPa]	f_{ctk} [MPa]
0,674	1,926	3,200	2,200

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
0,000	13,219	7,222	-1,499	-1,499	-1,499	-1,499	-1,499	-1,499	-1,499	-1,499
0,410	12,665	6,950	-1,493	-1,788	-1,489	-1,799	-1,490	-1,796	-1,490	-1,797
0,820	12,111	6,678	-1,485	-2,106	-1,477	-2,129	-1,480	-2,123	-1,479	-2,124
1,230	11,558	6,406	-1,476	-2,456	-1,464	-2,490	-1,468	-2,481	-1,467	-2,483
1,640	11,004	6,134	-1,467	-2,838	-1,451	-2,886	-1,455	-2,873	-1,454	-2,877
2,050	10,450	5,862	-1,459	-3,258	-1,437	-3,319	-1,443	-3,303	-1,441	-3,307
2,460	9,896	5,590	-1,451	-3,717	-1,425	-3,793	-1,432	-3,773	-1,430	-3,778
2,870	9,343	5,318	-1,446	-4,221	-1,414	-4,313	-1,423	-4,289	-1,421	-4,295
3,280	8,789	5,046	-1,446	-4,775	-1,408	-4,884	-1,418	-4,855	-1,415	-4,863
3,690	8,235	4,774	-1,452	-5,386	-1,407	-5,513	-1,419	-5,479	-1,416	-5,488
4,100	7,682	4,502	-1,466	-6,061	-1,414	-6,209	-1,428	-6,169	-1,425	-6,180
4,582	7,128	4,230	-1,476	-6,862	-1,415	-7,036	-1,431	-6,989	-1,427	-7,002
5,065	7,128	4,230	-1,364	-7,215	-1,297	-7,404	-1,315	-7,353	-1,310	-7,366
5,547	7,128	4,230	-1,260	-7,543	-1,188	-7,747	-1,208	-7,692	-1,202	-7,707
6,029	7,128	4,230	-1,164	-7,847	-1,088	-8,065	-1,109	-8,007	-1,103	-8,023
6,512	7,128	4,230	-1,078	-8,127	-0,997	-8,359	-1,019	-8,297	-1,013	-8,313
6,994	7,128	4,230	-1,000	-8,382	-0,914	-8,626	-0,937	-8,561	-0,931	-8,578

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
7,476	7,128	4,230	-0,931	-8,611	-0,841	-8,868	-0,865	-8,799	-0,859	-8,817
7,959	7,128	4,230	-0,871	-8,814	-0,777	-9,083	-0,802	-9,011	-0,795	-9,030
8,441	7,128	4,230	-0,820	-8,991	-0,722	-9,272	-0,748	-9,196	-0,741	-9,217
8,924	7,128	4,230	-0,779	-9,141	-0,677	-9,433	-0,704	-9,355	-0,697	-9,376
9,406	7,128	4,230	-0,747	-9,265	-0,641	-9,566	-0,670	-9,485	-0,662	-9,507
9,888	7,128	4,230	-0,725	-9,360	-0,616	-9,672	-0,645	-9,588	-0,637	-9,611
10,371	7,128	4,230	-0,712	-9,428	-0,600	-9,749	-0,630	-9,663	-0,622	-9,686
10,853	7,128	4,230	-0,709	-9,468	-0,594	-9,797	-0,625	-9,709	-0,617	-9,733
11,335	7,128	4,230	-0,717	-9,479	-0,599	-9,816	-0,630	-9,726	-0,622	-9,750
11,818	7,128	4,230	-0,734	-9,461	-0,614	-9,806	-0,646	-9,713	-0,637	-9,738
12,300	7,128	4,230	-0,762	-9,413	-0,639	-9,765	-0,672	-9,670	-0,663	-9,696
12,797	7,128	4,230	-0,801	-9,324	-0,674	-9,685	-0,708	-9,588	-0,699	-9,614
13,294	7,128	4,230	-0,843	-9,224	-0,713	-9,594	-0,748	-9,495	-0,739	-9,522
13,791	7,128	4,230	-0,889	-9,114	-0,756	-9,493	-0,792	-9,391	-0,782	-9,418
14,288	7,128	4,230	-0,939	-8,993	-0,803	-9,380	-0,840	-9,276	-0,830	-9,304
14,785	7,128	4,230	-0,992	-8,861	-0,854	-9,256	-0,891	-9,150	-0,881	-9,178
15,282	7,128	4,230	-1,050	-8,718	-0,909	-9,120	-0,947	-9,012	-0,937	-9,041
15,779	7,128	4,230	-1,111	-8,563	-0,968	-8,972	-1,006	-8,863	-0,996	-8,892
16,276	7,128	4,230	-1,177	-8,397	-1,031	-8,813	-1,070	-8,701	-1,060	-8,731
16,773	7,128	4,230	-1,246	-8,220	-1,099	-8,642	-1,138	-8,528	-1,128	-8,559
17,270	7,128	4,230	-1,320	-8,030	-1,170	-8,458	-1,210	-8,343	-1,200	-8,374
17,767	7,128	4,230	-1,398	-7,829	-1,246	-8,262	-1,287	-8,146	-1,276	-8,177
18,264	7,128	4,230	-1,480	-7,615	-1,326	-8,054	-1,368	-7,936	-1,357	-7,967
18,761	7,128	4,230	-1,566	-7,389	-1,411	-7,832	-1,453	-7,713	-1,442	-7,745
19,258	7,128	4,230	-1,657	-7,151	-1,501	-7,598	-1,543	-7,478	-1,531	-7,510
19,755	7,128	4,230	-1,752	-6,899	-1,594	-7,351	-1,637	-7,230	-1,625	-7,262
20,252	7,128	4,230	-1,852	-6,635	-1,693	-7,091	-1,736	-6,968	-1,724	-7,001
20,748	7,128	4,230	-1,957	-6,358	-1,796	-6,817	-1,839	-6,694	-1,828	-6,727
21,245	7,128	4,230	-2,065	-6,068	-1,904	-6,530	-1,947	-6,406	-1,936	-6,439
21,742	7,128	4,230	-2,179	-5,765	-2,017	-6,229	-2,060	-6,104	-2,049	-6,138
22,239	7,128	4,230	-2,297	-5,448	-2,134	-5,914	-2,178	-5,789	-2,166	-5,822
22,736	7,128	4,230	-2,420	-5,117	-2,257	-5,585	-2,301	-5,460	-2,289	-5,493
23,233	7,128	4,230	-2,548	-4,773	-2,384	-5,242	-2,428	-5,116	-2,416	-5,150
23,730	7,128	4,230	-2,681	-4,415	-2,517	-4,885	-2,561	-4,759	-2,549	-4,792
24,227	7,128	4,230	-2,819	-4,042	-2,654	-4,513	-2,698	-4,386	-2,686	-4,420
24,724	7,128	4,230	-2,962	-3,655	-2,797	-4,126	-2,841	-4,000	-2,829	-4,034

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
25,221	7,128	4,230	-3,109	-3,254	-2,945	-3,725	-2,989	-3,598	-2,977	-3,632
25,718	7,128	4,230	-3,262	-2,838	-3,098	-3,308	-3,142	-3,182	-3,130	-3,216
26,215	7,128	4,230	-3,420	-2,407	-3,256	-2,876	-3,300	-2,750	-3,288	-2,784
26,712	7,128	4,230	-3,584	-1,962	-3,420	-2,429	-3,464	-2,304	-3,452	-2,337
27,209	7,128	4,230	-3,752	-1,501	-3,589	-1,967	-3,633	-1,842	-3,621	-1,875
27,706	7,128	4,230	-3,926	-1,024	-3,764	-1,489	-3,808	-1,364	-3,796	-1,397
28,203	7,128	4,230	-4,106	-0,533	-3,944	-0,994	-3,988	-0,870	-3,976	-0,904
28,700	7,128	4,230	-4,291	-0,025	-4,130	-0,484	-4,173	-0,361	-4,162	-0,394
29,110	7,402	4,470	-4,222	0,287	-4,057	-0,182	-4,101	-0,056	-4,090	-0,090
29,520	7,675	4,711	-4,121	0,473	-3,953	-0,007	-3,998	0,122	-3,986	0,088
29,930	7,949	4,952	-3,993	0,550	-3,822	0,060	-3,868	0,192	-3,856	0,157
30,340	8,223	5,192	-3,843	0,532	-3,668	0,033	-3,715	0,167	-3,703	0,131
30,750	8,496	5,433	-3,673	0,432	-3,495	-0,077	-3,543	0,060	-3,530	0,023
31,160	8,770	5,674	-3,486	0,259	-3,305	-0,259	-3,354	-0,120	-3,341	-0,157
31,570	9,044	5,914	-3,284	0,021	-3,100	-0,506	-3,149	-0,364	-3,136	-0,402
31,980	9,317	6,155	-3,070	-0,273	-2,882	-0,809	-2,932	-0,665	-2,919	-0,704
32,390	9,591	6,396	-2,843	-0,619	-2,652	-1,164	-2,704	-1,018	-2,690	-1,057
32,800	9,865	6,636	-2,606	-1,011	-2,413	-1,565	-2,465	-1,416	-2,451	-1,456
33,210	9,591	6,396	-2,738	-0,834	-2,625	-1,155	-2,679	-1,002	-2,664	-1,043
33,620	9,317	6,155	-2,851	-0,720	-2,827	-0,789	-2,882	-0,632	-2,867	-0,674
34,030	9,044	5,914	-2,946	-0,672	-3,017	-0,469	-3,073	-0,308	-3,058	-0,351
34,440	8,770	5,674	-3,020	-0,697	-3,195	-0,198	-3,252	-0,033	-3,237	-0,077
34,850	8,496	5,433	-3,071	-0,803	-3,359	0,019	-3,417	0,187	-3,402	0,142
35,260	8,223	5,192	-3,096	-0,998	-3,508	0,178	-3,568	0,348	-3,552	0,303
35,670	7,949	4,952	-3,094	-1,293	-3,641	0,272	-3,702	0,445	-3,686	0,398
36,080	7,675	4,711	-3,059	-1,699	-3,757	0,294	-3,818	0,469	-3,802	0,422
36,490	7,402	4,470	-2,988	-2,232	-3,852	0,237	-3,914	0,413	-3,897	0,365
36,900	7,128	4,230	-2,875	-2,911	-3,925	0,089	-3,987	0,265	-3,970	0,218
37,356	7,128	4,230	-2,615	-3,631	-3,825	-0,175	-3,881	-0,014	-3,866	-0,057
37,811	7,128	4,230	-2,359	-4,341	-3,728	-0,428	-3,779	-0,282	-3,766	-0,321
38,267	7,128	4,230	-2,107	-5,039	-3,636	-0,670	-3,681	-0,539	-3,669	-0,574
38,722	7,128	4,230	-1,858	-5,727	-3,547	-0,900	-3,587	-0,786	-3,576	-0,816
39,178	7,128	4,230	-1,613	-6,403	-3,462	-1,120	-3,497	-1,022	-3,487	-1,048
39,633	7,128	4,230	-1,372	-7,070	-3,381	-1,328	-3,410	-1,247	-3,402	-1,269
40,089	7,128	4,230	-1,135	-7,726	-3,304	-1,526	-3,327	-1,462	-3,321	-1,479
40,544	7,128	4,230	-0,901	-8,372	-3,231	-1,714	-3,247	-1,667	-3,243	-1,680

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
41,000	7,128	4,230	-0,670	-9,007	-3,161	-1,891	-3,171	-1,862	-3,168	-1,870
41,492	7,128	4,230	0,000	0,000	-3,099	-2,092	-3,103	-2,083	-3,102	-2,086
41,984	7,128	4,230	0,000	0,000	-3,040	-2,289	-3,036	-2,299	-3,037	-2,296
42,476	7,128	4,230	0,000	0,000	-2,982	-2,480	-2,972	-2,510	-2,975	-2,502
42,968	7,128	4,230	0,000	0,000	-2,927	-2,667	-2,910	-2,714	-2,914	-2,702
43,460	7,128	4,230	0,000	0,000	-2,873	-2,848	-2,850	-2,913	-2,856	-2,896
43,952	7,128	4,230	0,000	0,000	-2,821	-3,023	-2,792	-3,106	-2,799	-3,084
44,444	7,128	4,230	0,000	0,000	-2,771	-3,192	-2,736	-3,292	-2,745	-3,266
44,936	7,128	4,230	0,000	0,000	-2,723	-3,356	-2,682	-3,472	-2,693	-3,441
45,428	7,128	4,230	0,000	0,000	-2,677	-3,513	-2,631	-3,646	-2,643	-3,610
45,920	7,128	4,230	0,000	0,000	-2,634	-3,663	-2,582	-3,812	-2,596	-3,772
46,412	7,128	4,230	0,000	0,000	-2,593	-3,807	-2,536	-3,971	-2,551	-3,927
46,904	7,128	4,230	0,000	0,000	-2,554	-3,944	-2,492	-4,123	-2,509	-4,075
47,396	7,128	4,230	0,000	0,000	-2,518	-4,074	-2,451	-4,267	-2,469	-4,216
47,888	7,128	4,230	0,000	0,000	-2,485	-4,197	-2,412	-4,404	-2,432	-4,348
48,380	7,128	4,230	0,000	0,000	-2,454	-4,313	-2,377	-4,532	-2,397	-4,473
48,872	7,128	4,230	0,000	0,000	-2,425	-4,420	-2,344	-4,653	-2,366	-4,590
49,364	7,128	4,230	0,000	0,000	-2,400	-4,520	-2,314	-4,765	-2,337	-4,699
49,856	7,128	4,230	0,000	0,000	-2,377	-4,611	-2,287	-4,868	-2,311	-4,800
50,348	7,128	4,230	0,000	0,000	-2,357	-4,695	-2,263	-4,963	-2,288	-4,891
50,840	7,128	4,230	0,000	0,000	-2,340	-4,770	-2,243	-5,049	-2,269	-4,974
51,332	7,128	4,230	0,000	0,000	-2,327	-4,836	-2,225	-5,125	-2,252	-5,048
51,824	7,128	4,230	0,000	0,000	-2,316	-4,893	-2,211	-5,192	-2,239	-5,112
52,316	7,128	4,230	0,000	0,000	-2,309	-4,941	-2,200	-5,250	-2,229	-5,167
52,808	7,128	4,230	0,000	0,000	-2,304	-4,979	-2,193	-5,298	-2,223	-5,212
53,300	7,128	4,230	0,000	0,000	-2,304	-5,009	-2,189	-5,335	-2,220	-5,248
53,797	7,128	4,230	0,000	0,000	-2,307	-5,020	-2,189	-5,357	-2,221	-5,266
54,294	7,128	4,230	0,000	0,000	-2,314	-5,022	-2,193	-5,367	-2,225	-5,275
54,791	7,128	4,230	0,000	0,000	-2,324	-5,013	-2,200	-5,367	-2,233	-5,272
55,288	7,128	4,230	0,000	0,000	-2,338	-4,993	-2,212	-5,356	-2,246	-5,259
55,785	7,128	4,230	0,000	0,000	-2,356	-4,963	-2,227	-5,333	-2,261	-5,234
56,282	7,128	4,230	0,000	0,000	-2,378	-4,922	-2,246	-5,300	-2,281	-5,199
56,779	7,128	4,230	0,000	0,000	-2,404	-4,870	-2,269	-5,255	-2,305	-5,152
57,276	7,128	4,230	0,000	0,000	-2,433	-4,807	-2,296	-5,199	-2,333	-5,094
57,773	7,128	4,230	0,000	0,000	-2,467	-4,732	-2,327	-5,131	-2,365	-5,024
58,270	7,128	4,230	0,000	0,000	-2,504	-4,646	-2,363	-5,051	-2,400	-4,942

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
58,767	7,128	4,230	0,000	0,000	-2,546	-4,548	-2,402	-4,959	-2,441	-4,849
59,264	7,128	4,230	0,000	0,000	-2,592	-4,439	-2,446	-4,854	-2,485	-4,743
59,761	7,128	4,230	0,000	0,000	-2,642	-4,317	-2,494	-4,738	-2,534	-4,625
60,258	7,128	4,230	0,000	0,000	-2,696	-4,183	-2,547	-4,608	-2,587	-4,494
60,755	7,128	4,230	0,000	0,000	-2,754	-4,037	-2,604	-4,466	-2,644	-4,351
61,252	7,128	4,230	0,000	0,000	-2,817	-3,878	-2,666	-4,311	-2,706	-4,195
61,748	7,128	4,230	0,000	0,000	-2,885	-3,706	-2,732	-4,143	-2,773	-4,026
62,245	7,128	4,230	0,000	0,000	-2,956	-3,522	-2,803	-3,962	-2,844	-3,844
62,742	7,128	4,230	0,000	0,000	-3,033	-3,325	-2,878	-3,768	-2,919	-3,649
63,239	7,128	4,230	0,000	0,000	-3,114	-3,114	-2,958	-3,559	-3,000	-3,440
63,736	7,128	4,230	0,000	0,000	-3,200	-2,891	-3,043	-3,338	-3,085	-3,218
64,233	7,128	4,230	0,000	0,000	-3,290	-2,653	-3,133	-3,102	-3,175	-2,982
64,730	7,128	4,230	0,000	0,000	-3,385	-2,402	-3,228	-2,852	-3,270	-2,732
65,227	7,128	4,230	0,000	0,000	-3,485	-2,137	-3,328	-2,588	-3,370	-2,467
65,724	7,128	4,230	0,000	0,000	-3,590	-1,858	-3,432	-2,310	-3,475	-2,189
66,221	7,128	4,230	0,000	0,000	-3,700	-1,565	-3,542	-2,017	-3,585	-1,896
66,718	7,128	4,230	0,000	0,000	-3,815	-1,258	-3,657	-1,709	-3,700	-1,588
67,215	7,128	4,230	0,000	0,000	-3,935	-0,936	-3,778	-1,386	-3,820	-1,266
67,712	7,128	4,230	0,000	0,000	-4,060	-0,600	-3,903	-1,049	-3,945	-0,928
68,209	7,128	4,230	0,000	0,000	-4,191	-0,248	-4,034	-0,696	-4,076	-0,576
68,706	7,128	4,230	0,000	0,000	-4,326	0,118	-4,170	-0,328	-4,212	-0,208
69,203	7,128	4,230	0,000	0,000	-4,467	0,500	-4,312	0,056	-4,354	0,175
69,700	7,128	4,230	0,000	0,000	-4,614	0,897	-4,459	0,455	-4,500	0,574
70,110	7,402	4,470	0,000	0,000	-4,495	1,069	-4,337	0,618	-4,380	0,739
70,520	7,675	4,711	0,000	0,000	-4,351	1,130	-4,189	0,669	-4,233	0,792
70,930	7,949	4,952	0,000	0,000	-4,184	1,095	-4,019	0,624	-4,063	0,750
71,340	8,223	5,192	0,000	0,000	-3,998	0,976	-3,830	0,495	-3,875	0,624
71,750	8,496	5,433	0,000	0,000	-3,796	0,784	-3,625	0,294	-3,671	0,425
72,160	8,770	5,674	0,000	0,000	-3,580	0,528	-3,406	0,028	-3,452	0,162
72,570	9,044	5,914	0,000	0,000	-3,352	0,214	-3,174	-0,294	-3,222	-0,158
72,980	9,317	6,155	0,000	0,000	-3,113	-0,150	-2,932	-0,667	-2,980	-0,529
73,390	9,591	6,396	0,000	0,000	-2,864	-0,560	-2,680	-1,086	-2,729	-0,945
73,800	9,865	6,636	0,000	0,000	-2,606	-1,011	-2,419	-1,546	-2,469	-1,402
74,210	9,591	6,396	0,000	0,000	-2,738	-0,834	-2,632	-1,135	-2,684	-0,988
74,620	9,317	6,155	0,000	0,000	-2,851	-0,720	-2,835	-0,767	-2,887	-0,616
75,030	9,044	5,914	0,000	0,000	-2,946	-0,672	-3,025	-0,445	-3,079	-0,291

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
75,440	8,770	5,674	0,000	0,000	-3,020	-0,697	-3,203	-0,173	-3,258	-0,015
75,850	8,496	5,433	0,000	0,000	-3,071	-0,803	-3,368	0,046	-3,424	0,206
76,260	8,223	5,192	0,000	0,000	-3,096	-0,998	-3,518	0,207	-3,575	0,369
76,670	7,949	4,952	0,000	0,000	-3,094	-1,293	-3,652	0,303	-3,710	0,467
77,080	7,675	4,711	0,000	0,000	-3,059	-1,699	-3,768	0,327	-3,826	0,493
77,490	7,402	4,470	0,000	0,000	-2,988	-2,232	-3,865	0,272	-3,923	0,438
77,900	7,128	4,230	0,000	0,000	-2,875	-2,911	-3,938	0,127	-3,996	0,292
78,356	7,128	4,230	0,000	0,000	-2,615	-3,631	-3,838	-0,137	-3,891	0,013
78,811	7,128	4,230	0,000	0,000	-2,359	-4,341	-3,741	-0,390	-3,789	-0,255
79,267	7,128	4,230	0,000	0,000	-2,107	-5,039	-3,649	-0,632	-3,691	-0,512
79,722	7,128	4,230	0,000	0,000	-1,858	-5,727	-3,560	-0,863	-3,597	-0,758
80,178	7,128	4,230	0,000	0,000	-1,613	-6,403	-3,475	-1,082	-3,506	-0,994
80,633	7,128	4,230	0,000	0,000	-1,372	-7,070	-3,394	-1,291	-3,419	-1,220
81,089	7,128	4,230	0,000	0,000	-1,135	-7,726	-3,317	-1,489	-3,336	-1,435
81,544	7,128	4,230	0,000	0,000	-0,901	-8,372	-3,244	-1,677	-3,256	-1,640
82,000	7,128	4,230	0,000	0,000	-0,670	-9,007	-3,174	-1,854	-3,180	-1,835
82,492	7,128	4,230	0,000	0,000	0,000	0,000	-3,112	-2,056	-3,112	-2,057
82,984	7,128	4,230	0,000	0,000	0,000	0,000	-3,052	-2,254	-3,046	-2,273
83,476	7,128	4,230	0,000	0,000	0,000	0,000	-2,994	-2,446	-2,981	-2,485
83,968	7,128	4,230	0,000	0,000	0,000	0,000	-2,938	-2,633	-2,918	-2,690
84,460	7,128	4,230	0,000	0,000	0,000	0,000	-2,884	-2,815	-2,858	-2,889
84,952	7,128	4,230	0,000	0,000	0,000	0,000	-2,832	-2,991	-2,800	-3,083
85,444	7,128	4,230	0,000	0,000	0,000	0,000	-2,781	-3,162	-2,744	-3,270
85,936	7,128	4,230	0,000	0,000	0,000	0,000	-2,733	-3,326	-2,690	-3,450
86,428	7,128	4,230	0,000	0,000	0,000	0,000	-2,687	-3,484	-2,638	-3,624
86,920	7,128	4,230	0,000	0,000	0,000	0,000	-2,644	-3,635	-2,589	-3,791
87,412	7,128	4,230	0,000	0,000	0,000	0,000	-2,602	-3,780	-2,543	-3,951
87,904	7,128	4,230	0,000	0,000	0,000	0,000	-2,563	-3,918	-2,499	-4,103
88,396	7,128	4,230	0,000	0,000	0,000	0,000	-2,527	-4,049	-2,457	-4,248
88,888	7,128	4,230	0,000	0,000	0,000	0,000	-2,493	-4,173	-2,419	-4,385
89,380	7,128	4,230	0,000	0,000	0,000	0,000	-2,462	-4,289	-2,383	-4,514
89,872	7,128	4,230	0,000	0,000	0,000	0,000	-2,433	-4,397	-2,350	-4,635
90,364	7,128	4,230	0,000	0,000	0,000	0,000	-2,407	-4,498	-2,320	-4,748
90,856	7,128	4,230	0,000	0,000	0,000	0,000	-2,384	-4,590	-2,293	-4,852
91,348	7,128	4,230	0,000	0,000	0,000	0,000	-2,364	-4,674	-2,269	-4,947
91,840	7,128	4,230	0,000	0,000	0,000	0,000	-2,347	-4,750	-2,248	-5,034

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
92,332	7,128	4,230	0,000	0,000	0,000	0,000	-2,333	-4,817	-2,230	-5,111
92,824	7,128	4,230	0,000	0,000	0,000	0,000	-2,322	-4,874	-2,216	-5,178
93,316	7,128	4,230	0,000	0,000	0,000	0,000	-2,315	-4,923	-2,205	-5,236
93,808	7,128	4,230	0,000	0,000	0,000	0,000	-2,310	-4,962	-2,198	-5,284
94,300	7,128	4,230	0,000	0,000	0,000	0,000	-2,309	-4,992	-2,194	-5,323
94,797	7,128	4,230	0,000	0,000	0,000	0,000	-2,312	-5,005	-2,193	-5,344
95,294	7,128	4,230	0,000	0,000	0,000	0,000	-2,319	-5,007	-2,197	-5,355
95,791	7,128	4,230	0,000	0,000	0,000	0,000	-2,329	-4,998	-2,204	-5,355
96,288	7,128	4,230	0,000	0,000	0,000	0,000	-2,343	-4,979	-2,215	-5,345
96,785	7,128	4,230	0,000	0,000	0,000	0,000	-2,361	-4,950	-2,230	-5,323
97,282	7,128	4,230	0,000	0,000	0,000	0,000	-2,383	-4,909	-2,249	-5,290
97,779	7,128	4,230	0,000	0,000	0,000	0,000	-2,408	-4,858	-2,272	-5,245
98,276	7,128	4,230	0,000	0,000	0,000	0,000	-2,437	-4,795	-2,299	-5,189
98,773	7,128	4,230	0,000	0,000	0,000	0,000	-2,471	-4,721	-2,330	-5,121
99,270	7,128	4,230	0,000	0,000	0,000	0,000	-2,508	-4,635	-2,366	-5,042
99,767	7,128	4,230	0,000	0,000	0,000	0,000	-2,549	-4,538	-2,405	-4,950
100,264	7,128	4,230	0,000	0,000	0,000	0,000	-2,595	-4,429	-2,449	-4,846
100,761	7,128	4,230	0,000	0,000	0,000	0,000	-2,645	-4,308	-2,497	-4,730
101,258	7,128	4,230	0,000	0,000	0,000	0,000	-2,699	-4,174	-2,550	-4,601
101,755	7,128	4,230	0,000	0,000	0,000	0,000	-2,757	-4,028	-2,606	-4,459
102,252	7,128	4,230	0,000	0,000	0,000	0,000	-2,820	-3,870	-2,668	-4,304
102,748	7,128	4,230	0,000	0,000	0,000	0,000	-2,887	-3,699	-2,734	-4,137
103,245	7,128	4,230	0,000	0,000	0,000	0,000	-2,959	-3,515	-2,805	-3,956
103,742	7,128	4,230	0,000	0,000	0,000	0,000	-3,035	-3,318	-2,880	-3,762
104,239	7,128	4,230	0,000	0,000	0,000	0,000	-3,116	-3,108	-2,960	-3,554
104,736	7,128	4,230	0,000	0,000	0,000	0,000	-3,202	-2,885	-3,045	-3,332
105,233	7,128	4,230	0,000	0,000	0,000	0,000	-3,292	-2,648	-3,135	-3,097
105,730	7,128	4,230	0,000	0,000	0,000	0,000	-3,387	-2,397	-3,230	-2,847
106,227	7,128	4,230	0,000	0,000	0,000	0,000	-3,487	-2,133	-3,329	-2,583
106,724	7,128	4,230	0,000	0,000	0,000	0,000	-3,592	-1,854	-3,434	-2,305
107,221	7,128	4,230	0,000	0,000	0,000	0,000	-3,702	-1,561	-3,544	-2,013
107,718	7,128	4,230	0,000	0,000	0,000	0,000	-3,816	-1,254	-3,659	-1,705
108,215	7,128	4,230	0,000	0,000	0,000	0,000	-3,936	-0,933	-3,779	-1,383
108,712	7,128	4,230	0,000	0,000	0,000	0,000	-4,061	-0,597	-3,904	-1,045
109,209	7,128	4,230	0,000	0,000	0,000	0,000	-4,192	-0,245	-4,035	-0,693
109,706	7,128	4,230	0,000	0,000	0,000	0,000	-4,327	0,121	-4,171	-0,325

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
110,203	7,128	4,230	0,000	0,000	0,000	0,000	-4,468	0,502	-4,313	0,059
110,700	7,128	4,230	0,000	0,000	0,000	0,000	-4,614	0,899	-4,460	0,458
111,110	7,402	4,470	0,000	0,000	0,000	0,000	-4,496	1,071	-4,338	0,620
111,520	7,675	4,711	0,000	0,000	0,000	0,000	-4,351	1,132	-4,190	0,671
111,930	7,949	4,952	0,000	0,000	0,000	0,000	-4,185	1,096	-4,020	0,626
112,340	8,223	5,192	0,000	0,000	0,000	0,000	-3,999	0,977	-3,831	0,497
112,750	8,496	5,433	0,000	0,000	0,000	0,000	-3,797	0,785	-3,626	0,296
113,160	8,770	5,674	0,000	0,000	0,000	0,000	-3,581	0,528	-3,406	0,030
113,570	9,044	5,914	0,000	0,000	0,000	0,000	-3,352	0,215	-3,175	-0,293
113,980	9,317	6,155	0,000	0,000	0,000	0,000	-3,113	-0,150	-2,932	-0,666
114,390	9,591	6,396	0,000	0,000	0,000	0,000	-2,864	-0,560	-2,680	-1,085
114,800	9,865	6,636	0,000	0,000	0,000	0,000	-2,606	-1,011	-2,420	-1,544
115,210	9,591	6,396	0,000	0,000	0,000	0,000	-2,738	-0,834	-2,633	-1,133
115,620	9,317	6,155	0,000	0,000	0,000	0,000	-2,851	-0,720	-2,835	-0,765
116,030	9,044	5,914	0,000	0,000	0,000	0,000	-2,946	-0,672	-3,026	-0,443
116,440	8,770	5,674	0,000	0,000	0,000	0,000	-3,020	-0,697	-3,204	-0,171
116,850	8,496	5,433	0,000	0,000	0,000	0,000	-3,071	-0,803	-3,369	0,048
117,260	8,223	5,192	0,000	0,000	0,000	0,000	-3,096	-0,998	-3,519	0,209
117,670	7,949	4,952	0,000	0,000	0,000	0,000	-3,094	-1,293	-3,653	0,305
118,080	7,675	4,711	0,000	0,000	0,000	0,000	-3,059	-1,699	-3,769	0,330
118,490	7,402	4,470	0,000	0,000	0,000	0,000	-2,988	-2,232	-3,866	0,275
118,900	7,128	4,230	0,000	0,000	0,000	0,000	-2,875	-2,911	-3,939	0,130
119,356	7,128	4,230	0,000	0,000	0,000	0,000	-2,615	-3,631	-3,839	-0,135
119,811	7,128	4,230	0,000	0,000	0,000	0,000	-2,359	-4,341	-3,742	-0,388
120,267	7,128	4,230	0,000	0,000	0,000	0,000	-2,107	-5,039	-3,650	-0,629
120,722	7,128	4,230	0,000	0,000	0,000	0,000	-1,858	-5,727	-3,561	-0,860
121,178	7,128	4,230	0,000	0,000	0,000	0,000	-1,613	-6,403	-3,476	-1,079
121,633	7,128	4,230	0,000	0,000	0,000	0,000	-1,372	-7,070	-3,395	-1,288
122,089	7,128	4,230	0,000	0,000	0,000	0,000	-1,135	-7,726	-3,318	-1,486
122,544	7,128	4,230	0,000	0,000	0,000	0,000	-0,901	-8,372	-3,245	-1,674
123,000	7,128	4,230	0,000	0,000	0,000	0,000	-0,670	-9,007	-3,175	-1,851
123,492	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,113	-2,054
123,984	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,053	-2,251
124,476	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,995	-2,444
124,968	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,939	-2,631
125,460	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,885	-2,813

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
125,952	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,832	-2,989
126,444	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,782	-3,160
126,936	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,734	-3,324
127,428	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,688	-3,482
127,920	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,644	-3,633
128,412	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,603	-3,778
128,904	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,564	-3,916
129,396	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,528	-4,047
129,888	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,494	-4,171
130,380	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,462	-4,287
130,872	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,434	-4,396
131,364	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,408	-4,496
131,856	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,385	-4,589
132,348	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,365	-4,673
132,840	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,348	-4,748
133,332	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,334	-4,815
133,824	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,323	-4,873
134,316	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,315	-4,922
134,808	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,311	-4,961
135,300	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,310	-4,991
135,797	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,313	-5,003
136,294	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,319	-5,005
136,791	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,330	-4,997
137,288	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,344	-4,978
137,785	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,361	-4,949
138,282	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,383	-4,908
138,779	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,408	-4,857
139,276	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,438	-4,794
139,773	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,471	-4,720
140,270	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,508	-4,635
140,767	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,550	-4,537
141,264	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,595	-4,428
141,761	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,645	-4,307
142,258	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,699	-4,174
142,755	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,757	-4,028
143,252	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,820	-3,870

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
143,748	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,887	-3,699
144,245	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,959	-3,515
144,742	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,035	-3,318
145,239	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,116	-3,108
145,736	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,202	-2,884
146,233	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,292	-2,647
146,730	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,387	-2,397
147,227	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,487	-2,132
147,724	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,592	-1,854
148,221	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,702	-1,561
148,718	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,817	-1,254
149,215	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,936	-0,933
149,712	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-4,062	-0,596
150,209	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-4,192	-0,245
150,706	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-4,327	0,121
151,203	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-4,468	0,502
151,700	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-4,614	0,899
152,110	7,402	4,470	0,000	0,000	0,000	0,000	0,000	0,000	-4,496	1,071
152,520	7,675	4,711	0,000	0,000	0,000	0,000	0,000	0,000	-4,351	1,132
152,930	7,949	4,952	0,000	0,000	0,000	0,000	0,000	0,000	-4,185	1,096
153,340	8,223	5,192	0,000	0,000	0,000	0,000	0,000	0,000	-3,999	0,977
153,750	8,496	5,433	0,000	0,000	0,000	0,000	0,000	0,000	-3,797	0,785
154,160	8,770	5,674	0,000	0,000	0,000	0,000	0,000	0,000	-3,581	0,528
154,570	9,044	5,914	0,000	0,000	0,000	0,000	0,000	0,000	-3,352	0,215
154,980	9,317	6,155	0,000	0,000	0,000	0,000	0,000	0,000	-3,113	-0,150
155,390	9,591	6,396	0,000	0,000	0,000	0,000	0,000	0,000	-2,864	-0,560
155,800	9,865	6,636	0,000	0,000	0,000	0,000	0,000	0,000	-2,606	-1,011
156,210	9,591	6,396	0,000	0,000	0,000	0,000	0,000	0,000	-2,738	-0,834
156,620	9,317	6,155	0,000	0,000	0,000	0,000	0,000	0,000	-2,851	-0,720
157,030	9,044	5,914	0,000	0,000	0,000	0,000	0,000	0,000	-2,946	-0,672
157,440	8,770	5,674	0,000	0,000	0,000	0,000	0,000	0,000	-3,020	-0,697
157,850	8,496	5,433	0,000	0,000	0,000	0,000	0,000	0,000	-3,071	-0,803
158,260	8,223	5,192	0,000	0,000	0,000	0,000	0,000	0,000	-3,096	-0,998
158,670	7,949	4,952	0,000	0,000	0,000	0,000	0,000	0,000	-3,094	-1,293
159,080	7,675	4,711	0,000	0,000	0,000	0,000	0,000	0,000	-3,059	-1,699
159,490	7,402	4,470	0,000	0,000	0,000	0,000	0,000	0,000	-2,988	-2,232

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,1}$ [MPa]	$\sigma_{inf,1}$ [MPa]	$\sigma_{sup,2}$ [MPa]	$\sigma_{inf,2}$ [MPa]	$\sigma_{sup,3}$ [MPa]	$\sigma_{inf,3}$ [MPa]	$\sigma_{sup,4}$ [MPa]	$\sigma_{inf,4}$ [MPa]
159,900	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,875	-2,911
160,356	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,615	-3,631
160,811	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,359	-4,341
161,267	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,107	-5,039
161,722	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,858	-5,727
162,178	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,613	-6,403
162,633	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,372	-7,070
163,089	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,135	-7,726
163,544	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,901	-8,372
164,000	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,670	-9,007

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x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
0,000	13,219	7,222	-1,499	-1,499	-1,499	-1,499	-1,499	-1,499	-1,499	-1,499
0,410	12,665	6,950	-1,490	-1,797	-1,490	-1,797	-1,490	-1,797	-1,490	-1,797
0,820	12,111	6,678	-1,479	-2,124	-1,479	-2,124	-1,479	-2,124	-1,479	-2,124
1,230	11,558	6,406	-1,467	-2,483	-1,467	-2,483	-1,467	-2,483	-1,467	-2,483
1,640	11,004	6,134	-1,454	-2,876	-1,454	-2,876	-1,454	-2,876	-1,454	-2,876
2,050	10,450	5,862	-1,442	-3,306	-1,442	-3,306	-1,442	-3,306	-1,442	-3,306
2,460	9,896	5,590	-1,430	-3,777	-1,430	-3,777	-1,430	-3,777	-1,430	-3,777
2,870	9,343	5,318	-1,421	-4,293	-1,421	-4,294	-1,421	-4,294	-1,421	-4,294
3,280	8,789	5,046	-1,416	-4,861	-1,416	-4,861	-1,416	-4,861	-1,416	-4,861
3,690	8,235	4,774	-1,417	-5,486	-1,416	-5,486	-1,416	-5,486	-1,416	-5,486
4,100	7,682	4,502	-1,426	-6,177	-1,425	-6,178	-1,425	-6,178	-1,425	-6,178
4,582	7,128	4,230	-1,428	-6,998	-1,428	-6,999	-1,428	-6,999	-1,428	-6,999
5,065	7,128	4,230	-1,312	-7,363	-1,311	-7,364	-1,311	-7,363	-1,311	-7,363
5,547	7,128	4,230	-1,204	-7,703	-1,203	-7,704	-1,204	-7,704	-1,204	-7,704
6,029	7,128	4,230	-1,105	-8,018	-1,104	-8,019	-1,104	-8,019	-1,104	-8,019
6,512	7,128	4,230	-1,014	-8,309	-1,014	-8,310	-1,014	-8,310	-1,014	-8,310
6,994	7,128	4,230	-0,933	-8,574	-0,932	-8,575	-0,932	-8,574	-0,932	-8,574
7,476	7,128	4,230	-0,860	-8,813	-0,860	-8,814	-0,860	-8,814	-0,860	-8,813
7,959	7,128	4,230	-0,797	-9,025	-0,797	-9,027	-0,797	-9,026	-0,797	-9,026
8,441	7,128	4,230	-0,743	-9,211	-0,743	-9,213	-0,743	-9,212	-0,743	-9,212
8,924	7,128	4,230	-0,699	-9,370	-0,698	-9,372	-0,698	-9,371	-0,698	-9,371

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
9,406	7,128	4,230	-0,664	-9,501	-0,664	-9,503	-0,664	-9,502	-0,664	-9,502
9,888	7,128	4,230	-0,639	-9,605	-0,639	-9,606	-0,639	-9,606	-0,639	-9,606
10,371	7,128	4,230	-0,624	-9,680	-0,623	-9,681	-0,624	-9,681	-0,624	-9,681
10,853	7,128	4,230	-0,619	-9,726	-0,618	-9,728	-0,619	-9,727	-0,619	-9,727
11,335	7,128	4,230	-0,624	-9,743	-0,624	-9,745	-0,624	-9,745	-0,624	-9,745
11,818	7,128	4,230	-0,640	-9,731	-0,639	-9,733	-0,639	-9,732	-0,639	-9,732
12,300	7,128	4,230	-0,666	-9,689	-0,665	-9,691	-0,665	-9,690	-0,665	-9,690
12,797	7,128	4,230	-0,702	-9,607	-0,701	-9,609	-0,701	-9,608	-0,701	-9,608
13,294	7,128	4,230	-0,741	-9,515	-0,741	-9,517	-0,741	-9,516	-0,741	-9,516
13,791	7,128	4,230	-0,785	-9,411	-0,784	-9,413	-0,784	-9,413	-0,785	-9,412
14,288	7,128	4,230	-0,832	-9,296	-0,832	-9,298	-0,832	-9,298	-0,832	-9,298
14,785	7,128	4,230	-0,884	-9,171	-0,883	-9,173	-0,883	-9,172	-0,883	-9,172
15,282	7,128	4,230	-0,939	-9,033	-0,939	-9,035	-0,939	-9,035	-0,939	-9,035
15,779	7,128	4,230	-0,999	-8,884	-0,998	-8,886	-0,998	-8,886	-0,998	-8,886
16,276	7,128	4,230	-1,063	-8,723	-1,062	-8,726	-1,062	-8,725	-1,062	-8,725
16,773	7,128	4,230	-1,130	-8,551	-1,130	-8,553	-1,130	-8,552	-1,130	-8,552
17,270	7,128	4,230	-1,202	-8,366	-1,202	-8,368	-1,202	-8,367	-1,202	-8,367
17,767	7,128	4,230	-1,279	-8,169	-1,278	-8,171	-1,278	-8,170	-1,278	-8,170
18,264	7,128	4,230	-1,360	-7,959	-1,359	-7,961	-1,359	-7,961	-1,359	-7,960
18,761	7,128	4,230	-1,445	-7,737	-1,444	-7,739	-1,444	-7,738	-1,444	-7,738
19,258	7,128	4,230	-1,534	-7,502	-1,534	-7,504	-1,534	-7,503	-1,534	-7,503
19,755	7,128	4,230	-1,629	-7,254	-1,628	-7,256	-1,628	-7,255	-1,628	-7,255
20,252	7,128	4,230	-1,727	-6,992	-1,726	-6,995	-1,727	-6,994	-1,727	-6,994
20,748	7,128	4,230	-1,831	-6,718	-1,830	-6,720	-1,830	-6,720	-1,830	-6,720
21,245	7,128	4,230	-1,939	-6,430	-1,938	-6,433	-1,938	-6,432	-1,938	-6,432
21,742	7,128	4,230	-2,052	-6,129	-2,051	-6,131	-2,051	-6,130	-2,051	-6,130
22,239	7,128	4,230	-2,169	-5,813	-2,169	-5,816	-2,169	-5,815	-2,169	-5,815
22,736	7,128	4,230	-2,292	-5,484	-2,291	-5,487	-2,291	-5,486	-2,291	-5,486
23,233	7,128	4,230	-2,420	-5,141	-2,419	-5,143	-2,419	-5,143	-2,419	-5,142
23,730	7,128	4,230	-2,552	-4,783	-2,551	-4,786	-2,551	-4,785	-2,552	-4,785
24,227	7,128	4,230	-2,690	-4,411	-2,689	-4,414	-2,689	-4,413	-2,689	-4,413
24,724	7,128	4,230	-2,832	-4,025	-2,831	-4,027	-2,832	-4,026	-2,832	-4,026
25,221	7,128	4,230	-2,980	-3,623	-2,979	-3,625	-2,980	-3,625	-2,980	-3,625
25,718	7,128	4,230	-3,133	-3,207	-3,132	-3,209	-3,133	-3,208	-3,133	-3,208
26,215	7,128	4,230	-3,292	-2,775	-3,291	-2,778	-3,291	-2,777	-3,291	-2,777
26,712	7,128	4,230	-3,455	-2,328	-3,455	-2,331	-3,455	-2,330	-3,455	-2,330

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
27,209	7,128	4,230	-3,625	-1,866	-3,624	-1,869	-3,624	-1,868	-3,624	-1,868
27,706	7,128	4,230	-3,799	-1,388	-3,798	-1,391	-3,798	-1,390	-3,799	-1,390
28,203	7,128	4,230	-3,979	-0,895	-3,978	-0,897	-3,979	-0,896	-3,979	-0,896
28,700	7,128	4,230	-4,165	-0,385	-4,164	-0,388	-4,164	-0,387	-4,164	-0,387
29,110	7,402	4,470	-4,093	-0,081	-4,092	-0,083	-4,092	-0,083	-4,092	-0,082
29,520	7,675	4,711	-3,989	0,097	-3,988	0,094	-3,989	0,095	-3,989	0,095
29,930	7,949	4,952	-3,859	0,166	-3,858	0,163	-3,858	0,164	-3,859	0,164
30,340	8,223	5,192	-3,706	0,141	-3,705	0,138	-3,705	0,139	-3,706	0,139
30,750	8,496	5,433	-3,534	0,033	-3,533	0,030	-3,533	0,031	-3,533	0,031
31,160	8,770	5,674	-3,344	-0,147	-3,343	-0,150	-3,343	-0,149	-3,343	-0,149
31,570	9,044	5,914	-3,140	-0,392	-3,139	-0,395	-3,139	-0,394	-3,139	-0,394
31,980	9,317	6,155	-2,922	-0,694	-2,921	-0,696	-2,922	-0,696	-2,922	-0,695
32,390	9,591	6,396	-2,694	-1,046	-2,693	-1,049	-2,693	-1,049	-2,693	-1,048
32,800	9,865	6,636	-2,454	-1,445	-2,453	-1,448	-2,454	-1,447	-2,454	-1,447
33,210	9,591	6,396	-2,668	-1,032	-2,667	-1,035	-2,668	-1,035	-2,668	-1,034
33,620	9,317	6,155	-2,871	-0,663	-2,870	-0,666	-2,870	-0,665	-2,870	-0,665
34,030	9,044	5,914	-3,062	-0,339	-3,061	-0,342	-3,061	-0,341	-3,062	-0,341
34,440	8,770	5,674	-3,241	-0,065	-3,240	-0,069	-3,240	-0,068	-3,240	-0,068
34,850	8,496	5,433	-3,406	0,154	-3,405	0,151	-3,405	0,152	-3,405	0,152
35,260	8,223	5,192	-3,556	0,315	-3,555	0,312	-3,555	0,313	-3,555	0,313
35,670	7,949	4,952	-3,690	0,411	-3,689	0,407	-3,689	0,408	-3,689	0,409
36,080	7,675	4,711	-3,806	0,435	-3,805	0,431	-3,805	0,432	-3,805	0,432
36,490	7,402	4,470	-3,902	0,378	-3,901	0,375	-3,901	0,376	-3,901	0,376
36,900	7,128	4,230	-3,975	0,231	-3,973	0,227	-3,974	0,228	-3,974	0,228
37,356	7,128	4,230	-3,870	-0,046	-3,869	-0,049	-3,869	-0,048	-3,869	-0,048
37,811	7,128	4,230	-3,769	-0,311	-3,768	-0,314	-3,769	-0,313	-3,769	-0,313
38,267	7,128	4,230	-3,672	-0,565	-3,672	-0,567	-3,672	-0,567	-3,672	-0,567
38,722	7,128	4,230	-3,579	-0,808	-3,579	-0,810	-3,579	-0,810	-3,579	-0,810
39,178	7,128	4,230	-3,490	-1,041	-3,489	-1,043	-3,489	-1,042	-3,489	-1,042
39,633	7,128	4,230	-3,404	-1,263	-3,404	-1,265	-3,404	-1,264	-3,404	-1,264
40,089	7,128	4,230	-3,322	-1,475	-3,322	-1,476	-3,322	-1,476	-3,322	-1,476
40,544	7,128	4,230	-3,244	-1,676	-3,243	-1,677	-3,243	-1,677	-3,243	-1,677
41,000	7,128	4,230	-3,169	-1,868	-3,169	-1,868	-3,169	-1,868	-3,169	-1,868
41,492	7,128	4,230	-3,102	-2,085	-3,102	-2,085	-3,102	-2,085	-3,102	-2,085
41,984	7,128	4,230	-3,037	-2,297	-3,037	-2,297	-3,037	-2,297	-3,037	-2,297
42,476	7,128	4,230	-2,974	-2,504	-2,974	-2,503	-2,974	-2,503	-2,974	-2,504

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
42,968	7,128	4,230	-2,913	-2,705	-2,914	-2,704	-2,913	-2,704	-2,913	-2,704
43,460	7,128	4,230	-2,854	-2,900	-2,855	-2,899	-2,855	-2,899	-2,854	-2,899
43,952	7,128	4,230	-2,797	-3,090	-2,798	-3,088	-2,798	-3,089	-2,798	-3,089
44,444	7,128	4,230	-2,743	-3,273	-2,743	-3,271	-2,743	-3,271	-2,743	-3,271
44,936	7,128	4,230	-2,690	-3,449	-2,691	-3,447	-2,691	-3,448	-2,691	-3,448
45,428	7,128	4,230	-2,640	-3,620	-2,641	-3,617	-2,641	-3,618	-2,641	-3,618
45,920	7,128	4,230	-2,592	-3,783	-2,593	-3,780	-2,593	-3,781	-2,593	-3,781
46,412	7,128	4,230	-2,547	-3,939	-2,548	-3,936	-2,548	-3,937	-2,548	-3,937
46,904	7,128	4,230	-2,504	-4,088	-2,505	-4,084	-2,505	-4,085	-2,505	-4,086
47,396	7,128	4,230	-2,464	-4,229	-2,465	-4,226	-2,465	-4,227	-2,465	-4,227
47,888	7,128	4,230	-2,426	-4,363	-2,428	-4,359	-2,427	-4,360	-2,427	-4,361
48,380	7,128	4,230	-2,392	-4,489	-2,393	-4,485	-2,393	-4,486	-2,393	-4,486
48,872	7,128	4,230	-2,360	-4,607	-2,361	-4,603	-2,361	-4,604	-2,361	-4,604
49,364	7,128	4,230	-2,331	-4,717	-2,332	-4,712	-2,332	-4,713	-2,332	-4,714
49,856	7,128	4,230	-2,305	-4,818	-2,306	-4,813	-2,306	-4,814	-2,306	-4,815
50,348	7,128	4,230	-2,282	-4,910	-2,284	-4,905	-2,283	-4,907	-2,283	-4,907
50,840	7,128	4,230	-2,262	-4,994	-2,264	-4,989	-2,263	-4,990	-2,263	-4,990
51,332	7,128	4,230	-2,245	-5,068	-2,247	-5,063	-2,247	-5,064	-2,246	-5,065
51,824	7,128	4,230	-2,232	-5,134	-2,234	-5,128	-2,233	-5,129	-2,233	-5,130
52,316	7,128	4,230	-2,222	-5,189	-2,224	-5,183	-2,223	-5,185	-2,223	-5,185
52,808	7,128	4,230	-2,215	-5,235	-2,217	-5,229	-2,216	-5,231	-2,216	-5,231
53,300	7,128	4,230	-2,212	-5,271	-2,214	-5,265	-2,213	-5,267	-2,213	-5,267
53,797	7,128	4,230	-2,212	-5,291	-2,214	-5,284	-2,214	-5,286	-2,214	-5,286
54,294	7,128	4,230	-2,217	-5,299	-2,219	-5,293	-2,218	-5,294	-2,218	-5,295
54,791	7,128	4,230	-2,225	-5,297	-2,227	-5,291	-2,226	-5,292	-2,226	-5,293
55,288	7,128	4,230	-2,236	-5,285	-2,239	-5,278	-2,238	-5,280	-2,238	-5,280
55,785	7,128	4,230	-2,252	-5,261	-2,255	-5,254	-2,254	-5,256	-2,254	-5,256
56,282	7,128	4,230	-2,272	-5,226	-2,274	-5,219	-2,274	-5,221	-2,273	-5,221
56,779	7,128	4,230	-2,295	-5,180	-2,298	-5,172	-2,297	-5,174	-2,297	-5,175
57,276	7,128	4,230	-2,323	-5,122	-2,325	-5,114	-2,325	-5,116	-2,325	-5,117
57,773	7,128	4,230	-2,355	-5,053	-2,357	-5,045	-2,356	-5,047	-2,356	-5,048
58,270	7,128	4,230	-2,390	-4,971	-2,393	-4,964	-2,392	-4,966	-2,392	-4,966
58,767	7,128	4,230	-2,430	-4,878	-2,433	-4,870	-2,432	-4,872	-2,432	-4,873
59,264	7,128	4,230	-2,475	-4,773	-2,477	-4,765	-2,477	-4,767	-2,476	-4,768
59,761	7,128	4,230	-2,523	-4,655	-2,526	-4,647	-2,525	-4,649	-2,525	-4,650
60,258	7,128	4,230	-2,576	-4,525	-2,579	-4,517	-2,578	-4,519	-2,578	-4,520

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
60,755	7,128	4,230	-2,633	-4,382	-2,636	-4,374	-2,636	-4,376	-2,635	-4,377
61,252	7,128	4,230	-2,695	-4,226	-2,698	-4,218	-2,697	-4,220	-2,697	-4,221
61,748	7,128	4,230	-2,762	-4,058	-2,765	-4,049	-2,764	-4,052	-2,764	-4,052
62,245	7,128	4,230	-2,833	-3,876	-2,836	-3,867	-2,835	-3,870	-2,835	-3,871
62,742	7,128	4,230	-2,908	-3,681	-2,911	-3,672	-2,911	-3,675	-2,910	-3,676
63,239	7,128	4,230	-2,989	-3,472	-2,992	-3,464	-2,991	-3,466	-2,991	-3,467
63,736	7,128	4,230	-3,074	-3,250	-3,077	-3,241	-3,076	-3,244	-3,076	-3,245
64,233	7,128	4,230	-3,164	-3,014	-3,167	-3,005	-3,166	-3,008	-3,166	-3,009
64,730	7,128	4,230	-3,259	-2,764	-3,262	-2,755	-3,261	-2,757	-3,261	-2,759
65,227	7,128	4,230	-3,359	-2,500	-3,362	-2,491	-3,361	-2,493	-3,360	-2,494
65,724	7,128	4,230	-3,463	-2,221	-3,466	-2,212	-3,466	-2,215	-3,465	-2,216
66,221	7,128	4,230	-3,573	-1,928	-3,576	-1,919	-3,576	-1,922	-3,575	-1,923
66,718	7,128	4,230	-3,688	-1,621	-3,691	-1,612	-3,691	-1,614	-3,690	-1,615
67,215	7,128	4,230	-3,809	-1,298	-3,812	-1,289	-3,811	-1,292	-3,810	-1,293
67,712	7,128	4,230	-3,934	-0,961	-3,937	-0,952	-3,936	-0,954	-3,936	-0,956
68,209	7,128	4,230	-4,065	-0,608	-4,068	-0,600	-4,067	-0,602	-4,066	-0,603
68,706	7,128	4,230	-4,201	-0,240	-4,204	-0,232	-4,203	-0,234	-4,203	-0,235
69,203	7,128	4,230	-4,342	0,143	-4,345	0,152	-4,345	0,149	-4,344	0,148
69,700	7,128	4,230	-4,489	0,542	-4,492	0,550	-4,492	0,548	-4,491	0,547
70,110	7,402	4,470	-4,368	0,706	-4,371	0,715	-4,371	0,713	-4,370	0,711
70,520	7,675	4,711	-4,221	0,759	-4,224	0,768	-4,223	0,766	-4,223	0,764
70,930	7,949	4,952	-4,052	0,716	-4,055	0,725	-4,054	0,723	-4,053	0,721
71,340	8,223	5,192	-3,863	0,589	-3,866	0,599	-3,866	0,596	-3,865	0,595
71,750	8,496	5,433	-3,659	0,390	-3,662	0,399	-3,661	0,397	-3,661	0,396
72,160	8,770	5,674	-3,440	0,126	-3,443	0,136	-3,442	0,133	-3,442	0,132
72,570	9,044	5,914	-3,209	-0,195	-3,212	-0,185	-3,211	-0,187	-3,211	-0,188
72,980	9,317	6,155	-2,967	-0,566	-2,971	-0,556	-2,970	-0,559	-2,969	-0,560
73,390	9,591	6,396	-2,716	-0,983	-2,719	-0,973	-2,718	-0,976	-2,718	-0,976
73,800	9,865	6,636	-2,456	-1,441	-2,460	-1,431	-2,459	-1,433	-2,458	-1,434
74,210	9,591	6,396	-2,670	-1,027	-2,674	-1,017	-2,673	-1,019	-2,673	-1,020
74,620	9,317	6,155	-2,873	-0,657	-2,877	-0,646	-2,876	-0,649	-2,876	-0,649
75,030	9,044	5,914	-3,065	-0,332	-3,069	-0,321	-3,068	-0,324	-3,067	-0,325
75,440	8,770	5,674	-3,244	-0,057	-3,248	-0,046	-3,247	-0,049	-3,246	-0,050
75,850	8,496	5,433	-3,409	0,163	-3,413	0,175	-3,412	0,172	-3,412	0,171
76,260	8,223	5,192	-3,560	0,325	-3,564	0,337	-3,563	0,334	-3,562	0,333
76,670	7,949	4,952	-3,694	0,423	-3,698	0,434	-3,697	0,431	-3,697	0,431

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
77,080	7,675	4,711	-3,811	0,448	-3,815	0,460	-3,814	0,457	-3,814	0,456
77,490	7,402	4,470	-3,907	0,394	-3,911	0,405	-3,910	0,402	-3,910	0,402
77,900	7,128	4,230	-3,981	0,248	-3,985	0,260	-3,984	0,257	-3,984	0,256
78,356	7,128	4,230	-3,876	-0,027	-3,880	-0,016	-3,879	-0,019	-3,879	-0,020
78,811	7,128	4,230	-3,776	-0,291	-3,780	-0,281	-3,779	-0,284	-3,779	-0,284
79,267	7,128	4,230	-3,680	-0,544	-3,683	-0,536	-3,682	-0,538	-3,682	-0,538
79,722	7,128	4,230	-3,587	-0,786	-3,590	-0,779	-3,589	-0,781	-3,589	-0,781
80,178	7,128	4,230	-3,498	-1,018	-3,500	-1,012	-3,500	-1,013	-3,500	-1,013
80,633	7,128	4,230	-3,413	-1,239	-3,414	-1,234	-3,414	-1,235	-3,414	-1,235
81,089	7,128	4,230	-3,331	-1,449	-3,332	-1,446	-3,332	-1,447	-3,332	-1,447
81,544	7,128	4,230	-3,253	-1,650	-3,254	-1,647	-3,254	-1,648	-3,254	-1,648
82,000	7,128	4,230	-3,178	-1,840	-3,179	-1,839	-3,179	-1,839	-3,179	-1,839
82,492	7,128	4,230	-3,112	-2,057	-3,112	-2,057	-3,112	-2,057	-3,112	-2,057
82,984	7,128	4,230	-3,047	-2,268	-3,047	-2,270	-3,047	-2,269	-3,047	-2,269
83,476	7,128	4,230	-2,985	-2,474	-2,984	-2,477	-2,984	-2,476	-2,984	-2,476
83,968	7,128	4,230	-2,924	-2,675	-2,922	-2,679	-2,923	-2,678	-2,923	-2,678
84,460	7,128	4,230	-2,865	-2,870	-2,863	-2,875	-2,864	-2,873	-2,864	-2,873
84,952	7,128	4,230	-2,808	-3,058	-2,806	-3,065	-2,807	-3,063	-2,807	-3,063
85,444	7,128	4,230	-2,754	-3,241	-2,751	-3,249	-2,752	-3,247	-2,752	-3,246
85,936	7,128	4,230	-2,701	-3,417	-2,698	-3,426	-2,699	-3,424	-2,699	-3,423
86,428	7,128	4,230	-2,651	-3,587	-2,648	-3,597	-2,649	-3,594	-2,649	-3,594
86,920	7,128	4,230	-2,604	-3,749	-2,600	-3,761	-2,601	-3,758	-2,601	-3,757
87,412	7,128	4,230	-2,559	-3,905	-2,554	-3,917	-2,556	-3,914	-2,556	-3,914
87,904	7,128	4,230	-2,516	-4,054	-2,511	-4,067	-2,513	-4,064	-2,513	-4,063
88,396	7,128	4,230	-2,476	-4,195	-2,471	-4,209	-2,472	-4,205	-2,473	-4,205
88,888	7,128	4,230	-2,439	-4,328	-2,433	-4,344	-2,435	-4,340	-2,435	-4,339
89,380	7,128	4,230	-2,404	-4,454	-2,398	-4,470	-2,400	-4,466	-2,400	-4,465
89,872	7,128	4,230	-2,372	-4,572	-2,366	-4,589	-2,368	-4,584	-2,368	-4,583
90,364	7,128	4,230	-2,343	-4,681	-2,337	-4,699	-2,339	-4,694	-2,339	-4,693
90,856	7,128	4,230	-2,317	-4,782	-2,311	-4,801	-2,313	-4,796	-2,313	-4,795
91,348	7,128	4,230	-2,294	-4,874	-2,288	-4,894	-2,289	-4,888	-2,290	-4,887
91,840	7,128	4,230	-2,275	-4,958	-2,267	-4,978	-2,269	-4,972	-2,270	-4,971
92,332	7,128	4,230	-2,258	-5,032	-2,251	-5,053	-2,253	-5,047	-2,253	-5,046
92,824	7,128	4,230	-2,245	-5,097	-2,237	-5,119	-2,239	-5,113	-2,239	-5,111
93,316	7,128	4,230	-2,234	-5,152	-2,227	-5,175	-2,229	-5,169	-2,229	-5,167
93,808	7,128	4,230	-2,228	-5,198	-2,220	-5,221	-2,222	-5,215	-2,222	-5,214

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
94,300	7,128	4,230	-2,225	-5,234	-2,216	-5,258	-2,218	-5,252	-2,219	-5,250
94,797	7,128	4,230	-2,225	-5,253	-2,217	-5,278	-2,219	-5,271	-2,220	-5,269
95,294	7,128	4,230	-2,230	-5,262	-2,221	-5,287	-2,223	-5,280	-2,224	-5,278
95,791	7,128	4,230	-2,238	-5,260	-2,229	-5,285	-2,231	-5,278	-2,232	-5,276
96,288	7,128	4,230	-2,250	-5,247	-2,241	-5,273	-2,243	-5,266	-2,244	-5,264
96,785	7,128	4,230	-2,265	-5,223	-2,256	-5,250	-2,259	-5,242	-2,259	-5,240
97,282	7,128	4,230	-2,285	-5,188	-2,276	-5,215	-2,278	-5,208	-2,279	-5,206
97,779	7,128	4,230	-2,309	-5,141	-2,299	-5,169	-2,302	-5,162	-2,302	-5,159
98,276	7,128	4,230	-2,336	-5,084	-2,326	-5,112	-2,329	-5,104	-2,330	-5,102
98,773	7,128	4,230	-2,368	-5,014	-2,358	-5,043	-2,361	-5,035	-2,361	-5,033
99,270	7,128	4,230	-2,404	-4,933	-2,394	-4,962	-2,396	-4,954	-2,397	-4,952
99,767	7,128	4,230	-2,444	-4,840	-2,433	-4,869	-2,436	-4,861	-2,437	-4,859
100,264	7,128	4,230	-2,488	-4,734	-2,478	-4,764	-2,480	-4,756	-2,481	-4,753
100,761	7,128	4,230	-2,537	-4,617	-2,526	-4,647	-2,529	-4,639	-2,530	-4,636
101,258	7,128	4,230	-2,589	-4,487	-2,579	-4,517	-2,582	-4,509	-2,583	-4,506
101,755	7,128	4,230	-2,647	-4,344	-2,636	-4,375	-2,639	-4,366	-2,640	-4,363
102,252	7,128	4,230	-2,709	-4,188	-2,698	-4,219	-2,701	-4,211	-2,702	-4,208
102,748	7,128	4,230	-2,775	-4,020	-2,764	-4,051	-2,767	-4,043	-2,768	-4,039
103,245	7,128	4,230	-2,846	-3,838	-2,835	-3,870	-2,838	-3,861	-2,839	-3,857
103,742	7,128	4,230	-2,922	-3,643	-2,910	-3,675	-2,913	-3,666	-2,915	-3,663
104,239	7,128	4,230	-3,002	-3,434	-2,991	-3,466	-2,994	-3,458	-2,995	-3,454
104,736	7,128	4,230	-3,087	-3,212	-3,076	-3,244	-3,079	-3,236	-3,080	-3,232
105,233	7,128	4,230	-3,177	-2,977	-3,166	-3,009	-3,169	-3,000	-3,170	-2,996
105,730	7,128	4,230	-3,272	-2,727	-3,260	-2,759	-3,263	-2,750	-3,265	-2,746
106,227	7,128	4,230	-3,371	-2,463	-3,360	-2,495	-3,363	-2,486	-3,365	-2,482
106,724	7,128	4,230	-3,476	-2,185	-3,465	-2,217	-3,468	-2,208	-3,469	-2,204
107,221	7,128	4,230	-3,586	-1,892	-3,575	-1,924	-3,578	-1,915	-3,579	-1,911
107,718	7,128	4,230	-3,701	-1,584	-3,690	-1,617	-3,693	-1,608	-3,694	-1,603
108,215	7,128	4,230	-3,821	-1,262	-3,810	-1,295	-3,813	-1,286	-3,814	-1,281
108,712	7,128	4,230	-3,946	-0,925	-3,935	-0,957	-3,938	-0,949	-3,940	-0,944
109,209	7,128	4,230	-4,077	-0,573	-4,066	-0,605	-4,069	-0,597	-4,071	-0,591
109,706	7,128	4,230	-4,213	-0,206	-4,202	-0,238	-4,205	-0,229	-4,207	-0,224
110,203	7,128	4,230	-4,354	0,177	-4,343	0,146	-4,346	0,154	-4,348	0,159
110,700	7,128	4,230	-4,501	0,576	-4,490	0,544	-4,493	0,553	-4,495	0,558
111,110	7,402	4,470	-4,380	0,741	-4,369	0,709	-4,372	0,717	-4,374	0,722
111,520	7,675	4,711	-4,233	0,794	-4,222	0,761	-4,225	0,770	-4,227	0,775

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
111,930	7,949	4,952	-4,064	0,752	-4,052	0,718	-4,055	0,727	-4,057	0,732
112,340	8,223	5,192	-3,876	0,626	-3,864	0,591	-3,867	0,601	-3,869	0,605
112,750	8,496	5,433	-3,671	0,427	-3,659	0,392	-3,662	0,401	-3,664	0,405
113,160	8,770	5,674	-3,453	0,163	-3,440	0,128	-3,444	0,137	-3,445	0,141
113,570	9,044	5,914	-3,222	-0,157	-3,209	-0,193	-3,213	-0,183	-3,214	-0,180
113,980	9,317	6,155	-2,980	-0,528	-2,968	-0,565	-2,971	-0,555	-2,972	-0,551
114,390	9,591	6,396	-2,729	-0,944	-2,716	-0,982	-2,720	-0,972	-2,721	-0,968
114,800	9,865	6,636	-2,470	-1,401	-2,456	-1,440	-2,460	-1,429	-2,461	-1,426
115,210	9,591	6,396	-2,684	-0,987	-2,671	-1,026	-2,674	-1,015	-2,675	-1,012
115,620	9,317	6,155	-2,888	-0,615	-2,874	-0,655	-2,877	-0,645	-2,879	-0,642
116,030	9,044	5,914	-3,080	-0,290	-3,065	-0,331	-3,069	-0,320	-3,070	-0,317
116,440	8,770	5,674	-3,259	-0,014	-3,244	-0,056	-3,248	-0,045	-3,249	-0,042
116,850	8,496	5,433	-3,425	0,208	-3,410	0,165	-3,414	0,176	-3,414	0,179
117,260	8,223	5,192	-3,575	0,370	-3,560	0,327	-3,564	0,339	-3,565	0,341
117,670	7,949	4,952	-3,710	0,468	-3,695	0,424	-3,699	0,436	-3,700	0,438
118,080	7,675	4,711	-3,827	0,494	-3,811	0,450	-3,816	0,462	-3,816	0,464
118,490	7,402	4,470	-3,923	0,440	-3,908	0,396	-3,912	0,407	-3,913	0,409
118,900	7,128	4,230	-3,997	0,294	-3,981	0,250	-3,986	0,262	-3,986	0,264
119,356	7,128	4,230	-3,891	0,015	-3,877	-0,025	-3,881	-0,014	-3,882	-0,012
119,811	7,128	4,230	-3,790	-0,253	-3,777	-0,289	-3,780	-0,279	-3,781	-0,278
120,267	7,128	4,230	-3,692	-0,510	-3,680	-0,542	-3,683	-0,533	-3,684	-0,532
120,722	7,128	4,230	-3,597	-0,756	-3,588	-0,784	-3,590	-0,777	-3,591	-0,776
121,178	7,128	4,230	-3,507	-0,992	-3,499	-1,016	-3,501	-1,009	-3,501	-1,009
121,633	7,128	4,230	-3,420	-1,218	-3,413	-1,237	-3,415	-1,232	-3,415	-1,231
122,089	7,128	4,230	-3,337	-1,433	-3,332	-1,447	-3,333	-1,443	-3,333	-1,443
122,544	7,128	4,230	-3,257	-1,638	-3,254	-1,648	-3,255	-1,645	-3,255	-1,645
123,000	7,128	4,230	-3,181	-1,833	-3,179	-1,838	-3,180	-1,837	-3,180	-1,836
123,492	7,128	4,230	-3,113	-2,055	-3,113	-2,055	-3,113	-2,055	-3,113	-2,055
123,984	7,128	4,230	-3,046	-2,272	-3,048	-2,266	-3,048	-2,268	-3,047	-2,268
124,476	7,128	4,230	-2,982	-2,483	-2,985	-2,472	-2,984	-2,475	-2,984	-2,475
124,968	7,128	4,230	-2,919	-2,688	-2,924	-2,673	-2,923	-2,677	-2,923	-2,678
125,460	7,128	4,230	-2,859	-2,888	-2,866	-2,868	-2,864	-2,873	-2,863	-2,874
125,952	7,128	4,230	-2,800	-3,081	-2,809	-3,057	-2,807	-3,063	-2,806	-3,064
126,444	7,128	4,230	-2,744	-3,268	-2,754	-3,239	-2,752	-3,247	-2,751	-3,248
126,936	7,128	4,230	-2,690	-3,449	-2,702	-3,415	-2,699	-3,424	-2,698	-3,426
127,428	7,128	4,230	-2,639	-3,623	-2,652	-3,585	-2,648	-3,595	-2,648	-3,597

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
127,920	7,128	4,230	-2,590	-3,790	-2,604	-3,748	-2,600	-3,759	-2,600	-3,761
128,412	7,128	4,230	-2,543	-3,949	-2,559	-3,904	-2,555	-3,916	-2,554	-3,918
128,904	7,128	4,230	-2,499	-4,102	-2,517	-4,052	-2,512	-4,066	-2,511	-4,068
129,396	7,128	4,230	-2,458	-4,247	-2,477	-4,193	-2,472	-4,208	-2,471	-4,210
129,888	7,128	4,230	-2,419	-4,384	-2,439	-4,327	-2,434	-4,342	-2,433	-4,345
130,380	7,128	4,230	-2,383	-4,513	-2,405	-4,453	-2,399	-4,469	-2,398	-4,472
130,872	7,128	4,230	-2,350	-4,634	-2,373	-4,570	-2,367	-4,587	-2,365	-4,591
131,364	7,128	4,230	-2,320	-4,747	-2,344	-4,680	-2,337	-4,698	-2,336	-4,701
131,856	7,128	4,230	-2,293	-4,851	-2,318	-4,781	-2,311	-4,799	-2,310	-4,804
132,348	7,128	4,230	-2,269	-4,946	-2,295	-4,873	-2,288	-4,893	-2,286	-4,897
132,840	7,128	4,230	-2,248	-5,032	-2,275	-4,956	-2,268	-4,977	-2,266	-4,981
133,332	7,128	4,230	-2,231	-5,109	-2,258	-5,031	-2,251	-5,052	-2,249	-5,057
133,824	7,128	4,230	-2,216	-5,177	-2,245	-5,096	-2,237	-5,118	-2,235	-5,123
134,316	7,128	4,230	-2,205	-5,235	-2,235	-5,151	-2,227	-5,174	-2,225	-5,179
134,808	7,128	4,230	-2,198	-5,283	-2,228	-5,197	-2,220	-5,220	-2,218	-5,226
135,300	7,128	4,230	-2,194	-5,322	-2,225	-5,233	-2,217	-5,257	-2,214	-5,263
135,797	7,128	4,230	-2,194	-5,343	-2,226	-5,252	-2,217	-5,277	-2,215	-5,283
136,294	7,128	4,230	-2,197	-5,354	-2,230	-5,261	-2,221	-5,286	-2,219	-5,293
136,791	7,128	4,230	-2,205	-5,354	-2,238	-5,259	-2,229	-5,284	-2,227	-5,292
137,288	7,128	4,230	-2,216	-5,344	-2,250	-5,246	-2,241	-5,272	-2,238	-5,280
137,785	7,128	4,230	-2,231	-5,322	-2,266	-5,222	-2,256	-5,249	-2,254	-5,257
138,282	7,128	4,230	-2,250	-5,289	-2,285	-5,187	-2,276	-5,214	-2,273	-5,223
138,779	7,128	4,230	-2,273	-5,245	-2,309	-5,141	-2,299	-5,169	-2,296	-5,177
139,276	7,128	4,230	-2,300	-5,189	-2,337	-5,083	-2,327	-5,111	-2,323	-5,120
139,773	7,128	4,230	-2,331	-5,121	-2,368	-5,014	-2,358	-5,042	-2,355	-5,052
140,270	7,128	4,230	-2,366	-5,041	-2,404	-4,932	-2,394	-4,961	-2,390	-4,971
140,767	7,128	4,230	-2,405	-4,949	-2,444	-4,839	-2,434	-4,869	-2,430	-4,879
141,264	7,128	4,230	-2,449	-4,845	-2,488	-4,734	-2,478	-4,764	-2,474	-4,774
141,761	7,128	4,230	-2,497	-4,729	-2,537	-4,616	-2,526	-4,646	-2,522	-4,658
142,258	7,128	4,230	-2,550	-4,600	-2,590	-4,486	-2,579	-4,517	-2,575	-4,528
142,755	7,128	4,230	-2,607	-4,459	-2,647	-4,343	-2,636	-4,374	-2,632	-4,386
143,252	7,128	4,230	-2,668	-4,304	-2,709	-4,188	-2,698	-4,219	-2,694	-4,231
143,748	7,128	4,230	-2,734	-4,136	-2,775	-4,019	-2,764	-4,050	-2,760	-4,063
144,245	7,128	4,230	-2,805	-3,955	-2,846	-3,837	-2,835	-3,869	-2,830	-3,882
144,742	7,128	4,230	-2,880	-3,761	-2,922	-3,642	-2,911	-3,674	-2,906	-3,688
145,239	7,128	4,230	-2,960	-3,553	-3,002	-3,434	-2,991	-3,466	-2,986	-3,480

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
145,736	7,128	4,230	-3,045	-3,332	-3,087	-3,212	-3,076	-3,244	-3,071	-3,259
146,233	7,128	4,230	-3,135	-3,096	-3,177	-2,976	-3,166	-3,008	-3,160	-3,023
146,730	7,128	4,230	-3,230	-2,847	-3,272	-2,726	-3,261	-2,759	-3,255	-2,774
147,227	7,128	4,230	-3,329	-2,583	-3,372	-2,462	-3,360	-2,495	-3,355	-2,511
147,724	7,128	4,230	-3,434	-2,305	-3,476	-2,184	-3,465	-2,217	-3,459	-2,233
148,221	7,128	4,230	-3,544	-2,012	-3,586	-1,892	-3,575	-1,924	-3,569	-1,941
148,718	7,128	4,230	-3,659	-1,705	-3,701	-1,584	-3,690	-1,617	-3,684	-1,634
149,215	7,128	4,230	-3,779	-1,383	-3,821	-1,262	-3,810	-1,294	-3,804	-1,312
149,712	7,128	4,230	-3,904	-1,045	-3,946	-0,925	-3,935	-0,957	-3,929	-0,976
150,209	7,128	4,230	-4,035	-0,693	-4,077	-0,573	-4,066	-0,605	-4,059	-0,624
150,706	7,128	4,230	-4,171	-0,325	-4,213	-0,205	-4,202	-0,237	-4,195	-0,257
151,203	7,128	4,230	-4,313	0,059	-4,354	0,178	-4,343	0,146	-4,336	0,126
151,700	7,128	4,230	-4,460	0,458	-4,501	0,576	-4,490	0,544	-4,483	0,524
152,110	7,402	4,470	-4,338	0,620	-4,381	0,741	-4,369	0,709	-4,362	0,689
152,520	7,675	4,711	-4,190	0,671	-4,233	0,795	-4,222	0,761	-4,215	0,743
152,930	7,949	4,952	-4,020	0,626	-4,064	0,752	-4,052	0,718	-4,046	0,701
153,340	8,223	5,192	-3,831	0,497	-3,876	0,626	-3,864	0,591	-3,858	0,575
153,750	8,496	5,433	-3,626	0,296	-3,671	0,427	-3,659	0,392	-3,654	0,377
154,160	8,770	5,674	-3,406	0,030	-3,453	0,164	-3,440	0,128	-3,435	0,113
154,570	9,044	5,914	-3,175	-0,292	-3,222	-0,157	-3,209	-0,193	-3,205	-0,207
154,980	9,317	6,155	-2,932	-0,666	-2,981	-0,528	-2,968	-0,565	-2,963	-0,578
155,390	9,591	6,396	-2,680	-1,084	-2,729	-0,944	-2,716	-0,982	-2,712	-0,994
155,800	9,865	6,636	-2,420	-1,544	-2,470	-1,401	-2,456	-1,440	-2,452	-1,451
156,210	9,591	6,396	-2,633	-1,133	-2,684	-0,987	-2,671	-1,026	-2,667	-1,037
156,620	9,317	6,155	-2,835	-0,765	-2,888	-0,615	-2,874	-0,655	-2,870	-0,666
157,030	9,044	5,914	-3,026	-0,443	-3,080	-0,290	-3,065	-0,331	-3,062	-0,341
157,440	8,770	5,674	-3,204	-0,171	-3,259	-0,014	-3,244	-0,056	-3,241	-0,066
157,850	8,496	5,433	-3,369	0,048	-3,425	0,208	-3,410	0,165	-3,406	0,156
158,260	8,223	5,192	-3,519	0,209	-3,575	0,370	-3,560	0,327	-3,557	0,318
158,670	7,949	4,952	-3,653	0,305	-3,710	0,468	-3,695	0,425	-3,692	0,416
159,080	7,675	4,711	-3,769	0,330	-3,827	0,494	-3,811	0,450	-3,809	0,442
159,490	7,402	4,470	-3,866	0,275	-3,923	0,440	-3,908	0,396	-3,905	0,388
159,900	7,128	4,230	-3,939	0,130	-3,997	0,295	-3,982	0,250	-3,979	0,243
160,356	7,128	4,230	-3,839	-0,135	-3,891	0,015	-3,877	-0,025	-3,875	-0,031
160,811	7,128	4,230	-3,742	-0,387	-3,790	-0,253	-3,777	-0,289	-3,775	-0,294
161,267	7,128	4,230	-3,650	-0,629	-3,692	-0,510	-3,680	-0,542	-3,679	-0,546

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
161,722	7,128	4,230	-3,561	-0,860	-3,597	-0,756	-3,588	-0,784	-3,586	-0,788
162,178	7,128	4,230	-3,476	-1,079	-3,507	-0,992	-3,499	-1,016	-3,498	-1,019
162,633	7,128	4,230	-3,395	-1,288	-3,420	-1,218	-3,414	-1,237	-3,413	-1,239
163,089	7,128	4,230	-3,318	-1,486	-3,337	-1,433	-3,332	-1,447	-3,331	-1,449
163,544	7,128	4,230	-3,245	-1,674	-3,257	-1,638	-3,254	-1,647	-3,253	-1,649
164,000	7,128	4,230	-3,175	-1,851	-3,181	-1,833	-3,179	-1,838	-3,179	-1,838
164,492	7,128	4,230	-3,113	-2,053	-3,113	-2,055	-3,113	-2,054	-3,113	-2,054
164,984	7,128	4,230	-3,053	-2,251	-3,046	-2,271	-3,048	-2,266	-3,048	-2,265
165,476	7,128	4,230	-2,995	-2,444	-2,982	-2,483	-2,985	-2,472	-2,986	-2,471
165,968	7,128	4,230	-2,939	-2,631	-2,919	-2,688	-2,924	-2,673	-2,925	-2,671
166,460	7,128	4,230	-2,885	-2,813	-2,859	-2,888	-2,866	-2,868	-2,867	-2,865
166,952	7,128	4,230	-2,833	-2,989	-2,800	-3,081	-2,809	-3,056	-2,810	-3,053
167,444	7,128	4,230	-2,782	-3,159	-2,744	-3,268	-2,754	-3,239	-2,756	-3,235
167,936	7,128	4,230	-2,734	-3,324	-2,690	-3,449	-2,702	-3,415	-2,704	-3,410
168,428	7,128	4,230	-2,688	-3,482	-2,639	-3,623	-2,652	-3,585	-2,654	-3,579
168,920	7,128	4,230	-2,644	-3,633	-2,590	-3,790	-2,604	-3,748	-2,607	-3,741
169,412	7,128	4,230	-2,603	-3,778	-2,543	-3,949	-2,559	-3,904	-2,562	-3,896
169,904	7,128	4,230	-2,564	-3,916	-2,499	-4,102	-2,517	-4,052	-2,520	-4,043
170,396	7,128	4,230	-2,528	-4,047	-2,458	-4,247	-2,477	-4,193	-2,480	-4,183
170,888	7,128	4,230	-2,494	-4,171	-2,419	-4,384	-2,439	-4,327	-2,443	-4,316
171,380	7,128	4,230	-2,462	-4,287	-2,383	-4,513	-2,405	-4,453	-2,409	-4,441
171,872	7,128	4,230	-2,434	-4,396	-2,350	-4,634	-2,373	-4,570	-2,377	-4,557
172,364	7,128	4,230	-2,408	-4,496	-2,320	-4,747	-2,344	-4,680	-2,349	-4,666
172,856	7,128	4,230	-2,385	-4,589	-2,293	-4,851	-2,318	-4,781	-2,323	-4,765
173,348	7,128	4,230	-2,365	-4,673	-2,269	-4,946	-2,295	-4,873	-2,301	-4,857
173,840	7,128	4,230	-2,348	-4,748	-2,248	-5,032	-2,275	-4,956	-2,281	-4,939
174,332	7,128	4,230	-2,334	-4,815	-2,231	-5,109	-2,258	-5,031	-2,265	-5,012
174,824	7,128	4,230	-2,323	-4,873	-2,216	-5,177	-2,245	-5,096	-2,252	-5,076
175,316	7,128	4,230	-2,315	-4,922	-2,206	-5,235	-2,235	-5,151	-2,242	-5,130
175,808	7,128	4,230	-2,311	-4,961	-2,198	-5,283	-2,228	-5,197	-2,236	-5,175
176,300	7,128	4,230	-2,310	-4,991	-2,194	-5,322	-2,225	-5,233	-2,233	-5,209
176,797	7,128	4,230	-2,313	-5,003	-2,194	-5,343	-2,226	-5,252	-2,234	-5,227
177,294	7,128	4,230	-2,319	-5,005	-2,197	-5,354	-2,230	-5,261	-2,239	-5,235
177,791	7,128	4,230	-2,330	-4,997	-2,205	-5,354	-2,238	-5,259	-2,248	-5,231
178,288	7,128	4,230	-2,344	-4,978	-2,216	-5,344	-2,250	-5,246	-2,260	-5,217
178,785	7,128	4,230	-2,361	-4,949	-2,231	-5,322	-2,266	-5,222	-2,276	-5,192
179,282	7,128	4,230	-2,383	-4,908	-2,250	-5,289	-2,285	-5,187	-2,296	-5,155

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
179,779	7,128	4,230	-2,408	-4,857	-2,273	-5,244	-2,309	-5,141	-2,320	-5,108
180,276	7,128	4,230	-2,438	-4,794	-2,300	-5,188	-2,337	-5,083	-2,349	-5,048
180,773	7,128	4,230	-2,471	-4,720	-2,331	-5,121	-2,368	-5,013	-2,381	-4,978
181,270	7,128	4,230	-2,508	-4,634	-2,366	-5,041	-2,404	-4,932	-2,417	-4,895
181,767	7,128	4,230	-2,550	-4,537	-2,405	-4,949	-2,444	-4,839	-2,458	-4,800
182,264	7,128	4,230	-2,595	-4,428	-2,449	-4,845	-2,488	-4,734	-2,502	-4,693
182,761	7,128	4,230	-2,645	-4,307	-2,497	-4,729	-2,537	-4,616	-2,551	-4,574
183,258	7,128	4,230	-2,699	-4,173	-2,550	-4,600	-2,590	-4,486	-2,605	-4,443
183,755	7,128	4,230	-2,757	-4,028	-2,607	-4,458	-2,647	-4,343	-2,663	-4,298
184,252	7,128	4,230	-2,820	-3,869	-2,668	-4,304	-2,709	-4,188	-2,725	-4,141
184,748	7,128	4,230	-2,887	-3,699	-2,734	-4,136	-2,775	-4,019	-2,792	-3,971
185,245	7,128	4,230	-2,959	-3,515	-2,805	-3,955	-2,846	-3,837	-2,864	-3,788
185,742	7,128	4,230	-3,035	-3,318	-2,880	-3,761	-2,922	-3,642	-2,940	-3,591
186,239	7,128	4,230	-3,116	-3,108	-2,960	-3,553	-3,002	-3,434	-3,021	-3,381
186,736	7,128	4,230	-3,202	-2,884	-3,045	-3,332	-3,087	-3,212	-3,106	-3,157
187,233	7,128	4,230	-3,292	-2,647	-3,135	-3,096	-3,177	-2,976	-3,197	-2,920
187,730	7,128	4,230	-3,387	-2,397	-3,230	-2,847	-3,272	-2,726	-3,292	-2,668
188,227	7,128	4,230	-3,487	-2,132	-3,329	-2,583	-3,372	-2,462	-3,393	-2,402
188,724	7,128	4,230	-3,592	-1,854	-3,434	-2,305	-3,476	-2,184	-3,498	-2,122
189,221	7,128	4,230	-3,702	-1,561	-3,544	-2,012	-3,586	-1,892	-3,608	-1,828
189,718	7,128	4,230	-3,817	-1,254	-3,659	-1,705	-3,701	-1,584	-3,724	-1,519
190,215	7,128	4,230	-3,936	-0,933	-3,779	-1,383	-3,821	-1,262	-3,845	-1,195
190,712	7,128	4,230	-4,062	-0,596	-3,904	-1,045	-3,946	-0,925	-3,971	-0,856
191,209	7,128	4,230	-4,192	-0,245	-4,035	-0,693	-4,077	-0,573	-4,102	-0,502
191,706	7,128	4,230	-4,327	0,121	-4,171	-0,325	-4,213	-0,205	-4,239	-0,132
192,203	7,128	4,230	-4,468	0,502	-4,313	0,059	-4,354	0,178	-4,381	0,252
192,700	7,128	4,230	-4,614	0,899	-4,460	0,458	-4,501	0,576	-4,528	0,653
193,110	7,402	4,470	-4,496	1,071	-4,338	0,620	-4,381	0,741	-4,406	0,813
193,520	7,675	4,711	-4,351	1,132	-4,190	0,671	-4,233	0,794	-4,257	0,862
193,930	7,949	4,952	-4,185	1,096	-4,020	0,626	-4,064	0,752	-4,087	0,816
194,340	8,223	5,192	-3,999	0,977	-3,831	0,497	-3,876	0,626	-3,897	0,686
194,750	8,496	5,433	-3,797	0,785	-3,626	0,296	-3,671	0,427	-3,691	0,484
195,160	8,770	5,674	-3,581	0,528	-3,406	0,030	-3,453	0,164	-3,472	0,218
195,570	9,044	5,914	-3,352	0,215	-3,175	-0,292	-3,222	-0,157	-3,240	-0,105
195,980	9,317	6,155	-3,113	-0,150	-2,932	-0,666	-2,981	-0,528	-2,998	-0,479
196,390	9,591	6,396	-2,864	-0,560	-2,680	-1,084	-2,729	-0,944	-2,746	-0,898
196,800	9,865	6,636	-2,606	-1,011	-2,420	-1,544	-2,470	-1,401	-2,485	-1,358

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
197,210	9,591	6,396	-2,738	-0,834	-2,633	-1,133	-2,684	-0,987	-2,699	-0,945
197,620	9,317	6,155	-2,851	-0,720	-2,835	-0,765	-2,888	-0,615	-2,902	-0,575
198,030	9,044	5,914	-2,946	-0,672	-3,026	-0,443	-3,080	-0,290	-3,093	-0,251
198,440	8,770	5,674	-3,020	-0,697	-3,204	-0,171	-3,259	-0,014	-3,272	0,023
198,850	8,496	5,433	-3,071	-0,803	-3,369	0,048	-3,425	0,208	-3,437	0,243
199,260	8,223	5,192	-3,096	-0,998	-3,519	0,209	-3,575	0,370	-3,587	0,404
199,670	7,949	4,952	-3,094	-1,293	-3,653	0,305	-3,710	0,468	-3,721	0,500
200,080	7,675	4,711	-3,059	-1,699	-3,769	0,330	-3,827	0,494	-3,837	0,524
200,490	7,402	4,470	-2,988	-2,232	-3,866	0,275	-3,923	0,440	-3,933	0,468
200,900	7,128	4,230	-2,875	-2,911	-3,939	0,130	-3,997	0,295	-4,006	0,320
201,356	7,128	4,230	-2,615	-3,631	-3,839	-0,134	-3,891	0,015	-3,899	0,038
201,811	7,128	4,230	-2,359	-4,341	-3,742	-0,387	-3,790	-0,253	-3,797	-0,233
202,267	7,128	4,230	-2,107	-5,039	-3,650	-0,629	-3,692	-0,510	-3,698	-0,493
202,722	7,128	4,230	-1,858	-5,727	-3,561	-0,860	-3,597	-0,756	-3,603	-0,742
203,178	7,128	4,230	-1,613	-6,403	-3,476	-1,079	-3,507	-0,992	-3,511	-0,980
203,633	7,128	4,230	-1,372	-7,070	-3,395	-1,288	-3,420	-1,218	-3,423	-1,208
204,089	7,128	4,230	-1,135	-7,726	-3,318	-1,486	-3,337	-1,433	-3,339	-1,426
204,544	7,128	4,230	-0,901	-8,372	-3,245	-1,674	-3,257	-1,638	-3,259	-1,633
205,000	7,128	4,230	-0,670	-9,007	-3,175	-1,851	-3,181	-1,833	-3,182	-1,831
205,492	7,128	4,230	0,000	0,000	-3,113	-2,053	-3,113	-2,055	-3,113	-2,055
205,984	7,128	4,230	0,000	0,000	-3,053	-2,251	-3,046	-2,271	-3,045	-2,274
206,476	7,128	4,230	0,000	0,000	-2,995	-2,444	-2,982	-2,483	-2,980	-2,488
206,968	7,128	4,230	0,000	0,000	-2,939	-2,631	-2,919	-2,688	-2,916	-2,696
207,460	7,128	4,230	0,000	0,000	-2,885	-2,813	-2,859	-2,888	-2,855	-2,898
207,952	7,128	4,230	0,000	0,000	-2,833	-2,989	-2,800	-3,081	-2,795	-3,095
208,444	7,128	4,230	0,000	0,000	-2,782	-3,159	-2,744	-3,268	-2,738	-3,285
208,936	7,128	4,230	0,000	0,000	-2,734	-3,324	-2,690	-3,449	-2,683	-3,469
209,428	7,128	4,230	0,000	0,000	-2,688	-3,482	-2,639	-3,623	-2,631	-3,646
209,920	7,128	4,230	0,000	0,000	-2,644	-3,633	-2,590	-3,790	-2,581	-3,816
210,412	7,128	4,230	0,000	0,000	-2,603	-3,778	-2,543	-3,949	-2,533	-3,979
210,904	7,128	4,230	0,000	0,000	-2,564	-3,916	-2,499	-4,102	-2,488	-4,135
211,396	7,128	4,230	0,000	0,000	-2,528	-4,047	-2,458	-4,247	-2,445	-4,284
211,888	7,128	4,230	0,000	0,000	-2,494	-4,171	-2,419	-4,384	-2,405	-4,425
212,380	7,128	4,230	0,000	0,000	-2,462	-4,287	-2,383	-4,513	-2,368	-4,558
212,872	7,128	4,230	0,000	0,000	-2,434	-4,396	-2,350	-4,634	-2,333	-4,683
213,364	7,128	4,230	0,000	0,000	-2,408	-4,496	-2,320	-4,747	-2,302	-4,799
213,856	7,128	4,230	0,000	0,000	-2,385	-4,589	-2,293	-4,851	-2,273	-4,908

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
214,348	7,128	4,230	0,000	0,000	-2,365	-4,673	-2,269	-4,946	-2,248	-5,007
214,840	7,128	4,230	0,000	0,000	-2,348	-4,748	-2,248	-5,032	-2,226	-5,098
215,332	7,128	4,230	0,000	0,000	-2,334	-4,815	-2,231	-5,109	-2,206	-5,179
215,824	7,128	4,230	0,000	0,000	-2,323	-4,873	-2,216	-5,177	-2,190	-5,251
216,316	7,128	4,230	0,000	0,000	-2,315	-4,922	-2,206	-5,235	-2,178	-5,314
216,808	7,128	4,230	0,000	0,000	-2,311	-4,961	-2,198	-5,283	-2,169	-5,367
217,300	7,128	4,230	0,000	0,000	-2,310	-4,991	-2,194	-5,322	-2,163	-5,410
217,797	7,128	4,230	0,000	0,000	-2,313	-5,003	-2,194	-5,343	-2,161	-5,436
218,294	7,128	4,230	0,000	0,000	-2,319	-5,005	-2,197	-5,354	-2,163	-5,452
218,791	7,128	4,230	0,000	0,000	-2,330	-4,997	-2,205	-5,354	-2,169	-5,457
219,288	7,128	4,230	0,000	0,000	-2,344	-4,978	-2,216	-5,344	-2,178	-5,452
219,785	7,128	4,230	0,000	0,000	-2,361	-4,949	-2,231	-5,322	-2,191	-5,435
220,282	7,128	4,230	0,000	0,000	-2,383	-4,908	-2,250	-5,289	-2,208	-5,407
220,779	7,128	4,230	0,000	0,000	-2,408	-4,857	-2,273	-5,244	-2,229	-5,368
221,276	7,128	4,230	0,000	0,000	-2,438	-4,794	-2,300	-5,188	-2,255	-5,317
221,773	7,128	4,230	0,000	0,000	-2,471	-4,720	-2,331	-5,121	-2,284	-5,255
222,270	7,128	4,230	0,000	0,000	-2,508	-4,634	-2,366	-5,041	-2,317	-5,180
222,767	7,128	4,230	0,000	0,000	-2,550	-4,537	-2,405	-4,949	-2,355	-5,094
223,264	7,128	4,230	0,000	0,000	-2,595	-4,428	-2,449	-4,845	-2,396	-4,996
223,761	7,128	4,230	0,000	0,000	-2,645	-4,307	-2,497	-4,729	-2,443	-4,885
224,258	7,128	4,230	0,000	0,000	-2,699	-4,173	-2,550	-4,600	-2,493	-4,762
224,755	7,128	4,230	0,000	0,000	-2,757	-4,028	-2,607	-4,458	-2,548	-4,626
225,252	7,128	4,230	0,000	0,000	-2,820	-3,869	-2,668	-4,304	-2,607	-4,478
225,748	7,128	4,230	0,000	0,000	-2,887	-3,699	-2,734	-4,136	-2,671	-4,316
226,245	7,128	4,230	0,000	0,000	-2,959	-3,515	-2,805	-3,955	-2,740	-4,141
226,742	7,128	4,230	0,000	0,000	-3,035	-3,318	-2,880	-3,761	-2,813	-3,953
227,239	7,128	4,230	0,000	0,000	-3,116	-3,108	-2,960	-3,553	-2,891	-3,752
227,736	7,128	4,230	0,000	0,000	-3,202	-2,884	-3,045	-3,332	-2,974	-3,536
228,233	7,128	4,230	0,000	0,000	-3,292	-2,647	-3,135	-3,096	-3,061	-3,307
228,730	7,128	4,230	0,000	0,000	-3,387	-2,397	-3,230	-2,847	-3,154	-3,064
229,227	7,128	4,230	0,000	0,000	-3,487	-2,132	-3,329	-2,583	-3,251	-2,807
229,724	7,128	4,230	0,000	0,000	-3,592	-1,854	-3,434	-2,305	-3,353	-2,536
230,221	7,128	4,230	0,000	0,000	-3,702	-1,561	-3,544	-2,012	-3,461	-2,250
230,718	7,128	4,230	0,000	0,000	-3,817	-1,254	-3,659	-1,705	-3,573	-1,949
231,215	7,128	4,230	0,000	0,000	-3,936	-0,933	-3,779	-1,382	-3,691	-1,634
231,712	7,128	4,230	0,000	0,000	-4,062	-0,596	-3,904	-1,045	-3,814	-1,303
232,209	7,128	4,230	0,000	0,000	-4,192	-0,245	-4,035	-0,693	-3,942	-0,958

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
232,706	7,128	4,230	0,000	0,000	-4,327	0,121	-4,171	-0,325	-4,076	-0,597
233,203	7,128	4,230	0,000	0,000	-4,468	0,502	-4,313	0,059	-4,215	-0,221
233,700	7,128	4,230	0,000	0,000	-4,614	0,899	-4,460	0,458	-4,360	0,171
234,110	7,402	4,470	0,000	0,000	-4,496	1,071	-4,338	0,620	-4,244	0,351
234,520	7,675	4,711	0,000	0,000	-4,351	1,132	-4,190	0,671	-4,102	0,418
234,930	7,949	4,952	0,000	0,000	-4,185	1,096	-4,020	0,626	-3,936	0,387
235,340	8,223	5,192	0,000	0,000	-3,999	0,977	-3,831	0,498	-3,752	0,272
235,750	8,496	5,433	0,000	0,000	-3,797	0,785	-3,626	0,296	-3,551	0,083
236,160	8,770	5,674	0,000	0,000	-3,581	0,528	-3,406	0,030	-3,336	-0,172
236,570	9,044	5,914	0,000	0,000	-3,352	0,215	-3,175	-0,292	-3,108	-0,484
236,980	9,317	6,155	0,000	0,000	-3,113	-0,150	-2,932	-0,666	-2,869	-0,847
237,390	9,591	6,396	0,000	0,000	-2,864	-0,560	-2,680	-1,084	-2,620	-1,257
237,800	9,865	6,636	0,000	0,000	-2,606	-1,011	-2,420	-1,544	-2,363	-1,708
238,210	9,591	6,396	0,000	0,000	-2,738	-0,834	-2,633	-1,133	-2,578	-1,290
238,620	9,317	6,155	0,000	0,000	-2,851	-0,720	-2,835	-0,765	-2,783	-0,916
239,030	9,044	5,914	0,000	0,000	-2,946	-0,672	-3,026	-0,443	-2,975	-0,587
239,440	8,770	5,674	0,000	0,000	-3,020	-0,697	-3,204	-0,171	-3,156	-0,308
239,850	8,496	5,433	0,000	0,000	-3,071	-0,803	-3,369	0,048	-3,323	-0,083
240,260	8,223	5,192	0,000	0,000	-3,096	-0,998	-3,519	0,209	-3,475	0,085
240,670	7,949	4,952	0,000	0,000	-3,094	-1,293	-3,653	0,305	-3,612	0,187
241,080	7,675	4,711	0,000	0,000	-3,059	-1,699	-3,769	0,330	-3,731	0,219
241,490	7,402	4,470	0,000	0,000	-2,988	-2,232	-3,866	0,275	-3,829	0,171
241,900	7,128	4,230	0,000	0,000	-2,875	-2,911	-3,939	0,130	-3,905	0,033
242,356	7,128	4,230	0,000	0,000	-2,615	-3,631	-3,839	-0,134	-3,809	-0,220
242,811	7,128	4,230	0,000	0,000	-2,359	-4,341	-3,742	-0,387	-3,716	-0,463
243,267	7,128	4,230	0,000	0,000	-2,107	-5,039	-3,650	-0,629	-3,627	-0,694
243,722	7,128	4,230	0,000	0,000	-1,858	-5,727	-3,561	-0,860	-3,542	-0,914
244,178	7,128	4,230	0,000	0,000	-1,613	-6,403	-3,477	-1,079	-3,461	-1,124
244,633	7,128	4,230	0,000	0,000	-1,372	-7,070	-3,395	-1,288	-3,383	-1,323
245,089	7,128	4,230	0,000	0,000	-1,135	-7,726	-3,318	-1,486	-3,309	-1,512
245,544	7,128	4,230	0,000	0,000	-0,901	-8,372	-3,245	-1,674	-3,239	-1,691
246,000	7,128	4,230	0,000	0,000	-0,670	-9,007	-3,175	-1,851	-3,172	-1,859
246,492	7,128	4,230	0,000	0,000	0,000	0,000	-3,113	-2,053	-3,113	-2,053
246,984	7,128	4,230	0,000	0,000	0,000	0,000	-3,053	-2,251	-3,057	-2,241
247,476	7,128	4,230	0,000	0,000	0,000	0,000	-2,995	-2,444	-3,002	-2,424
247,968	7,128	4,230	0,000	0,000	0,000	0,000	-2,939	-2,631	-2,950	-2,601
248,460	7,128	4,230	0,000	0,000	0,000	0,000	-2,885	-2,813	-2,899	-2,772

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
248,952	7,128	4,230	0,000	0,000	0,000	0,000	-2,833	-2,989	-2,851	-2,938
249,444	7,128	4,230	0,000	0,000	0,000	0,000	-2,782	-3,159	-2,804	-3,097
249,936	7,128	4,230	0,000	0,000	0,000	0,000	-2,734	-3,324	-2,760	-3,249
250,428	7,128	4,230	0,000	0,000	0,000	0,000	-2,688	-3,482	-2,718	-3,395
250,920	7,128	4,230	0,000	0,000	0,000	0,000	-2,644	-3,633	-2,679	-3,534
251,412	7,128	4,230	0,000	0,000	0,000	0,000	-2,603	-3,778	-2,642	-3,667
251,904	7,128	4,230	0,000	0,000	0,000	0,000	-2,564	-3,916	-2,608	-3,791
252,396	7,128	4,230	0,000	0,000	0,000	0,000	-2,528	-4,047	-2,576	-3,909
252,888	7,128	4,230	0,000	0,000	0,000	0,000	-2,494	-4,171	-2,547	-4,018
253,380	7,128	4,230	0,000	0,000	0,000	0,000	-2,462	-4,287	-2,521	-4,120
253,872	7,128	4,230	0,000	0,000	0,000	0,000	-2,434	-4,396	-2,497	-4,214
254,364	7,128	4,230	0,000	0,000	0,000	0,000	-2,408	-4,496	-2,477	-4,300
254,856	7,128	4,230	0,000	0,000	0,000	0,000	-2,385	-4,589	-2,459	-4,377
255,348	7,128	4,230	0,000	0,000	0,000	0,000	-2,365	-4,673	-2,445	-4,445
255,840	7,128	4,230	0,000	0,000	0,000	0,000	-2,348	-4,748	-2,433	-4,504
256,332	7,128	4,230	0,000	0,000	0,000	0,000	-2,334	-4,815	-2,425	-4,554
256,824	7,128	4,230	0,000	0,000	0,000	0,000	-2,323	-4,873	-2,420	-4,595
257,316	7,128	4,230	0,000	0,000	0,000	0,000	-2,315	-4,922	-2,418	-4,627
257,808	7,128	4,230	0,000	0,000	0,000	0,000	-2,311	-4,961	-2,420	-4,648
258,300	7,128	4,230	0,000	0,000	0,000	0,000	-2,310	-4,991	-2,425	-4,660
258,797	7,128	4,230	0,000	0,000	0,000	0,000	-2,313	-5,003	-2,435	-4,655
259,294	7,128	4,230	0,000	0,000	0,000	0,000	-2,319	-5,006	-2,448	-4,639
259,791	7,128	4,230	0,000	0,000	0,000	0,000	-2,330	-4,997	-2,464	-4,612
260,288	7,128	4,230	0,000	0,000	0,000	0,000	-2,344	-4,978	-2,485	-4,575
260,785	7,128	4,230	0,000	0,000	0,000	0,000	-2,361	-4,949	-2,509	-4,527
261,282	7,128	4,230	0,000	0,000	0,000	0,000	-2,383	-4,908	-2,537	-4,467
261,779	7,128	4,230	0,000	0,000	0,000	0,000	-2,408	-4,857	-2,569	-4,396
262,276	7,128	4,230	0,000	0,000	0,000	0,000	-2,438	-4,794	-2,606	-4,314
262,773	7,128	4,230	0,000	0,000	0,000	0,000	-2,471	-4,720	-2,646	-4,220
263,270	7,128	4,230	0,000	0,000	0,000	0,000	-2,508	-4,635	-2,690	-4,114
263,767	7,128	4,230	0,000	0,000	0,000	0,000	-2,550	-4,537	-2,739	-3,996
264,264	7,128	4,230	0,000	0,000	0,000	0,000	-2,595	-4,428	-2,792	-3,866
264,761	7,128	4,230	0,000	0,000	0,000	0,000	-2,645	-4,307	-2,849	-3,723
265,258	7,128	4,230	0,000	0,000	0,000	0,000	-2,699	-4,174	-2,911	-3,568
265,755	7,128	4,230	0,000	0,000	0,000	0,000	-2,757	-4,028	-2,977	-3,401
266,252	7,128	4,230	0,000	0,000	0,000	0,000	-2,820	-3,870	-3,047	-3,220
266,748	7,128	4,230	0,000	0,000	0,000	0,000	-2,887	-3,699	-3,122	-3,027

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
267,245	7,128	4,230	0,000	0,000	0,000	0,000	-2,959	-3,515	-3,202	-2,820
267,742	7,128	4,230	0,000	0,000	0,000	0,000	-3,035	-3,318	-3,286	-2,600
268,239	7,128	4,230	0,000	0,000	0,000	0,000	-3,116	-3,108	-3,375	-2,367
268,736	7,128	4,230	0,000	0,000	0,000	0,000	-3,202	-2,885	-3,469	-2,120
269,233	7,128	4,230	0,000	0,000	0,000	0,000	-3,292	-2,648	-3,568	-1,859
269,730	7,128	4,230	0,000	0,000	0,000	0,000	-3,387	-2,397	-3,672	-1,584
270,227	7,128	4,230	0,000	0,000	0,000	0,000	-3,487	-2,133	-3,780	-1,295
270,724	7,128	4,230	0,000	0,000	0,000	0,000	-3,592	-1,854	-3,894	-0,992
271,221	7,128	4,230	0,000	0,000	0,000	0,000	-3,702	-1,561	-4,012	-0,674
271,718	7,128	4,230	0,000	0,000	0,000	0,000	-3,816	-1,254	-4,136	-0,341
272,215	7,128	4,230	0,000	0,000	0,000	0,000	-3,936	-0,933	-4,265	0,006
272,712	7,128	4,230	0,000	0,000	0,000	0,000	-4,061	-0,597	-4,399	0,368
273,209	7,128	4,230	0,000	0,000	0,000	0,000	-4,192	-0,246	-4,538	0,746
273,706	7,128	4,230	0,000	0,000	0,000	0,000	-4,327	0,121	-4,683	1,138
274,203	7,128	4,230	0,000	0,000	0,000	0,000	-4,468	0,502	-4,834	1,547
274,700	7,128	4,230	0,000	0,000	0,000	0,000	-4,614	0,898	-4,989	1,971
275,110	7,402	4,470	0,000	0,000	0,000	0,000	-4,496	1,071	-4,848	2,077
275,520	7,675	4,711	0,000	0,000	0,000	0,000	-4,351	1,132	-4,683	2,079
275,930	7,949	4,952	0,000	0,000	0,000	0,000	-4,185	1,096	-4,497	1,989
276,340	8,223	5,192	0,000	0,000	0,000	0,000	-3,999	0,977	-4,294	1,820
276,750	8,496	5,433	0,000	0,000	0,000	0,000	-3,797	0,785	-4,076	1,582
277,160	8,770	5,674	0,000	0,000	0,000	0,000	-3,580	0,528	-3,844	1,282
277,570	9,044	5,914	0,000	0,000	0,000	0,000	-3,352	0,214	-3,602	0,929
277,980	9,317	6,155	0,000	0,000	0,000	0,000	-3,113	-0,150	-3,350	0,528
278,390	9,591	6,396	0,000	0,000	0,000	0,000	-2,864	-0,560	-3,089	0,083
278,800	9,865	6,636	0,000	0,000	0,000	0,000	-2,606	-1,011	-2,820	-0,401
279,210	9,591	6,396	0,000	0,000	0,000	0,000	-2,737	-0,835	-3,022	-0,021
279,620	9,317	6,155	0,000	0,000	0,000	0,000	-2,851	-0,720	-3,213	0,314
280,030	9,044	5,914	0,000	0,000	0,000	0,000	-2,946	-0,672	-3,391	0,601
280,440	8,770	5,674	0,000	0,000	0,000	0,000	-3,020	-0,697	-3,556	0,834
280,850	8,496	5,433	0,000	0,000	0,000	0,000	-3,071	-0,803	-3,706	1,011
281,260	8,223	5,192	0,000	0,000	0,000	0,000	-3,096	-0,998	-3,840	1,125
281,670	7,949	4,952	0,000	0,000	0,000	0,000	-3,094	-1,293	-3,956	1,171
282,080	7,675	4,711	0,000	0,000	0,000	0,000	-3,059	-1,699	-4,053	1,140
282,490	7,402	4,470	0,000	0,000	0,000	0,000	-2,988	-2,233	-4,127	1,023
282,900	7,128	4,230	0,000	0,000	0,000	0,000	-2,875	-2,911	-4,177	0,809
283,356	7,128	4,230	0,000	0,000	0,000	0,000	-2,615	-3,631	-4,032	0,417

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
283,811	7,128	4,230	0,000	0,000	0,000	0,000	-2,359	-4,341	-3,890	0,035
284,267	7,128	4,230	0,000	0,000	0,000	0,000	-2,107	-5,039	-3,753	-0,335
284,722	7,128	4,230	0,000	0,000	0,000	0,000	-1,858	-5,727	-3,619	-0,693
285,178	7,128	4,230	0,000	0,000	0,000	0,000	-1,613	-6,403	-3,490	-1,041
285,633	7,128	4,230	0,000	0,000	0,000	0,000	-1,372	-7,070	-3,364	-1,378
286,089	7,128	4,230	0,000	0,000	0,000	0,000	-1,135	-7,726	-3,242	-1,705
286,544	7,128	4,230	0,000	0,000	0,000	0,000	-0,901	-8,372	-3,123	-2,021
287,000	7,128	4,230	0,000	0,000	0,000	0,000	-0,670	-9,007	-3,008	-2,326
287,492	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,116	-3,427
287,984	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,975	-3,870
288,476	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,837	-4,305
288,968	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,700	-4,734
289,460	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,567	-5,155
289,952	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,436	-5,568
290,444	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,308	-5,974
290,936	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,183	-6,370
291,428	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-2,061	-6,758
291,920	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,943	-7,137
292,412	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,827	-7,507
292,904	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,715	-7,867
293,396	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,606	-8,217
293,888	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,501	-8,557
294,380	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,400	-8,886
294,872	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,302	-9,204
295,364	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,209	-9,512
295,856	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,119	-9,807
296,348	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,034	-10,091
296,840	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,952	-10,363
297,332	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,875	-10,622
297,824	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,803	-10,869
298,316	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,735	-11,103
298,808	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,672	-11,323
299,300	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,613	-11,530
299,782	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,575	-11,615
300,265	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,549	-11,662
300,747	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,537	-11,672
301,229	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,537	-11,646

x [m]	A_c [m^2]	I_c [m^4]	$\sigma_{sup,5}$ [MPa]	$\sigma_{inf,5}$ [MPa]	$\sigma_{sup,6}$ [MPa]	$\sigma_{inf,6}$ [MPa]	$\sigma_{sup,7}$ [MPa]	$\sigma_{inf,7}$ [MPa]	$\sigma_{sup,8}$ [MPa]	$\sigma_{inf,8}$ [MPa]
301,712	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,550	-11,584
302,194	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,575	-11,486
302,676	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,613	-11,353
303,159	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,663	-11,185
303,641	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,726	-10,981
304,124	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,800	-10,744
304,606	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,886	-10,472
305,088	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-0,985	-10,166
305,571	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,094	-9,827
306,053	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,216	-9,454
306,535	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,349	-9,049
307,018	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,493	-8,611
307,500	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-1,649	-8,140
307,910	7,737	4,529	0,000	0,000	0,000	0,000	0,000	0,000	-1,630	-7,161
308,320	8,346	4,828	0,000	0,000	0,000	0,000	0,000	0,000	-1,625	-6,291
308,730	8,955	5,128	0,000	0,000	0,000	0,000	0,000	0,000	-1,630	-5,513
309,140	9,564	5,427	0,000	0,000	0,000	0,000	0,000	0,000	-1,642	-4,812
309,550	10,173	5,726	0,000	0,000	0,000	0,000	0,000	0,000	-1,658	-4,178
309,960	10,782	6,025	0,000	0,000	0,000	0,000	0,000	0,000	-1,678	-3,602
310,370	11,391	6,325	0,000	0,000	0,000	0,000	0,000	0,000	-1,699	-3,077
310,780	12,001	6,624	0,000	0,000	0,000	0,000	0,000	0,000	-1,720	-2,599
311,190	12,610	6,923	0,000	0,000	0,000	0,000	0,000	0,000	-1,741	-2,161
311,600	13,219	7,222	0,000	0,000	0,000	0,000	0,000	0,000	-1,761	-1,761
287,492	7,128	4,230	0,000	0,000	0,000	0,000	0,000	0,000	-3,116	-3,427

Anexo E – Estado limite de descompressão

E.1 Início de exploração

v_{sup} [m]	v_{inf} [m]	f_{ctm} [MPa]	f_{ctk} [MPa]
0,674	1,926	3,200	2,200

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
0,000	13,219	7,222	0,000	19820,939	0,000	0,000	-1,499	-1,499
0,410	12,665	6,950	1508,469	19880,078	-2117,878	136,890	-1,524	-1,701
0,820	12,111	6,678	2931,736	19939,217	-4177,601	275,903	-1,548	-1,926
1,230	11,558	6,406	4274,921	19998,356	-6177,240	415,748	-1,574	-2,177
1,640	11,004	6,134	5543,145	20057,494	-8116,156	556,432	-1,601	-2,456
2,050	10,450	5,862	6726,217	20116,633	-9993,707	697,954	-1,630	-2,769
2,460	9,896	5,590	7856,823	20175,772	-11809,251	840,310	-1,663	-3,111
2,870	9,343	5,318	8927,863	20234,910	-13562,149	983,503	-1,703	-3,488
3,280	8,789	5,046	9944,491	20294,049	-15251,758	1127,532	-1,751	-3,904
3,690	8,235	4,774	10884,446	20353,188	-16877,437	1272,394	-1,805	-4,376
4,100	7,682	4,502	11804,665	20412,327	-18438,546	1418,095	-1,876	-4,889
4,582	7,128	4,230	12836,398	20471,465	-20181,309	1589,759	-1,955	-5,493
5,065	7,128	4,230	13796,856	20530,604	-21831,185	1762,444	-1,881	-5,736
5,547	7,128	4,230	14697,295	20589,743	-23387,221	1936,080	-1,812	-5,964
6,029	7,128	4,230	15563,746	20648,881	-24848,563	2110,709	-1,754	-6,164
6,512	7,128	4,230	16376,287	20708,020	-26214,324	2286,327	-1,702	-6,344
6,994	7,128	4,230	17084,061	20767,159	-27483,640	2462,954	-1,649	-6,527
7,476	7,128	4,230	17785,274	20826,298	-28655,575	2640,545	-1,610	-6,669
7,959	7,128	4,230	18432,576	20885,436	-29729,267	2819,126	-1,579	-6,790
8,441	7,128	4,230	18997,027	20944,575	-30703,846	2998,716	-1,551	-6,904
8,924	7,128	4,230	19501,578	21003,714	-31578,388	3179,275	-1,529	-6,998
9,406	7,128	4,230	19983,697	21062,852	-32352,025	3360,827	-1,520	-7,057
9,888	7,128	4,230	20406,117	21121,991	-33023,881	3543,379	-1,517	-7,095
10,371	7,128	4,230	20722,533	21181,130	-33593,044	3726,903	-1,515	-7,135
10,853	7,128	4,230	21030,387	21240,269	-34058,641	3911,425	-1,527	-7,131
11,335	7,128	4,230	21293,478	21299,407	-34419,783	4096,933	-1,549	-7,100
11,818	7,128	4,230	21462,141	21358,546	-34675,586	4283,436	-1,573	-7,063
12,300	7,128	4,230	21573,518	21417,685	-34825,155	4470,922	-1,606	-7,003
12,797	7,128	4,230	21673,697	21456,637	-34855,075	4660,340	-1,652	-6,890

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
13,294	7,128	4,230	21695,777	21495,590	-34817,916	4850,417	-1,698	-6,782
13,791	7,128	4,230	21621,866	21534,542	-34713,315	5041,151	-1,738	-6,687
14,288	7,128	4,230	21535,416	21573,495	-34540,908	5232,537	-1,788	-6,566
14,785	7,128	4,230	21400,384	21612,447	-34300,332	5424,574	-1,841	-6,436
15,282	7,128	4,230	21151,471	21651,400	-33991,221	5617,278	-1,887	-6,326
15,779	7,128	4,230	20865,392	21690,353	-33613,212	5810,629	-1,938	-6,202
16,276	7,128	4,230	20558,442	21729,305	-33165,941	6004,638	-1,996	-6,055
16,773	7,128	4,230	20149,539	21768,258	-32649,045	6199,301	-2,050	-5,923
17,270	7,128	4,230	19668,499	21807,210	-32062,158	6394,620	-2,103	-5,791
17,767	7,128	4,230	19183,196	21846,163	-31404,918	6590,595	-2,168	-5,629
18,264	7,128	4,230	18617,396	21885,115	-30676,959	6787,224	-2,230	-5,471
18,761	7,128	4,230	17961,569	21924,068	-29877,919	6984,511	-2,290	-5,321
19,258	7,128	4,230	17279,080	21963,020	-29007,432	7182,449	-2,357	-5,151
19,755	7,128	4,230	16556,508	22001,973	-28065,136	7381,048	-2,429	-4,966
20,252	7,128	4,230	15726,017	22040,925	-27050,665	7580,300	-2,496	-4,797
20,748	7,128	4,230	14847,682	22079,878	-25963,680	7780,227	-2,566	-4,617
21,245	7,128	4,230	13959,527	22118,831	-24803,771	7980,790	-2,647	-4,407
21,742	7,128	4,230	12963,455	22157,783	-23570,596	8182,009	-2,722	-4,213
22,239	7,128	4,230	11901,210	22196,736	-22263,791	8383,884	-2,799	-4,015
22,736	7,128	4,230	10828,189	22235,688	-20882,992	8586,417	-2,886	-3,788
23,233	7,128	4,230	9675,627	22274,641	-19427,835	8789,596	-2,972	-3,563
23,730	7,128	4,230	8439,001	22313,593	-17897,957	8993,432	-3,056	-3,342
24,227	7,128	4,230	7173,310	22352,546	-16292,992	9197,934	-3,148	-3,100
24,724	7,128	4,230	5864,415	22391,498	-14612,577	9403,078	-3,246	-2,843
25,221	7,128	4,230	4453,566	22430,451	-12856,348	9608,885	-3,339	-2,598
25,718	7,128	4,230	2996,894	22469,403	-11023,941	9815,344	-3,437	-2,338
26,215	7,128	4,230	-3395,646	22508,356	-9114,993	10022,460	-2,761	-4,291
26,712	7,128	4,230	-4938,866	22547,308	-7129,138	10230,229	-2,870	-4,000
27,209	7,128	4,230	-6536,506	22586,261	-5066,013	10438,655	-2,983	-3,699
27,706	7,128	4,230	-8188,569	22625,214	-2925,255	10647,731	-3,100	-3,386
28,203	7,128	4,230	-9895,053	22664,166	-706,498	10857,472	-3,220	-3,063
28,700	7,128	4,230	-11655,958	22703,119	1590,620	11067,860	-3,345	-2,729
29,110	7,402	4,470	-13212,974	22595,987	3402,077	11174,504	-3,258	-2,465
29,520	7,675	4,711	-14817,728	22488,854	5006,938	11278,282	-3,140	-2,330
29,930	7,949	4,952	-16468,921	22381,722	6406,559	11380,565	-2,995	-2,303
30,340	8,223	5,192	-18170,298	22274,590	7603,665	11481,353	-2,828	-2,370

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
30,750	8,496	5,433	-19925,604	22167,458	8600,981	11580,647	-2,641	-2,518
31,160	8,770	5,674	-21738,583	22060,326	9401,233	11678,449	-2,437	-2,739
31,570	9,044	5,914	-23612,980	21953,194	10007,147	11774,755	-2,219	-3,024
31,980	9,317	6,155	-25552,539	21846,062	10421,446	11869,571	-1,987	-3,365
32,390	9,591	6,396	-27561,004	21738,929	10646,858	11962,889	-1,745	-3,758
32,800	9,865	6,636	-29642,121	21631,797	10686,108	12054,711	-1,492	-4,196
33,210	9,591	6,396	-27494,584	21524,665	10541,920	11990,919	-1,721	-3,738
33,620	9,317	6,155	-25419,698	21417,533	10217,021	11927,170	-1,940	-3,324
34,030	9,044	5,914	-23415,483	21310,401	9714,136	11863,457	-2,147	-2,955
34,440	8,770	5,674	-21500,536	21203,269	9035,990	11799,790	-2,339	-2,643
34,850	8,496	5,433	-19647,006	21096,137	8185,308	11736,155	-2,517	-2,386
35,260	8,223	5,192	-17851,150	20989,005	7164,817	11672,569	-2,681	-2,187
35,670	7,949	4,952	-16109,222	20881,872	5977,241	11609,019	-2,828	-2,052
36,080	7,675	4,711	-14417,477	20774,740	4625,306	11545,510	-2,958	-1,990
36,490	7,402	4,470	-12772,173	20667,608	3111,738	11482,038	-3,067	-2,007
36,900	7,128	4,230	-11169,563	20560,476	1439,261	11418,613	-3,154	-2,116
37,356	7,128	4,230	-9435,260	20518,508	-468,973	11389,818	-3,115	-2,202
37,811	7,128	4,230	-7749,045	20476,541	-2317,014	11362,246	-3,079	-2,283
38,267	7,128	4,230	-6131,136	20434,573	-4104,031	11334,725	-3,042	-2,366
38,722	7,128	4,230	-4618,334	20392,605	-5830,275	11307,184	-2,998	-2,470
39,178	7,128	4,230	-3151,261	20350,638	-7496,151	11279,690	-2,956	-2,567
39,633	7,128	4,230	2986,708	20308,670	-9101,915	11252,182	-3,668	-0,510
40,089	7,128	4,230	4386,566	20266,702	-10647,968	11224,721	-3,634	-0,583
40,544	7,128	4,230	5784,897	20224,735	-12134,570	11197,241	-3,610	-0,630
41,000	7,128	4,230	7135,140	20182,767	-13562,118	11169,813	-3,587	-0,672
41,492	7,128	4,230	8480,353	20232,164	-15108,603	11192,593	-3,566	-0,760
41,984	7,128	4,230	9817,858	20281,561	-16600,559	11215,348	-3,552	-0,827
42,476	7,128	4,230	11129,550	20330,957	-18037,534	11238,077	-3,542	-0,881
42,968	7,128	4,230	12345,745	20380,354	-19419,076	11260,779	-3,526	-0,952
43,460	7,128	4,230	13503,933	20429,751	-20744,732	11283,459	-3,510	-1,025
43,952	7,128	4,230	14644,884	20479,147	-22014,050	11306,108	-3,500	-1,080
44,444	7,128	4,230	15710,116	20528,544	-23226,578	11328,741	-3,487	-1,144
44,936	7,128	4,230	16679,851	20577,941	-24381,862	11351,344	-3,468	-1,225
45,428	7,128	4,230	17647,633	20627,337	-25479,452	11373,926	-3,458	-1,281
45,920	7,128	4,230	18561,655	20676,734	-26518,894	11396,480	-3,449	-1,335
46,412	7,128	4,230	19360,548	20726,131	-27499,735	11419,012	-3,430	-1,414

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
46,904	7,128	4,230	20136,579	20775,528	-28421,524	11441,515	-3,418	-1,477
47,396	7,128	4,230	20879,677	20824,924	-29283,809	11463,994	-3,409	-1,528
47,888	7,128	4,230	21527,276	20874,321	-30086,135	11486,449	-3,395	-1,595
48,380	7,128	4,230	22110,719	20923,718	-30828,052	11508,880	-3,380	-1,664
48,872	7,128	4,230	22682,823	20973,114	-31509,107	11531,289	-3,373	-1,711
49,364	7,128	4,230	23179,209	21022,511	-32128,848	11553,670	-3,364	-1,764
49,856	7,128	4,230	23580,097	21071,908	-32686,821	11576,025	-3,350	-1,832
50,348	7,128	4,230	23970,512	21121,305	-33182,575	11598,350	-3,343	-1,877
50,840	7,128	4,230	24315,490	21170,701	-33615,657	11620,655	-3,340	-1,913
51,332	7,128	4,230	24545,340	21220,098	-33985,615	11642,935	-3,328	-1,974
51,824	7,128	4,230	24742,183	21269,495	-34291,996	11665,193	-3,321	-2,021
52,316	7,128	4,230	24916,093	21318,891	-34534,348	11687,427	-3,321	-2,049
52,808	7,128	4,230	24994,505	21368,288	-34712,219	11709,628	-3,315	-2,091
53,300	7,128	4,230	24997,506	21417,685	-34825,155	11731,807	-3,308	-2,138
53,797	7,128	4,230	25000,076	21456,637	-34855,075	11748,194	-3,312	-2,148
54,294	7,128	4,230	24924,547	21495,590	-34817,916	11764,558	-3,314	-2,164
54,791	7,128	4,230	24753,026	21534,542	-34713,315	11780,905	-3,311	-2,192
55,288	7,128	4,230	24560,258	21573,495	-34540,908	11797,230	-3,316	-2,199
55,785	7,128	4,230	24328,099	21612,447	-34300,332	11813,535	-3,325	-2,194
56,282	7,128	4,230	23982,058	21651,400	-33991,221	11829,816	-3,328	-2,209
56,779	7,128	4,230	23593,822	21690,353	-33613,212	11846,078	-3,334	-2,211
57,276	7,128	4,230	23190,148	21729,305	-33165,941	11862,322	-3,349	-2,189
57,773	7,128	4,230	22684,518	21768,258	-32649,045	11878,537	-3,359	-2,182
58,270	7,128	4,230	22106,753	21807,210	-32062,158	11894,737	-3,368	-2,176
58,767	7,128	4,230	21523,021	21846,163	-31404,918	11910,918	-3,388	-2,141
59,264	7,128	4,230	20860,827	21885,115	-30676,959	11927,079	-3,407	-2,109
59,761	7,128	4,230	20108,606	21924,068	-29877,919	11943,216	-3,422	-2,086
60,258	7,128	4,230	19330,317	21963,020	-29007,432	11959,332	-3,445	-2,042
60,755	7,128	4,230	18511,619	22001,973	-28065,136	11975,425	-3,473	-1,984
61,252	7,128	4,230	17585,003	22040,925	-27050,665	11991,500	-3,495	-1,942
61,748	7,128	4,230	16612,870	22079,878	-25963,680	12007,577	-3,521	-1,888
62,245	7,128	4,230	15628,799	22118,831	-24803,771	12023,610	-3,557	-1,806
62,742	7,128	4,230	14536,810	22157,783	-23570,596	12039,624	-3,588	-1,740
63,239	7,128	4,230	13378,649	22196,736	-22263,791	12055,619	-3,619	-1,670
63,736	7,128	4,230	12213,435	22235,688	-20882,992	12071,589	-3,662	-1,570
64,233	7,128	4,230	10965,116	22274,641	-19427,835	12087,535	-3,703	-1,474
64,730	7,128	4,230	9632,732	22313,593	-17897,957	12103,464	-3,742	-1,383

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
65,227	7,128	4,230	8277,775	22352,546	-16292,992	12119,374	-3,790	-1,267
65,724	7,128	4,230	6884,887	22391,498	-14612,577	12135,260	-3,844	-1,134
66,221	7,128	4,230	5390,045	22430,451	-12856,348	12151,126	-3,893	-1,014
66,718	7,128	4,230	3854,231	22469,403	-11023,941	12166,971	-3,949	-0,877
67,215	7,128	4,230	-2431,063	22508,356	-9114,993	12182,792	-3,259	-2,868
67,712	7,128	4,230	-3999,411	22547,308	-7129,138	12198,600	-3,334	-2,676
68,209	7,128	4,230	-5622,181	22586,261	-5066,013	12214,380	-3,412	-2,474
68,706	7,128	4,230	-7302,190	22625,214	-2925,255	12230,139	-3,493	-2,262
69,203	7,128	4,230	-9121,505	22664,166	-706,498	12245,879	-3,565	-2,079
69,700	7,128	4,230	-10998,047	22703,119	1590,620	12261,599	-3,640	-1,885
70,110	7,402	4,470	-12589,900	22595,987	3402,077	12200,802	-3,507	-1,755
70,520	7,675	4,711	-14224,448	22488,854	5006,938	12138,675	-3,348	-1,736
70,930	7,949	4,952	-15905,435	22381,722	6406,559	12076,589	-3,167	-1,813
71,340	8,223	5,192	-17636,605	22274,590	7603,665	12014,540	-2,966	-1,974
71,750	8,496	5,433	-19421,705	22167,458	8600,981	11952,535	-2,749	-2,208
72,160	8,770	5,674	-21264,477	22060,326	9401,233	11890,568	-2,519	-2,506
72,570	9,044	5,914	-23168,667	21953,194	10007,147	11828,639	-2,276	-2,861
72,980	9,317	6,155	-25138,020	21846,062	10421,446	11766,753	-2,022	-3,268
73,390	9,591	6,396	-27176,279	21738,929	10646,858	11704,907	-1,758	-3,719
73,800	9,865	6,636	-29287,189	21631,797	10686,108	11643,103	-1,486	-4,212
74,210	9,591	6,396	-27162,190	21524,665	10541,920	11585,175	-1,714	-3,760
74,620	9,317	6,155	-25115,031	21417,533	10217,021	11527,247	-1,930	-3,353
75,030	9,044	5,914	-23136,779	21310,401	9714,136	11469,325	-2,134	-2,992
75,440	8,770	5,674	-21223,689	21203,269	9035,990	11411,404	-2,325	-2,681
75,850	8,496	5,433	-19372,017	21096,137	8185,308	11353,484	-2,504	-2,424
76,260	8,223	5,192	-17578,018	20989,005	7164,817	11295,569	-2,667	-2,225
76,670	7,949	4,952	-15837,948	20881,872	5977,241	11237,651	-2,814	-2,091
77,080	7,675	4,711	-14148,061	20774,740	4625,306	11179,738	-2,944	-2,029
77,490	7,402	4,470	-12504,614	20667,608	3111,738	11121,829	-3,053	-2,047
77,900	7,128	4,230	-10903,861	20560,476	1439,261	11063,918	-3,139	-2,156
78,356	7,128	4,230	-9171,623	20518,508	-468,973	11039,903	-3,102	-2,241
78,811	7,128	4,230	-7487,471	20476,541	-2317,014	11017,087	-3,066	-2,321
79,267	7,128	4,230	-5905,562	20434,573	-4104,031	10994,308	-3,024	-2,418
79,722	7,128	4,230	-4394,249	20392,605	-5830,275	10971,487	-2,980	-2,521
80,178	7,128	4,230	-2928,664	20350,638	-7496,151	10948,709	-2,939	-2,616
80,633	7,128	4,230	3024,528	20308,670	-9101,915	10925,891	-3,622	-0,641
81,089	7,128	4,230	4427,669	20266,702	-10647,968	10903,107	-3,589	-0,711

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
81,544	7,128	4,230	5827,849	20224,735	-12134,570	10880,289	-3,566	-0,755
82,000	7,128	4,230	7179,942	20182,767	-13562,118	10857,498	-3,545	-0,794
82,492	7,128	4,230	8527,774	20232,164	-15108,603	10883,827	-3,524	-0,879
82,984	7,128	4,230	9878,297	20281,561	-16600,559	10910,151	-3,513	-0,938
83,476	7,128	4,230	11191,696	20330,957	-18037,534	10936,473	-3,504	-0,990
83,968	7,128	4,230	12409,598	20380,354	-19419,076	10962,788	-3,489	-1,059
84,460	7,128	4,230	13570,173	20429,751	-20744,732	10989,097	-3,474	-1,129
84,952	7,128	4,230	14712,816	20479,147	-22014,050	11015,408	-3,465	-1,182
85,444	7,128	4,230	15779,739	20528,544	-23226,578	11041,717	-3,453	-1,243
85,936	7,128	4,230	16751,165	20577,941	-24381,862	11068,015	-3,435	-1,322
86,428	7,128	4,230	17721,037	20627,337	-25479,452	11094,316	-3,425	-1,375
86,920	7,128	4,230	18636,740	20676,734	-26518,894	11120,607	-3,417	-1,426
87,412	7,128	4,230	19437,315	20726,131	-27499,735	11146,901	-3,399	-1,503
87,904	7,128	4,230	20215,210	20775,528	-28421,524	11173,183	-3,387	-1,564
88,396	7,128	4,230	20959,984	20824,924	-29283,809	11199,465	-3,380	-1,612
88,888	7,128	4,230	21609,260	20874,321	-30086,135	11225,746	-3,367	-1,677
89,380	7,128	4,230	22194,388	20923,718	-30828,052	11252,021	-3,353	-1,743
89,872	7,128	4,230	22768,169	20973,114	-31509,107	11278,288	-3,347	-1,787
90,364	7,128	4,230	23266,232	21022,511	-32128,848	11304,560	-3,338	-1,837
90,856	7,128	4,230	23668,796	21071,908	-32686,821	11330,822	-3,325	-1,903
91,348	7,128	4,230	24060,770	21121,305	-33182,575	11357,080	-3,319	-1,945
91,840	7,128	4,230	24407,429	21170,701	-33615,657	11383,334	-3,317	-1,980
92,332	7,128	4,230	24638,959	21220,098	-33985,615	11409,584	-3,306	-2,038
92,824	7,128	4,230	24837,275	21269,495	-34291,996	11435,835	-3,300	-2,082
93,316	7,128	4,230	25012,872	21318,891	-34534,348	11462,076	-3,300	-2,107
93,808	7,128	4,230	25092,973	21368,288	-34712,219	11488,313	-3,296	-2,147
94,300	7,128	4,230	25097,398	21417,685	-34825,155	11514,550	-3,289	-2,191
94,797	7,128	4,230	25101,684	21456,637	-34855,075	11535,164	-3,294	-2,199
95,294	7,128	4,230	25027,870	21495,590	-34817,916	11555,769	-3,297	-2,212
95,791	7,128	4,230	24858,065	21534,542	-34713,315	11576,374	-3,295	-2,237
96,288	7,128	4,230	24666,736	21573,495	-34540,908	11596,976	-3,301	-2,242
96,785	7,128	4,230	24436,307	21612,447	-34300,332	11617,573	-3,311	-2,234
97,282	7,128	4,230	24091,995	21651,400	-33991,221	11638,166	-3,315	-2,246
97,779	7,128	4,230	23705,213	21690,353	-33613,212	11658,756	-3,322	-2,246
98,276	7,128	4,230	23303,284	21729,305	-33165,941	11679,340	-3,338	-2,221
98,773	7,128	4,230	22799,401	21768,258	-32649,045	11699,922	-3,349	-2,211
99,270	7,128	4,230	22223,383	21807,210	-32062,158	11720,495	-3,359	-2,203

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
99,767	7,128	4,230	21641,159	21846,163	-31404,918	11741,066	-3,380	-2,165
100,264	7,128	4,230	20980,731	21885,115	-30676,959	11761,636	-3,399	-2,130
100,761	7,128	4,230	20230,275	21924,068	-29877,919	11782,205	-3,416	-2,104
101,258	7,128	4,230	19453,552	21963,020	-29007,432	11802,764	-3,440	-2,057
101,755	7,128	4,230	18636,639	22001,973	-28065,136	11823,319	-3,468	-1,996
102,252	7,128	4,230	17711,808	22040,925	-27050,665	11843,870	-3,491	-1,952
102,748	7,128	4,230	16741,314	22079,878	-25963,680	11864,444	-3,519	-1,895
103,245	7,128	4,230	15759,050	22118,831	-24803,771	11884,987	-3,556	-1,810
103,742	7,128	4,230	14668,868	22157,783	-23570,596	11905,529	-3,587	-1,741
104,239	7,128	4,230	13512,513	22196,736	-22263,791	11926,066	-3,620	-1,668
104,736	7,128	4,230	12349,043	22235,688	-20882,992	11946,600	-3,663	-1,566
105,233	7,128	4,230	11102,552	22274,641	-19427,835	11967,127	-3,705	-1,467
105,730	7,128	4,230	9771,997	22313,593	-17897,957	11987,652	-3,746	-1,372
106,227	7,128	4,230	8420,149	22352,546	-16292,992	12008,170	-3,795	-1,253
106,724	7,128	4,230	7036,483	22391,498	-14612,577	12028,688	-3,851	-1,114
107,221	7,128	4,230	5550,862	22430,451	-12856,348	12049,197	-3,903	-0,987
107,718	7,128	4,230	4024,341	22469,403	-11023,941	12069,708	-3,960	-0,844
108,215	7,128	4,230	-2330,849	22508,356	-9114,993	12090,208	-3,260	-2,864
108,712	7,128	4,230	-3908,676	22547,308	-7129,138	12110,704	-3,334	-2,675
109,209	7,128	4,230	-5540,925	22586,261	-5066,013	12131,199	-3,412	-2,475
109,706	7,128	4,230	-7234,915	22625,214	-2925,255	12151,690	-3,492	-2,267
110,203	7,128	4,230	-9064,337	22664,166	-706,498	12172,177	-3,562	-2,086
110,700	7,128	4,230	-10950,986	22703,119	1590,620	12192,656	-3,636	-1,895
111,110	7,402	4,470	-12551,177	22595,987	3402,077	12136,202	-3,503	-1,766
111,520	7,675	4,711	-14194,062	22488,854	5006,938	12078,377	-3,344	-1,748
111,930	7,949	4,952	-15883,387	22381,722	6406,559	12020,554	-3,162	-1,826
112,340	8,223	5,192	-17622,896	22274,590	7603,665	11962,734	-2,961	-1,988
112,750	8,496	5,433	-19416,333	22167,458	8600,981	11904,915	-2,744	-2,223
113,160	8,770	5,674	-21267,444	22060,326	9401,233	11847,096	-2,513	-2,522
113,570	9,044	5,914	-23179,972	21953,194	10007,147	11789,282	-2,270	-2,878
113,980	9,317	6,155	-25157,662	21846,062	10421,446	11731,467	-2,016	-3,285
114,390	9,591	6,396	-27204,259	21738,929	10646,858	11673,659	-1,752	-3,737
114,800	9,865	6,636	-29323,507	21631,797	10686,108	11615,851	-1,480	-4,231
115,210	9,591	6,396	-27203,446	21524,665	10541,920	11558,224	-1,706	-3,781
115,620	9,317	6,155	-25156,406	21417,533	10217,021	11500,595	-1,922	-3,375
116,030	9,044	5,914	-23178,273	21310,401	9714,136	11442,967	-2,126	-3,015

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
116,440	8,770	5,674	-21265,301	21203,269	9035,990	11385,341	-2,317	-2,704
116,850	8,496	5,433	-19413,748	21096,137	8185,308	11327,713	-2,495	-2,448
117,260	8,223	5,192	-17619,867	20989,005	7164,817	11270,086	-2,658	-2,250
117,670	7,949	4,952	-15879,915	20881,872	5977,241	11212,461	-2,805	-2,118
118,080	7,675	4,711	-14190,147	20774,740	4625,306	11154,833	-2,934	-2,057
118,490	7,402	4,470	-12546,818	20667,608	3111,738	11097,210	-3,043	-2,076
118,900	7,128	4,230	-10946,184	20560,476	1439,261	11039,584	-3,129	-2,187
119,356	7,128	4,230	-9214,078	20518,508	-468,973	11015,790	-3,091	-2,272
119,811	7,128	4,230	-7530,058	20476,541	-2317,014	10993,199	-3,055	-2,351
120,267	7,128	4,230	-5950,714	20434,573	-4104,031	10970,640	-3,013	-2,450
120,722	7,128	4,230	-4439,492	20392,605	-5830,275	10948,044	-2,969	-2,552
121,178	7,128	4,230	-2973,997	20350,638	-7496,151	10925,481	-2,928	-2,648
121,633	7,128	4,230	3263,821	20308,670	-9101,915	10902,881	-3,656	-0,543
122,089	7,128	4,230	4661,820	20266,702	-10647,968	10880,319	-3,623	-0,615
122,544	7,128	4,230	6056,755	20224,735	-12134,570	10857,716	-3,599	-0,661
123,000	7,128	4,230	7403,603	20182,767	-13562,118	10835,148	-3,577	-0,702
123,492	7,128	4,230	8746,542	20232,164	-15108,603	10861,604	-3,555	-0,790
123,984	7,128	4,230	10091,301	20281,561	-16600,559	10888,060	-3,543	-0,851
124,476	7,128	4,230	11398,861	20330,957	-18037,534	10914,514	-3,534	-0,905
124,968	7,128	4,230	12610,925	20380,354	-19419,076	10940,960	-3,518	-0,977
125,460	7,128	4,230	13765,711	20429,751	-20744,732	10967,407	-3,502	-1,050
125,952	7,128	4,230	14902,514	20479,147	-22014,050	10993,852	-3,492	-1,105
126,444	7,128	4,230	15963,598	20528,544	-23226,578	11020,291	-3,479	-1,169
126,936	7,128	4,230	16929,185	20577,941	-24381,862	11046,729	-3,460	-1,250
127,428	7,128	4,230	17893,246	20627,337	-25479,452	11073,167	-3,450	-1,306
127,920	7,128	4,230	18803,110	20676,734	-26518,894	11099,597	-3,440	-1,360
128,412	7,128	4,230	19597,845	20726,131	-27499,735	11126,026	-3,421	-1,440
128,904	7,128	4,230	20369,912	20775,528	-28421,524	11152,457	-3,409	-1,503
129,396	7,128	4,230	21108,846	20824,924	-29283,809	11178,880	-3,400	-1,554
129,888	7,128	4,230	21752,282	20874,321	-30086,135	11205,297	-3,386	-1,621
130,380	7,128	4,230	22331,571	20923,718	-30828,052	11231,717	-3,371	-1,690
130,872	7,128	4,230	22899,512	20973,114	-31509,107	11258,131	-3,364	-1,736
131,364	7,128	4,230	23391,734	21022,511	-32128,848	11284,540	-3,355	-1,789
131,856	7,128	4,230	23788,458	21071,908	-32686,821	11310,951	-3,341	-1,858
132,348	7,128	4,230	24174,583	21121,305	-33182,575	11337,357	-3,334	-1,903
132,840	7,128	4,230	24515,401	21170,701	-33615,657	11363,759	-3,331	-1,939

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
133,332	7,128	4,230	24741,092	21220,098	-33985,615	11390,157	-3,319	-2,000
133,824	7,128	4,230	24933,553	21269,495	-34291,996	11416,552	-3,312	-2,047
134,316	7,128	4,230	25103,311	21318,891	-34534,348	11442,949	-3,311	-2,075
134,808	7,128	4,230	25177,571	21368,288	-34712,219	11469,338	-3,306	-2,117
135,300	7,128	4,230	25176,138	21417,685	-34825,155	11495,720	-3,299	-2,164
135,797	7,128	4,230	25174,527	21456,637	-34855,075	11516,499	-3,303	-2,174
136,294	7,128	4,230	25094,815	21495,590	-34817,916	11537,270	-3,305	-2,190
136,791	7,128	4,230	24919,113	21534,542	-34713,315	11558,044	-3,302	-2,218
137,288	7,128	4,230	24721,866	21573,495	-34540,908	11578,807	-3,307	-2,225
137,785	7,128	4,230	24485,540	21612,447	-34300,332	11599,574	-3,316	-2,219
138,282	7,128	4,230	24135,332	21651,400	-33991,221	11620,332	-3,319	-2,234
138,779	7,128	4,230	23742,633	21690,353	-33613,212	11641,091	-3,325	-2,237
139,276	7,128	4,230	23334,809	21729,305	-33165,941	11661,841	-3,340	-2,215
139,773	7,128	4,230	22825,030	21768,258	-32649,045	11682,595	-3,350	-2,208
140,270	7,128	4,230	22243,116	21807,210	-32062,158	11703,339	-3,360	-2,201
140,767	7,128	4,230	21654,980	21846,163	-31404,918	11724,083	-3,379	-2,166
141,264	7,128	4,230	20988,657	21885,115	-30676,959	11744,822	-3,398	-2,134
141,761	7,128	4,230	20232,307	21924,068	-29877,919	11765,565	-3,414	-2,110
142,258	7,128	4,230	19449,676	21963,020	-29007,432	11786,296	-3,436	-2,066
142,755	7,128	4,230	18626,870	22001,973	-28065,136	11807,026	-3,464	-2,008
143,252	7,128	4,230	17696,146	22040,925	-27050,665	11827,752	-3,486	-1,966
143,748	7,128	4,230	16719,750	22079,878	-25963,680	11848,500	-3,513	-1,912
144,245	7,128	4,230	15731,594	22118,831	-24803,771	11869,221	-3,549	-1,829
144,742	7,128	4,230	14635,521	22157,783	-23570,596	11889,939	-3,579	-1,763
145,239	7,128	4,230	13473,275	22196,736	-22263,791	11910,652	-3,611	-1,693
145,736	7,128	4,230	12303,910	22235,688	-20882,992	11931,362	-3,654	-1,593
146,233	7,128	4,230	11051,529	22274,641	-19427,835	11952,070	-3,695	-1,497
146,730	7,128	4,230	9715,085	22313,593	-17897,957	11972,774	-3,734	-1,405
147,227	7,128	4,230	8357,722	22352,546	-16292,992	11993,475	-3,783	-1,288
147,724	7,128	4,230	6970,309	22391,498	-14612,577	12014,169	-3,838	-1,151
148,221	7,128	4,230	5480,942	22430,451	-12856,348	12034,867	-3,889	-1,025
148,718	7,128	4,230	3950,680	22469,403	-11023,941	12055,554	-3,946	-0,884
149,215	7,128	4,230	-2382,641	22508,356	-9114,993	12076,239	-3,250	-2,894
149,712	7,128	4,230	-3962,584	22547,308	-7129,138	12096,921	-3,323	-2,706
150,209	7,128	4,230	-5596,949	22586,261	-5066,013	12117,602	-3,400	-2,506
150,706	7,128	4,230	-7293,391	22625,214	-2925,255	12138,276	-3,480	-2,300

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
151,203	7,128	4,230	-9124,974	22664,166	-706,498	12158,946	-3,551	-2,120
151,700	7,128	4,230	-11013,784	22703,119	1590,620	12179,616	-3,624	-1,930
152,110	7,402	4,470	-12615,758	22595,987	3402,077	12123,393	-3,492	-1,799
152,520	7,675	4,711	-14260,427	22488,854	5006,938	12065,802	-3,332	-1,780
152,930	7,949	4,952	-15951,535	22381,722	6406,559	12008,206	-3,151	-1,858
153,340	8,223	5,192	-17692,827	22274,590	7603,665	11950,616	-2,951	-2,018
153,750	8,496	5,433	-19488,047	22167,458	8600,981	11893,024	-2,734	-2,252
154,160	8,770	5,674	-21340,940	22060,326	9401,233	11835,433	-2,503	-2,551
154,570	9,044	5,914	-23255,251	21953,194	10007,147	11777,842	-2,260	-2,906
154,980	9,317	6,155	-25234,725	21846,062	10421,446	11720,249	-2,006	-3,312
155,390	9,591	6,396	-27283,105	21738,929	10646,858	11662,661	-1,742	-3,764
155,800	9,865	6,636	-29404,137	21631,797	10686,108	11605,072	-1,470	-4,257
156,210	9,591	6,396	-27280,953	21524,665	10541,920	11547,924	-1,697	-3,807
156,620	9,317	6,155	-25230,421	21417,533	10217,021	11490,773	-1,913	-3,401
157,030	9,044	5,914	-23248,795	21310,401	9714,136	11433,618	-2,117	-3,041
157,440	8,770	5,674	-21332,331	21203,269	9035,990	11376,459	-2,308	-2,730
157,850	8,496	5,433	-19477,286	21096,137	8185,308	11319,296	-2,486	-2,473
158,260	8,223	5,192	-17679,913	20989,005	7164,817	11262,127	-2,650	-2,275
158,670	7,949	4,952	-15936,469	20881,872	5977,241	11204,956	-2,797	-2,142
159,080	7,675	4,711	-14243,208	20774,740	4625,306	11147,782	-2,926	-2,081
159,490	7,402	4,470	-12596,387	20667,608	3111,738	11090,604	-3,034	-2,100
159,900	7,128	4,230	-10992,261	20560,476	1439,261	11033,422	-3,120	-2,210
160,356	7,128	4,230	-9256,274	20518,508	-468,973	11010,094	-3,083	-2,294
160,811	7,128	4,230	-7568,374	20476,541	-2317,014	10987,963	-3,048	-2,371
161,267	7,128	4,230	-5985,345	20434,573	-4104,031	10965,869	-3,006	-2,468
161,722	7,128	4,230	-4470,236	20392,605	-5830,275	10943,731	-2,963	-2,568
162,178	7,128	4,230	-3000,856	20350,638	-7496,151	10921,631	-2,923	-2,662
162,633	7,128	4,230	3220,478	20308,670	-9101,915	10899,486	-3,649	-0,564
163,089	7,128	4,230	4623,982	20266,702	-10647,968	10877,374	-3,617	-0,633
163,544	7,128	4,230	6024,413	20224,735	-12134,570	10855,228	-3,594	-0,677
164,000	7,128	4,230	7376,757	20182,767	-13562,118	10833,106	-3,572	-0,715
164,492	7,128	4,230	8725,649	20232,164	-15108,603	10860,043	-3,552	-0,800
164,984	7,128	4,230	10075,767	20281,561	-16600,559	10886,979	-3,540	-0,859
165,476	7,128	4,230	11388,683	20330,957	-18037,534	10913,912	-3,532	-0,910
165,968	7,128	4,230	12606,102	20380,354	-19419,076	10940,846	-3,517	-0,980
166,460	7,128	4,230	13766,246	20429,751	-20744,732	10967,778	-3,502	-1,050

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
166,952	7,128	4,230	14908,404	20479,147	-22014,050	10994,710	-3,493	-1,102
167,444	7,128	4,230	15974,843	20528,544	-23226,578	11021,644	-3,481	-1,163
167,936	7,128	4,230	16945,784	20577,941	-24381,862	11048,573	-3,463	-1,242
168,428	7,128	4,230	17915,202	20627,337	-25479,452	11075,506	-3,453	-1,295
168,920	7,128	4,230	18830,420	20676,734	-26518,894	11102,436	-3,445	-1,346
169,412	7,128	4,230	19630,510	20726,131	-27499,735	11129,369	-3,427	-1,423
169,904	7,128	4,230	20407,932	20775,528	-28421,524	11156,298	-3,415	-1,484
170,396	7,128	4,230	21152,220	20824,924	-29283,809	11183,226	-3,408	-1,532
170,888	7,128	4,230	21801,010	20874,321	-30086,135	11210,155	-3,395	-1,597
171,380	7,128	4,230	22385,653	20923,718	-30828,052	11237,081	-3,381	-1,663
171,872	7,128	4,230	22958,948	20973,114	-31509,107	11264,007	-3,375	-1,707
172,364	7,128	4,230	23456,524	21022,511	-32128,848	11290,935	-3,367	-1,757
172,856	7,128	4,230	23858,603	21071,908	-32686,821	11317,860	-3,353	-1,823
173,348	7,128	4,230	24250,080	21121,305	-33182,575	11344,787	-3,348	-1,865
173,840	7,128	4,230	24596,253	21170,701	-33615,657	11371,709	-3,345	-1,899
174,332	7,128	4,230	24827,298	21220,098	-33985,615	11398,635	-3,334	-1,957
174,824	7,128	4,230	25025,111	21269,495	-34291,996	11425,558	-3,328	-2,001
175,316	7,128	4,230	25200,223	21318,891	-34534,348	11452,478	-3,328	-2,026
175,808	7,128	4,230	25279,838	21368,288	-34712,219	11479,400	-3,324	-2,066
176,300	7,128	4,230	25283,757	21417,685	-34825,155	11506,319	-3,318	-2,110
176,797	7,128	4,230	25287,554	21456,637	-34855,075	11527,633	-3,323	-2,118
177,294	7,128	4,230	25213,250	21495,590	-34817,916	11548,946	-3,325	-2,130
177,791	7,128	4,230	25042,957	21534,542	-34713,315	11570,252	-3,324	-2,156
178,288	7,128	4,230	24851,116	21573,495	-34540,908	11591,564	-3,330	-2,161
178,785	7,128	4,230	24620,198	21612,447	-34300,332	11612,868	-3,340	-2,152
179,282	7,128	4,230	24275,398	21651,400	-33991,221	11634,174	-3,343	-2,164
179,779	7,128	4,230	23888,106	21690,353	-33613,212	11655,478	-3,351	-2,164
180,276	7,128	4,230	23485,690	21729,305	-33165,941	11676,780	-3,367	-2,139
180,773	7,128	4,230	22981,321	21768,258	-32649,045	11698,081	-3,377	-2,129
181,270	7,128	4,230	22404,815	21807,210	-32062,158	11719,381	-3,388	-2,120
181,767	7,128	4,230	21822,086	21846,163	-31404,918	11740,678	-3,409	-2,082
182,264	7,128	4,230	21161,172	21885,115	-30676,959	11761,976	-3,428	-2,048
182,761	7,128	4,230	20410,230	21924,068	-29877,919	11783,271	-3,445	-2,021
183,258	7,128	4,230	19633,008	21963,020	-29007,432	11804,565	-3,468	-1,975
183,755	7,128	4,230	18815,611	22001,973	-28065,136	11825,858	-3,497	-1,914
184,252	7,128	4,230	17890,296	22040,925	-27050,665	11847,145	-3,520	-1,869
184,748	7,128	4,230	16919,310	22079,878	-25963,680	11868,462	-3,548	-1,812

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
185,245	7,128	4,230	15936,563	22118,831	-24803,771	11889,749	-3,585	-1,727
185,742	7,128	4,230	14845,899	22157,783	-23570,596	11911,038	-3,616	-1,658
186,239	7,128	4,230	13689,062	22196,736	-22263,791	11932,321	-3,649	-1,585
186,736	7,128	4,230	12525,109	22235,688	-20882,992	11953,607	-3,692	-1,482
187,233	7,128	4,230	11278,137	22274,641	-19427,835	11974,890	-3,735	-1,383
187,730	7,128	4,230	9947,102	22313,593	-17897,957	11996,172	-3,775	-1,288
188,227	7,128	4,230	8595,311	22352,546	-16292,992	12017,448	-3,824	-1,169
188,724	7,128	4,230	7213,894	22391,498	-14612,577	12038,728	-3,881	-1,029
189,221	7,128	4,230	5730,523	22430,451	-12856,348	12060,002	-3,933	-0,900
189,718	7,128	4,230	4206,264	22469,403	-11023,941	12081,275	-3,991	-0,756
190,215	7,128	4,230	-2142,310	22508,356	-9114,993	12102,549	-3,292	-2,773
190,712	7,128	4,230	-3718,013	22547,308	-7129,138	12123,820	-3,367	-2,582
191,209	7,128	4,230	-5348,138	22586,261	-5066,013	12145,090	-3,445	-2,381
191,706	7,128	4,230	-7040,541	22625,214	-2925,255	12166,354	-3,525	-2,172
192,203	7,128	4,230	-8867,891	22664,166	-706,498	12187,621	-3,596	-1,990
192,700	7,128	4,230	-10752,468	22703,119	1590,620	12208,884	-3,671	-1,798
193,110	7,402	4,470	-12350,950	22595,987	3402,077	12152,973	-3,536	-1,672
193,520	7,675	4,711	-13992,126	22488,854	5006,938	12095,687	-3,375	-1,658
193,930	7,949	4,952	-15679,742	22381,722	6406,559	12038,397	-3,192	-1,740
194,340	8,223	5,192	-17417,541	22274,590	7603,665	11981,103	-2,990	-1,905
194,750	8,496	5,433	-19209,270	22167,458	8600,981	11923,806	-2,772	-2,143
195,160	8,770	5,674	-21058,671	22060,326	9401,233	11866,503	-2,540	-2,444
195,570	9,044	5,914	-22969,489	21953,194	10007,147	11809,198	-2,296	-2,803
195,980	9,317	6,155	-24945,471	21846,062	10421,446	11751,889	-2,041	-3,212
196,390	9,591	6,396	-26990,358	21738,929	10646,858	11694,576	-1,777	-3,667
196,800	9,865	6,636	-29108,269	21631,797	10686,108	11637,260	-1,504	-4,162
197,210	9,591	6,396	-26999,327	21524,665	10541,920	11578,427	-1,730	-3,713
197,620	9,317	6,155	-24963,038	21417,533	10217,021	11519,610	-1,945	-3,308
198,030	9,044	5,914	-22995,655	21310,401	9714,136	11460,801	-2,149	-2,949
198,440	8,770	5,674	-21093,434	21203,269	9035,990	11402,009	-2,340	-2,640
198,850	8,496	5,433	-19252,632	21096,137	8185,308	11343,223	-2,517	-2,385
199,260	8,223	5,192	-17469,502	20989,005	7164,817	11284,451	-2,680	-2,189
199,670	7,949	4,952	-15740,300	20881,872	5977,241	11225,688	-2,826	-2,058
200,080	7,675	4,711	-14061,283	20774,740	4625,306	11166,941	-2,954	-1,999
200,490	7,402	4,470	-12428,705	20667,608	3111,738	11108,203	-3,062	-2,021
200,900	7,128	4,230	-10838,821	20560,476	1439,261	11049,472	-3,147	-2,133

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
201,356	7,128	4,230	-9118,660	20518,508	-468,973	11024,500	-3,108	-2,224
201,811	7,128	4,230	-7446,585	20476,541	-2317,014	11000,730	-3,070	-2,309
202,267	7,128	4,230	-5879,683	20434,573	-4104,031	10977,008	-3,025	-2,415
202,722	7,128	4,230	-4380,358	20392,605	-5830,275	10953,244	-2,979	-2,523
203,178	7,128	4,230	-2926,762	20350,638	-7496,151	10929,521	-2,936	-2,624
203,633	7,128	4,230	3303,588	20308,670	-9101,915	10905,765	-3,663	-0,524
204,089	7,128	4,230	4689,819	20266,702	-10647,968	10882,048	-3,628	-0,601
204,544	7,128	4,230	6072,972	20224,735	-12134,570	10858,304	-3,602	-0,653
205,000	7,128	4,230	7408,037	20182,767	-13562,118	10834,591	-3,577	-0,700
205,492	7,128	4,230	8738,129	20232,164	-15108,603	10859,812	-3,554	-0,794
205,984	7,128	4,230	10067,465	20281,561	-16600,559	10885,024	-3,539	-0,864
206,476	7,128	4,230	11359,599	20330,957	-18037,534	10910,230	-3,527	-0,925
206,968	7,128	4,230	12556,235	20380,354	-19419,076	10935,425	-3,508	-1,005
207,460	7,128	4,230	13695,590	20429,751	-20744,732	10960,612	-3,489	-1,085
207,952	7,128	4,230	14816,964	20479,147	-22014,050	10985,787	-3,477	-1,148
208,444	7,128	4,230	15862,619	20528,544	-23226,578	11010,959	-3,461	-1,219
208,936	7,128	4,230	16812,776	20577,941	-24381,862	11036,117	-3,439	-1,308
209,428	7,128	4,230	17761,398	20627,337	-25479,452	11061,269	-3,427	-1,372
209,920	7,128	4,230	18655,830	20676,734	-26518,894	11086,410	-3,414	-1,433
210,412	7,128	4,230	19435,135	20726,131	-27499,735	11111,544	-3,393	-1,520
210,904	7,128	4,230	20191,755	20775,528	-28421,524	11136,668	-3,378	-1,591
211,396	7,128	4,230	20915,256	20824,924	-29283,809	11161,782	-3,367	-1,650
211,888	7,128	4,230	21543,260	20874,321	-30086,135	11186,888	-3,350	-1,725
212,380	7,128	4,230	22107,097	20923,718	-30828,052	11211,985	-3,332	-1,801
212,872	7,128	4,230	22659,604	20973,114	-31509,107	11237,074	-3,323	-1,855
213,364	7,128	4,230	23136,392	21022,511	-32128,848	11262,151	-3,311	-1,916
213,856	7,128	4,230	23517,682	21071,908	-32686,821	11287,222	-3,294	-1,992
214,348	7,128	4,230	23888,350	21121,305	-33182,575	11312,283	-3,285	-2,044
214,840	7,128	4,230	24213,733	21170,701	-33615,657	11337,332	-3,279	-2,089
215,332	7,128	4,230	24423,989	21220,098	-33985,615	11362,376	-3,264	-2,157
215,824	7,128	4,230	24600,991	21269,495	-34291,996	11387,409	-3,254	-2,212
216,316	7,128	4,230	24755,313	21318,891	-34534,348	11412,433	-3,251	-2,247
216,808	7,128	4,230	24814,138	21368,288	-34712,219	11437,450	-3,243	-2,297
217,300	7,128	4,230	24797,247	21417,685	-34825,155	11462,456	-3,233	-2,352
217,797	7,128	4,230	24780,042	21456,637	-34855,075	11481,849	-3,234	-2,370
218,294	7,128	4,230	24684,738	21495,590	-34817,916	11501,235	-3,234	-2,393

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
218,791	7,128	4,230	24493,443	21534,542	-34713,315	11520,611	-3,228	-2,429
219,288	7,128	4,230	24280,585	21573,495	-34540,908	11539,981	-3,231	-2,444
219,785	7,128	4,230	24028,665	21612,447	-34300,332	11559,343	-3,237	-2,446
220,282	7,128	4,230	23662,864	21651,400	-33991,221	11578,694	-3,237	-2,468
220,779	7,128	4,230	23254,561	21690,353	-33613,212	11598,040	-3,240	-2,479
221,276	7,128	4,230	22831,143	21729,305	-33165,941	11617,376	-3,253	-2,464
221,773	7,128	4,230	22305,772	21768,258	-32649,045	11636,703	-3,260	-2,465
222,270	7,128	4,230	21708,263	21807,210	-32062,158	11656,024	-3,267	-2,466
222,767	7,128	4,230	21104,533	21846,163	-31404,918	11675,338	-3,284	-2,439
223,264	7,128	4,230	20422,617	21885,115	-30676,959	11694,642	-3,300	-2,414
223,761	7,128	4,230	19650,674	21924,068	-29877,919	11713,938	-3,313	-2,399
224,258	7,128	4,230	18852,463	21963,020	-29007,432	11733,224	-3,333	-2,363
224,755	7,128	4,230	18014,064	22001,973	-28065,136	11752,505	-3,358	-2,312
225,252	7,128	4,230	17067,747	22040,925	-27050,665	11771,779	-3,377	-2,278
225,748	7,128	4,230	16075,788	22079,878	-25963,680	11791,064	-3,401	-2,231
226,245	7,128	4,230	15072,041	22118,831	-24803,771	11810,321	-3,434	-2,157
226,742	7,128	4,230	13960,375	22157,783	-23570,596	11829,570	-3,462	-2,098
227,239	7,128	4,230	12782,537	22196,736	-22263,791	11848,808	-3,491	-2,036
227,736	7,128	4,230	11597,634	22235,688	-20882,992	11868,040	-3,531	-1,943
228,233	7,128	4,230	10329,662	22274,641	-19427,835	11887,264	-3,569	-1,855
228,730	7,128	4,230	8977,627	22313,593	-17897,957	11906,478	-3,606	-1,771
229,227	7,128	4,230	7605,722	22352,546	-16292,992	11925,684	-3,652	-1,661
229,724	7,128	4,230	6203,481	22391,498	-14612,577	11944,881	-3,705	-1,531
230,221	7,128	4,230	4699,286	22430,451	-12856,348	11964,074	-3,753	-1,413
230,718	7,128	4,230	3154,304	22469,403	-11023,941	11983,255	-3,808	-1,279
231,215	7,128	4,230	-2927,564	22508,356	-9114,993	12002,425	-3,151	-3,176
231,712	7,128	4,230	-4518,469	22547,308	-7129,138	12021,591	-3,223	-2,993
232,209	7,128	4,230	-6163,796	22586,261	-5066,013	12040,750	-3,298	-2,799
232,706	7,128	4,230	-7873,868	22625,214	-2925,255	12059,895	-3,375	-2,600
233,203	7,128	4,230	-9716,464	22664,166	-706,498	12079,034	-3,444	-2,426
233,700	7,128	4,230	-11616,288	22703,119	1590,620	12098,166	-3,515	-2,241
234,110	7,402	4,470	-13227,348	22595,987	3402,077	12041,180	-3,387	-2,098
234,520	7,675	4,711	-14881,103	22488,854	5006,938	11982,831	-3,232	-2,068
234,930	7,949	4,952	-16581,297	22381,722	6406,559	11924,497	-3,054	-2,135
235,340	8,223	5,192	-18331,675	22274,590	7603,665	11866,173	-2,857	-2,287
235,750	8,496	5,433	-20135,981	22167,458	8600,981	11807,861	-2,643	-2,512

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
236,160	8,770	5,674	-21997,961	22060,326	9401,233	11749,561	-2,415	-2,803
236,570	9,044	5,914	-23921,358	21953,194	10007,147	11691,269	-2,174	-3,151
236,980	9,317	6,155	-25909,917	21846,062	10421,446	11632,989	-1,922	-3,551
237,390	9,591	6,396	-27967,383	21738,929	10646,858	11574,719	-1,661	-3,997
237,800	9,865	6,636	-30102,692	21631,797	10686,108	11516,466	-1,390	-4,486
238,210	9,591	6,396	-27946,695	21524,665	10541,920	11463,924	-1,618	-4,033
238,620	9,317	6,155	-25863,349	21417,533	10217,021	11411,340	-1,835	-3,624
239,030	9,044	5,914	-23848,910	21310,401	9714,136	11358,710	-2,040	-3,260
239,440	8,770	5,674	-21899,633	21203,269	9035,990	11306,032	-2,233	-2,946
239,850	8,496	5,433	-20011,774	21096,137	8185,308	11253,309	-2,412	-2,686
240,260	8,223	5,192	-18181,589	20989,005	7164,817	11200,543	-2,576	-2,484
240,670	7,949	4,952	-16405,331	20881,872	5977,241	11147,732	-2,725	-2,347
241,080	7,675	4,711	-14679,258	20774,740	4625,306	11094,873	-2,856	-2,281
241,490	7,402	4,470	-12999,624	20667,608	3111,738	11041,971	-2,966	-2,295
241,900	7,128	4,230	-11362,684	20560,476	1439,261	10989,024	-3,054	-2,399
242,356	7,128	4,230	-9590,239	20518,508	-468,973	10970,200	-3,024	-2,464
242,811	7,128	4,230	-7865,880	20476,541	-2317,014	10952,557	-2,995	-2,522
243,267	7,128	4,230	-6250,725	20434,573	-4104,031	10934,933	-2,959	-2,603
243,722	7,128	4,230	-4698,540	20392,605	-5830,275	10917,249	-2,923	-2,684
244,178	7,128	4,230	-3192,084	20350,638	-7496,151	10899,579	-2,889	-2,759
244,633	7,128	4,230	3021,348	20308,670	-9101,915	10881,852	-3,614	-0,663
245,089	7,128	4,230	4477,662	20266,702	-10647,968	10864,138	-3,591	-0,706
245,544	7,128	4,230	5930,817	20224,735	-12134,570	10846,370	-3,577	-0,723
246,000	7,128	4,230	7335,885	20182,767	-13562,118	10828,613	-3,565	-0,736
246,492	7,128	4,230	8741,086	20232,164	-15108,603	10860,239	-3,554	-0,793
246,984	7,128	4,230	10138,704	20281,561	-16600,559	10891,885	-3,551	-0,828
247,476	7,128	4,230	11499,120	20330,957	-18037,534	10923,557	-3,551	-0,856
247,968	7,128	4,230	12764,039	20380,354	-19419,076	10955,251	-3,544	-0,901
248,460	7,128	4,230	13971,588	20429,751	-20744,732	10986,968	-3,538	-0,947
248,952	7,128	4,230	15161,223	20479,147	-22014,050	11018,706	-3,537	-0,976
249,444	7,128	4,230	16275,139	20528,544	-23226,578	11050,466	-3,533	-1,014
249,936	7,128	4,230	17293,558	20577,941	-24381,862	11082,251	-3,523	-1,068
250,428	7,128	4,230	18310,270	20627,337	-25479,452	11114,056	-3,522	-1,098
250,920	7,128	4,230	19272,943	20676,734	-26518,894	11145,884	-3,522	-1,125
251,412	7,128	4,230	20120,487	20726,131	-27499,735	11177,735	-3,513	-1,178
251,904	7,128	4,230	20945,127	20775,528	-28421,524	11209,608	-3,510	-1,215
252,396	7,128	4,230	21736,848	20824,924	-29283,809	11241,504	-3,510	-1,239

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
252,888	7,128	4,230	22433,072	20874,321	-30086,135	11273,421	-3,505	-1,280
253,380	7,128	4,230	23064,870	20923,718	-30828,052	11305,362	-3,500	-1,323
253,872	7,128	4,230	23685,579	20973,114	-31509,107	11337,325	-3,502	-1,342
254,364	7,128	4,230	24230,568	21022,511	-32128,848	11369,309	-3,502	-1,369
254,856	7,128	4,230	24680,061	21071,908	-32686,821	11401,316	-3,497	-1,411
255,348	7,128	4,230	25118,635	21121,305	-33182,575	11433,344	-3,500	-1,429
255,840	7,128	4,230	25512,204	21170,701	-33615,657	11465,396	-3,506	-1,439
256,332	7,128	4,230	25790,645	21220,098	-33985,615	11497,472	-3,503	-1,473
256,824	7,128	4,230	26035,541	21269,495	-34291,996	11529,568	-3,506	-1,494
257,316	7,128	4,230	26258,034	21318,891	-34534,348	11561,684	-3,514	-1,495
257,808	7,128	4,230	26385,030	21368,288	-34712,219	11593,825	-3,518	-1,510
258,300	7,128	4,230	26436,307	21417,685	-34825,155	11625,988	-3,521	-1,531
258,797	7,128	4,230	26487,691	21456,637	-34855,075	11652,554	-3,534	-1,514
259,294	7,128	4,230	26461,236	21495,590	-34817,916	11679,136	-3,545	-1,503
259,791	7,128	4,230	26338,790	21534,542	-34713,315	11705,739	-3,552	-1,504
260,288	7,128	4,230	26194,566	21573,495	-34540,908	11732,357	-3,566	-1,485
260,785	7,128	4,230	26011,488	21612,447	-34300,332	11758,990	-3,585	-1,452
261,282	7,128	4,230	25714,528	21651,400	-33991,221	11785,642	-3,597	-1,440
261,779	7,128	4,230	25374,945	21690,353	-33613,212	11812,310	-3,613	-1,416
262,276	7,128	4,230	25020,365	21729,305	-33165,941	11838,996	-3,637	-1,367
262,773	7,128	4,230	24563,831	21768,258	-32649,045	11865,699	-3,656	-1,333
263,270	7,128	4,230	24035,160	21807,210	-32062,158	11892,417	-3,675	-1,299
263,767	7,128	4,230	23500,278	21846,163	-31404,918	11919,152	-3,705	-1,237
264,264	7,128	4,230	22887,199	21885,115	-30676,959	11945,907	-3,733	-1,178
264,761	7,128	4,230	22184,093	21924,068	-29877,919	11972,675	-3,758	-1,127
265,258	7,128	4,230	21454,907	21963,020	-29007,432	11999,460	-3,790	-1,056
265,755	7,128	4,230	20685,351	22001,973	-28065,136	12026,265	-3,827	-0,971
266,252	7,128	4,230	19807,877	22040,925	-27050,665	12053,083	-3,859	-0,902
266,748	7,128	4,230	18885,171	22079,878	-25963,680	12079,941	-3,895	-0,820
267,245	7,128	4,230	17950,276	22118,831	-24803,771	12106,797	-3,940	-0,711
267,742	7,128	4,230	16907,464	22157,783	-23570,596	12133,668	-3,980	-0,618
268,239	7,128	4,230	15798,478	22196,736	-22263,791	12160,556	-4,022	-0,521
268,736	7,128	4,230	14683,125	22235,688	-20882,992	12187,462	-4,074	-0,393
269,233	7,128	4,230	13484,022	22274,641	-19427,835	12214,382	-4,124	-0,270
269,730	7,128	4,230	12200,855	22313,593	-17897,957	12241,318	-4,173	-0,151
270,227	7,128	4,230	10909,824	22352,546	-16292,992	12268,275	-4,233	-0,001
270,724	7,128	4,230	9576,744	22391,498	-14612,577	12295,245	-4,298	0,164

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
271,221	7,128	4,230	8141,710	22430,451	-12856,348	12322,232	-4,359	0,317
271,718	7,128	4,230	6667,310	22469,403	-11023,941	12349,239	-4,426	0,487
272,215	7,128	4,230	5175,217	22508,356	-9114,993	12376,258	-4,502	0,684
272,712	7,128	4,230	3569,242	22547,308	-7129,138	12403,294	-4,572	0,864
273,209	7,128	4,230	-2635,685	22586,261	-5066,013	12430,350	-3,922	-1,016
273,706	7,128	4,230	-4314,643	22625,214	-2925,255	12457,420	-4,006	-0,798
274,203	7,128	4,230	-6092,347	22664,166	-706,498	12484,505	-4,086	-0,591
274,700	7,128	4,230	-7927,278	22703,119	1590,620	12511,610	-4,169	-0,373
275,110	7,402	4,470	-9484,802	22595,987	3402,077	12458,645	-4,014	-0,306
275,520	7,675	4,711	-11085,020	22488,854	5006,938	12404,266	-3,835	-0,344
275,930	7,949	4,952	-12731,678	22381,722	6406,559	12349,841	-3,636	-0,472
276,340	8,223	5,192	-14428,519	22274,590	7603,665	12295,369	-3,419	-0,680
276,750	8,496	5,433	-16179,289	22167,458	8600,981	12240,854	-3,187	-0,956
277,160	8,770	5,674	-17987,732	22060,326	9401,233	12186,291	-2,943	-1,293
277,570	9,044	5,914	-19857,593	21953,194	10007,147	12131,686	-2,687	-1,685
277,980	9,317	6,155	-21816,720	21846,062	10421,446	12077,030	-2,419	-2,131
278,390	9,591	6,396	-23846,520	21738,929	10646,858	12022,334	-2,142	-2,621
278,800	9,865	6,636	-25948,971	21631,797	10686,108	11967,591	-1,858	-3,149
279,210	9,591	6,396	-23914,010	21524,665	10541,920	11759,508	-2,074	-2,730
279,620	9,317	6,155	-21951,700	21417,533	10217,021	11552,905	-2,279	-2,356
280,030	9,044	5,914	-20058,297	21310,401	9714,136	11347,786	-2,471	-2,030
280,440	8,770	5,674	-18230,056	21203,269	9035,990	11144,145	-2,649	-1,756
280,850	8,496	5,433	-16463,232	21096,137	8185,308	10941,985	-2,813	-1,539
281,260	8,223	5,192	-14754,082	20989,005	7164,817	10741,304	-2,962	-1,383
281,670	7,949	4,952	-13098,860	20881,872	5977,241	10542,107	-3,093	-1,297
282,080	7,675	4,711	-11493,823	20774,740	4625,306	10344,390	-3,204	-1,286
282,490	7,402	4,470	-9935,224	20667,608	3111,738	10148,153	-3,294	-1,360
282,900	7,128	4,230	-8424,364	20560,476	1439,261	9953,397	-3,357	-1,533
283,356	7,128	4,230	-6859,406	20518,508	-468,973	9774,303	-3,268	-1,765
283,811	7,128	4,230	-5340,178	20476,541	-2317,014	9597,051	-3,182	-1,989
284,267	7,128	4,230	-3866,678	20434,573	-4104,031	9420,474	-3,098	-2,207
284,722	7,128	4,230	-2438,908	20392,605	-5830,275	9244,492	-3,016	-2,417
285,178	7,128	4,230	3853,590	20350,638	-7496,151	9069,184	-3,720	-0,384
285,633	7,128	4,230	5193,918	20308,670	-9101,915	8894,478	-3,644	-0,579
286,089	7,128	4,230	6476,749	20266,702	-10647,968	8720,444	-3,568	-0,772
286,544	7,128	4,230	7751,530	20224,735	-12134,570	8547,012	-3,501	-0,941
287,000	7,128	4,230	8978,224	20182,767	-13562,118	8374,247	-3,435	-1,106

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
287,492	7,128	4,230	10190,003	22786,556	-17016,125	9265,556	-3,586	-2,086
287,984	7,128	4,230	11387,775	22859,746	-18710,817	9105,640	-3,491	-2,395
288,476	7,128	4,230	12543,901	22932,936	-20345,998	8944,499	-3,399	-2,697
288,968	7,128	4,230	13604,530	23006,127	-21920,999	8782,131	-3,302	-3,016
289,460	7,128	4,230	14611,323	23079,317	-23435,148	8618,536	-3,205	-3,331
289,952	7,128	4,230	15596,510	23152,507	-24887,777	8453,717	-3,115	-3,630
290,444	7,128	4,230	16505,979	23225,697	-26278,213	8287,672	-3,022	-3,934
290,936	7,128	4,230	17320,194	23298,887	-27605,788	8120,402	-2,924	-4,255
291,428	7,128	4,230	18134,299	23372,078	-28869,830	7951,902	-2,835	-4,546
291,920	7,128	4,230	18892,316	23445,268	-30069,670	7782,178	-2,748	-4,835
292,412	7,128	4,230	19535,205	23518,458	-31204,636	7611,229	-2,653	-5,147
292,904	7,128	4,230	20155,480	23591,648	-32274,059	7439,051	-2,564	-5,441
293,396	7,128	4,230	20742,281	23664,838	-33277,269	7265,647	-2,480	-5,719
293,888	7,128	4,230	21233,585	23738,029	-34213,594	7091,016	-2,392	-6,012
294,380	7,128	4,230	21658,393	23811,219	-35082,365	6915,158	-2,303	-6,304
294,872	7,128	4,230	22073,853	23884,409	-35882,911	6738,071	-2,224	-6,571
295,364	7,128	4,230	22413,594	23957,599	-36614,563	6559,759	-2,143	-6,840
295,856	7,128	4,230	22657,837	24030,789	-37276,649	6380,220	-2,059	-7,123
296,348	7,128	4,230	22885,710	24103,980	-37868,499	6199,454	-1,982	-7,381
296,840	7,128	4,230	23073,631	24177,170	-38389,444	6017,458	-1,910	-7,626
297,332	7,128	4,230	23146,423	24250,360	-38838,812	5834,237	-1,831	-7,891
297,824	7,128	4,230	23176,471	24323,550	-39215,933	5649,787	-1,757	-8,143
298,316	7,128	4,230	23192,841	24396,740	-39520,138	5464,111	-1,692	-8,369
298,808	7,128	4,230	23113,713	24469,931	-39750,755	5277,203	-1,623	-8,606
299,300	7,128	4,230	22958,867	24543,121	-39907,115	5089,070	-1,553	-8,843
299,782	7,128	4,230	22793,209	24496,432	-39769,941	4879,857	-1,509	-8,945
300,265	7,128	4,230	22570,246	24449,743	-39510,716	4671,424	-1,475	-9,017
300,747	7,128	4,230	22252,854	24403,053	-39130,147	4463,777	-1,446	-9,076
301,229	7,128	4,230	21890,699	24356,364	-38628,932	4256,914	-1,428	-9,100
301,712	7,128	4,230	21519,983	24309,675	-38007,772	4050,836	-1,429	-9,074
302,194	7,128	4,230	21043,261	24262,986	-37267,352	3845,528	-1,431	-9,040
302,676	7,128	4,230	20506,842	24216,297	-36408,401	3641,017	-1,444	-8,980
303,159	7,128	4,230	19947,991	24169,608	-35431,606	3437,288	-1,471	-8,876
303,641	7,128	4,230	19329,239	24122,919	-34337,645	3234,323	-1,508	-8,746
304,124	7,128	4,230	18627,636	24076,230	-33127,262	3032,160	-1,550	-8,599
304,606	7,128	4,230	17872,122	24029,540	-31801,136	2830,781	-1,603	-8,425
305,088	7,128	4,230	17110,047	23982,851	-30359,939	2630,156	-1,672	-8,200

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
305,571	7,128	4,230	16243,206	23936,162	-28804,429	2430,342	-1,744	-7,971
306,053	7,128	4,230	15322,454	23889,473	-27135,278	2231,309	-1,825	-7,714
306,535	7,128	4,230	14367,714	23842,784	-25353,187	2033,063	-1,918	-7,421
307,018	7,128	4,230	13352,956	23796,095	-23458,817	1835,557	-2,021	-7,104
307,500	7,128	4,230	12266,922	23749,406	-21452,945	1638,872	-2,129	-6,768
307,910	7,737	4,529	11300,547	23702,717	-19654,961	1471,860	-2,039	-5,990
308,320	8,346	4,828	10314,436	23656,027	-17778,414	1305,508	-1,975	-5,291
308,730	8,955	5,128	9251,653	23609,338	-15823,809	1139,818	-1,922	-4,677
309,140	9,564	5,427	8134,457	23562,649	-13791,653	974,788	-1,882	-4,125
309,550	10,173	5,726	6957,695	23515,960	-11682,453	810,420	-1,851	-3,628
309,960	10,782	6,025	5728,462	23469,271	-9496,713	646,714	-1,827	-3,174
310,370	11,391	6,325	4414,043	23422,582	-7234,941	483,665	-1,807	-2,768
310,780	12,001	6,624	3024,596	23375,893	-4897,642	321,280	-1,790	-2,399
311,190	12,610	6,923	1554,966	23329,204	-2485,322	159,555	-1,775	-2,065
311,600	13,219	7,222	0,000	23282,514	1,512	-1,512	-1,761	-1,761

E.2 Longo Prazo

v_{sup} [m]	v_{inf} [m]	f_{ctm} [MPa]	f_{ctk} [MPa]
0,674	1,926	3,200	2,200

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
0,000	13,219	7,222	0,000	18018,063	0,000	0,000	-1,363	-1,363
0,410	12,665	6,950	1449,228	18057,000	-1923,660	198,230	-1,399	-1,502
0,820	12,111	6,678	2813,253	18092,421	-3790,666	398,425	-1,435	-1,661
1,230	11,558	6,406	4097,197	18123,745	-5598,197	599,278	-1,473	-1,839
1,640	11,004	6,134	5306,179	18150,420	-7344,469	800,630	-1,513	-2,038
2,050	10,450	5,862	6430,010	18171,606	-9027,440	1002,283	-1,555	-2,263
2,460	9,896	5,590	7499,508	18179,051	-10640,534	1205,848	-1,604	-2,504
2,870	9,343	5,318	8510,995	18187,807	-12190,108	1407,740	-1,659	-2,769
3,280	8,789	5,046	9468,070	18189,788	-13670,325	1609,240	-1,723	-3,059
3,690	8,235	4,774	10348,473	18183,352	-15078,148	1809,956	-1,796	-3,386
4,100	7,682	4,502	11209,140	18169,931	-16412,980	2009,771	-1,887	-3,732

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
4,582	7,128	4,230	12168,813	18136,475	-17879,414	2244,792	-1,992	-4,123
5,065	7,128	4,230	13058,999	18160,017	-19310,425	2484,540	-1,947	-4,263
5,547	7,128	4,230	13889,166	18184,002	-20654,618	2724,957	-1,907	-4,391
6,029	7,128	4,230	14685,344	18210,611	-21914,383	2966,445	-1,876	-4,496
6,512	7,128	4,230	15427,613	18239,150	-23088,976	3208,986	-1,849	-4,586
6,994	7,128	4,230	16065,115	18266,482	-24174,198	3452,080	-1,821	-4,683
7,476	7,128	4,230	16696,055	18299,681	-25179,122	3697,069	-1,805	-4,747
7,959	7,128	4,230	17273,086	18335,860	-26100,085	3943,582	-1,794	-4,796
8,441	7,128	4,230	17767,265	18373,090	-26934,160	4191,314	-1,785	-4,843
8,924	7,128	4,230	18201,543	18413,220	-27683,666	4440,716	-1,780	-4,879
9,406	7,128	4,230	18613,390	18459,334	-28353,085	4692,708	-1,785	-4,888
9,888	7,128	4,230	18965,538	18508,746	-28938,116	4946,811	-1,796	-4,885
10,371	7,128	4,230	19211,682	18557,860	-29432,567	5202,126	-1,804	-4,889
10,853	7,128	4,230	19449,264	18614,481	-29848,207	5460,946	-1,825	-4,860
11,335	7,128	4,230	19642,082	18675,825	-30180,082	5722,707	-1,853	-4,813
11,818	7,128	4,230	19740,473	18737,907	-30420,980	5986,328	-1,881	-4,766
12,300	7,128	4,230	19781,578	18803,714	-30574,839	6252,821	-1,915	-4,706
12,797	7,128	4,230	19809,356	18859,867	-30636,770	6525,166	-1,960	-4,605
13,294	7,128	4,230	19759,034	18914,851	-30637,712	6798,599	-2,003	-4,511
13,791	7,128	4,230	19612,721	18967,186	-30574,780	7072,521	-2,041	-4,432
14,288	7,128	4,230	19453,869	19023,552	-30458,243	7349,406	-2,086	-4,333
14,785	7,128	4,230	19246,436	19080,973	-30282,720	7628,226	-2,134	-4,229
15,282	7,128	4,230	18925,122	19134,215	-30039,412	7906,862	-2,173	-4,145
15,779	7,128	4,230	18566,641	19189,343	-29737,435	8187,732	-2,217	-4,050
16,276	7,128	4,230	18187,290	19247,520	-29377,936	8471,425	-2,267	-3,938
16,773	7,128	4,230	17705,984	19302,372	-28950,595	8755,171	-2,311	-3,842
17,270	7,128	4,230	17152,543	19356,209	-28458,562	9039,918	-2,354	-3,747
17,767	7,128	4,230	16594,839	19414,044	-27908,629	9328,030	-2,407	-3,628
18,264	7,128	4,230	15956,637	19470,024	-27291,660	9616,778	-2,458	-3,514
18,761	7,128	4,230	15228,408	19523,459	-26606,390	9905,740	-2,504	-3,409
19,258	7,128	4,230	14473,518	19578,800	-25858,498	10197,128	-2,557	-3,288
19,755	7,128	4,230	13678,544	19634,847	-25045,692	10490,380	-2,615	-3,154
20,252	7,128	4,230	12775,652	19686,885	-24161,568	10782,942	-2,666	-3,036
20,748	7,128	4,230	11824,915	19738,878	-23210,903	11076,895	-2,720	-2,910
21,245	7,128	4,230	10864,358	19792,899	-22195,502	11373,392	-2,784	-2,758
21,742	7,128	4,230	9795,884	19842,648	-21107,845	11668,826	-2,841	-2,621
22,239	7,128	4,230	8661,237	19890,617	-19950,706	11964,524	-2,898	-2,483

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
22,736	7,128	4,230	7515,816	19939,540	-18726,529	12262,098	-2,965	-2,319
23,233	7,128	4,230	6290,852	19985,314	-17431,096	12559,005	-3,030	-2,158
23,730	7,128	4,230	4981,824	20027,649	-16064,377	12854,932	-3,092	-2,003
24,227	7,128	4,230	3643,732	20068,806	-14628,351	13151,226	-3,161	-1,829
24,724	7,128	4,230	-2694,496	20107,574	-13122,099	13447,025	-2,443	-3,900
25,221	7,128	4,230	-4146,853	20141,443	-11544,369	13740,523	-2,515	-3,714
25,718	7,128	4,230	-5653,631	20172,230	-9896,902	14032,784	-2,588	-3,521
26,215	7,128	4,230	-7214,831	20083,433	-8132,995	14241,076	-2,641	-3,322
26,712	7,128	4,230	-8830,452	20131,487	-6365,290	14545,856	-2,721	-3,120
27,209	7,128	4,230	-10500,495	20175,777	-4525,351	14849,156	-2,802	-2,911
27,706	7,128	4,230	-12224,958	20215,788	-2613,736	15150,437	-2,886	-2,694
28,203	7,128	4,230	-14003,844	20251,005	-631,274	15449,137	-2,971	-2,470
28,700	7,128	4,230	-15837,151	20280,918	1420,917	15744,661	-3,057	-2,240
29,110	7,402	4,470	-17441,203	20215,327	3043,642	15901,554	-2,958	-2,083
29,520	7,675	4,711	-19105,509	20143,325	4484,728	16068,191	-2,832	-2,033
29,930	7,949	4,952	-20816,255	20073,782	5745,933	16235,217	-2,684	-2,072
30,340	8,223	5,192	-22577,185	20007,946	6829,922	16403,742	-2,518	-2,190
30,750	8,496	5,433	-24392,043	19946,349	7739,190	16574,329	-2,338	-2,375
31,160	8,770	5,674	-26240,927	19897,657	8479,590	16721,915	-2,145	-2,622
31,570	9,044	5,914	-28174,565	19843,315	9045,379	16895,762	-1,940	-2,921
31,980	9,317	6,155	-30173,366	19791,788	9441,476	17070,838	-1,723	-3,270
32,390	9,591	6,396	-32241,073	19741,926	9668,806	17246,225	-1,497	-3,662
32,800	9,865	6,636	-34381,431	19692,312	9728,002	17420,728	-1,262	-4,095
33,210	9,591	6,396	-32240,693	19550,563	9575,084	17267,669	-1,470	-3,664
33,620	9,317	6,155	-30172,607	19409,226	9258,978	17115,373	-1,667	-3,272
34,030	9,044	5,914	-28175,192	19269,696	8783,901	16965,069	-1,854	-2,921
34,440	8,770	5,674	-26267,044	19133,506	8153,939	16818,095	-2,028	-2,621
34,850	8,496	5,433	-24420,314	19001,037	7372,409	16674,770	-2,190	-2,369
35,260	8,223	5,192	-22656,364	18863,507	6439,256	16559,092	-2,338	-2,167
35,670	7,949	4,952	-20921,271	18739,406	5363,980	16423,513	-2,475	-2,021
36,080	7,675	4,711	-19236,362	18619,673	4145,500	16292,110	-2,598	-1,935
36,490	7,402	4,470	-17597,893	18503,639	2785,928	16164,277	-2,704	-1,917
36,900	7,128	4,230	-16016,628	18383,910	1286,899	16051,038	-2,790	-1,977
37,356	7,128	4,230	-14289,944	18354,572	-419,514	15995,329	-2,780	-1,990
37,811	7,128	4,230	-12611,346	18325,450	-2073,608	15940,975	-2,771	-1,999
38,267	7,128	4,230	-11001,055	18296,336	-3674,593	15886,752	-2,760	-2,015
38,722	7,128	4,230	-9495,870	18266,332	-5222,370	15831,816	-2,740	-2,056

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
39,178	7,128	4,230	-8036,415	18235,935	-6717,200	15776,663	-2,721	-2,093
39,633	7,128	4,230	-6622,689	18328,687	-8214,528	15827,921	-2,729	-2,120
40,089	7,128	4,230	-5254,692	18319,006	-9624,663	15790,621	-2,715	-2,155
40,544	7,128	4,230	-3932,425	18309,874	-10985,679	15753,790	-2,702	-2,188
41,000	7,128	4,230	-2655,886	18300,058	-12297,003	15716,428	-2,689	-2,220
41,492	7,128	4,230	3556,501	18371,120	-13718,847	15746,091	-3,467	-0,035
41,984	7,128	4,230	4885,779	18442,519	-15095,294	15775,797	-3,474	-0,053
42,476	7,128	4,230	6189,244	18513,811	-16425,370	15805,166	-3,485	-0,062
42,968	7,128	4,230	7397,211	18581,543	-17705,109	15831,255	-3,487	-0,092
43,460	7,128	4,230	8547,173	18647,406	-18934,908	15855,523	-3,487	-0,126
43,952	7,128	4,230	9679,897	18713,779	-20116,368	15879,995	-3,493	-0,147
44,444	7,128	4,230	10736,901	18777,389	-21245,271	15901,899	-3,494	-0,178
44,936	7,128	4,230	11698,409	18836,841	-22318,913	15920,068	-3,487	-0,230
45,428	7,128	4,230	12657,964	18898,080	-23343,425	15939,540	-3,488	-0,259
45,920	7,128	4,230	13563,759	18957,973	-24314,501	15957,667	-3,489	-0,289
46,412	7,128	4,230	14354,425	19012,293	-25225,790	15970,906	-3,480	-0,345
46,904	7,128	4,230	15122,229	19067,387	-26084,738	15984,606	-3,475	-0,388
47,396	7,128	4,230	15857,099	19122,751	-26890,229	15998,341	-3,474	-0,422
47,888	7,128	4,230	16496,472	19173,899	-27635,319	16008,365	-3,466	-0,473
48,380	7,128	4,230	17071,687	19223,114	-28322,460	16016,600	-3,456	-0,527
48,872	7,128	4,230	17635,565	19274,494	-28957,172	16026,467	-3,454	-0,562
49,364	7,128	4,230	18123,723	19323,251	-29531,857	16033,977	-3,448	-0,605
49,856	7,128	4,230	18516,385	19367,849	-30043,478	16037,875	-3,436	-0,663
50,348	7,128	4,230	18898,572	19414,995	-30501,882	16043,723	-3,431	-0,702
50,840	7,128	4,230	19235,323	19462,064	-30902,616	16049,345	-3,429	-0,735
51,332	7,128	4,230	19456,946	19503,542	-31236,418	16050,202	-3,417	-0,792
51,824	7,128	4,230	19645,562	19546,031	-31513,321	16051,745	-3,409	-0,837
52,316	7,128	4,230	19811,244	19590,432	-31734,426	16054,710	-3,407	-0,867
52,808	7,128	4,230	19881,429	19630,942	-31889,945	16054,335	-3,399	-0,912
53,300	7,128	4,230	19876,204	19669,225	-31982,160	16052,003	-3,388	-0,963
53,797	7,128	4,230	19870,464	19702,904	-32006,236	16045,448	-3,387	-0,984
54,294	7,128	4,230	19786,624	19734,310	-31965,048	16036,926	-3,383	-1,012
54,791	7,128	4,230	19606,793	19762,041	-31856,073	16025,314	-3,374	-1,053
55,288	7,128	4,230	19405,715	19792,151	-31688,832	16015,529	-3,371	-1,077
55,785	7,128	4,230	19165,245	19823,170	-31460,634	16006,370	-3,372	-1,091
56,282	7,128	4,230	18810,894	19849,187	-31161,870	15993,071	-3,365	-1,126
56,779	7,128	4,230	18414,348	19875,939	-30801,443	15980,271	-3,361	-1,152

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
57,276	7,128	4,230	18002,363	19905,472	-30382,183	15969,609	-3,365	-1,158
57,773	7,128	4,230	17488,424	19931,043	-29893,505	15955,667	-3,362	-1,179
58,270	7,128	4,230	16902,348	19955,024	-29338,973	15940,366	-3,358	-1,204
58,767	7,128	4,230	16310,306	19982,367	-28725,621	15927,659	-3,363	-1,204
59,264	7,128	4,230	15639,802	20007,564	-28045,144	15913,149	-3,366	-1,210
59,761	7,128	4,230	14879,271	20029,841	-27296,483	15896,231	-3,364	-1,226
60,258	7,128	4,230	14092,671	20053,768	-26485,806	15880,540	-3,369	-1,225
60,755	7,128	4,230	13265,663	20078,159	-25611,170	15865,131	-3,378	-1,214
61,252	7,128	4,230	12330,736	20098,415	-24666,636	15846,373	-3,379	-1,221
61,748	7,128	4,230	11350,293	20118,745	-23657,588	15827,624	-3,383	-1,220
62,245	7,128	4,230	10357,912	20141,042	-22585,904	15810,325	-3,396	-1,194
62,742	7,128	4,230	9257,613	20159,264	-21444,648	15789,754	-3,402	-1,188
63,239	7,128	4,230	8091,142	20176,036	-20236,987	15767,987	-3,408	-1,181
63,736	7,128	4,230	6917,618	20194,430	-18965,913	15747,421	-3,423	-1,149
64,233	7,128	4,230	5660,988	20210,109	-17627,161	15724,678	-3,434	-1,124
64,730	7,128	4,230	4320,295	20223,154	-16221,194	15699,833	-3,443	-1,107
65,227	7,128	4,230	-2022,633	20236,283	-14750,427	15675,004	-2,664	-3,339
65,724	7,128	4,230	-3381,606	20248,362	-13213,977	15649,317	-2,690	-3,272
66,221	7,128	4,230	-4794,999	20256,849	-11610,516	15620,816	-2,717	-3,199
66,718	7,128	4,230	-6262,815	20263,918	-9941,886	15591,192	-2,745	-3,122
67,215	7,128	4,230	-7785,052	20157,531	-8163,002	15474,443	-2,752	-3,044
67,712	7,128	4,230	-9361,710	20185,567	-6382,389	15461,021	-2,787	-2,961
68,209	7,128	4,230	-10992,789	20211,393	-4533,339	15445,809	-2,823	-2,872
68,706	7,128	4,230	-12681,109	20234,675	-2616,178	15428,565	-2,860	-2,779
69,203	7,128	4,230	-14508,735	20254,997	-631,398	15408,988	-2,884	-2,719
69,700	7,128	4,230	-16393,587	20273,236	1420,379	15387,756	-2,910	-2,655
70,110	7,402	4,470	-17976,123	20201,532	3041,565	15292,592	-2,783	-2,575
70,520	7,675	4,711	-19617,506	20126,267	4480,930	15207,004	-2,632	-2,593
70,930	7,949	4,952	-21305,329	20055,712	5740,761	15125,182	-2,463	-2,694
71,340	8,223	5,192	-23043,335	19990,547	6823,983	15047,616	-2,279	-2,866
71,750	8,496	5,433	-24835,270	19930,841	7733,173	14974,337	-2,082	-3,100
72,160	8,770	5,674	-26656,557	19885,076	8474,228	14889,770	-1,876	-3,385
72,570	9,044	5,914	-28567,547	19833,941	9041,106	14823,408	-1,657	-3,725
72,980	9,317	6,155	-30543,699	19785,889	9438,661	14759,488	-1,429	-4,109
73,390	9,591	6,396	-32588,758	19739,554	9667,644	14696,985	-1,191	-4,535
73,800	9,865	6,636	-34706,468	19693,345	9728,512	14634,704	-0,946	-4,998

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
74,210	9,591	6,396	-32581,024	19551,936	9575,757	14536,900	-1,146	-4,589
74,620	9,317	6,155	-30533,420	19411,029	9259,838	14439,360	-1,335	-4,222
75,030	9,044	5,914	-28554,723	19271,868	8784,891	14343,016	-1,513	-3,898
75,440	8,770	5,674	-26641,188	19135,551	8154,810	14248,685	-1,679	-3,620
75,850	8,496	5,433	-24789,071	19002,915	7373,137	14156,994	-1,832	-3,392
76,260	8,223	5,192	-23023,076	18865,201	6439,834	14081,950	-1,970	-3,222
76,670	7,949	4,952	-21282,558	18740,842	5364,391	13996,133	-2,096	-3,105
77,080	7,675	4,711	-19592,224	18620,804	4145,752	13913,452	-2,207	-3,053
77,490	7,402	4,470	-17948,330	18504,414	2786,045	13833,408	-2,300	-3,073
77,900	7,128	4,230	-16363,474	18384,279	1286,925	13762,056	-2,370	-3,178
78,356	7,128	4,230	-14630,737	18354,455	-419,511	13746,358	-2,367	-3,169
78,811	7,128	4,230	-12946,087	18324,891	-2073,545	13731,901	-2,366	-3,157
79,267	7,128	4,230	-11363,679	18294,973	-3674,319	13717,188	-2,356	-3,168
79,722	7,128	4,230	-9851,867	18264,453	-5221,833	13701,960	-2,344	-3,187
80,178	7,128	4,230	-8385,785	18233,592	-6716,338	13686,484	-2,332	-3,203
80,633	7,128	4,230	-6965,431	18321,136	-8211,144	13759,874	-2,345	-3,215
81,089	7,128	4,230	-5590,806	18310,445	-9620,165	13759,547	-2,338	-3,230
81,544	7,128	4,230	-4261,911	18300,380	-10979,983	13759,651	-2,331	-3,242
82,000	7,128	4,230	-2978,745	18289,742	-12290,071	13759,342	-2,325	-3,253
82,492	7,128	4,230	3073,186	18360,002	-13710,544	13820,518	-3,083	-1,126
82,984	7,128	4,230	4424,248	18431,194	-15086,024	13882,459	-3,099	-1,119
83,476	7,128	4,230	5738,185	18501,897	-16414,799	13944,093	-3,116	-1,108
83,968	7,128	4,230	6956,625	18569,133	-17693,284	14003,174	-3,126	-1,118
84,460	7,128	4,230	8117,739	18634,626	-18921,931	14060,998	-3,133	-1,131
84,952	7,128	4,230	9260,919	18700,676	-20102,283	14119,302	-3,146	-1,131
85,444	7,128	4,230	10328,381	18764,040	-21230,168	14175,632	-3,154	-1,142
85,936	7,128	4,230	11300,345	18823,318	-22302,890	14228,928	-3,155	-1,172
86,428	7,128	4,230	12270,756	18884,475	-23326,621	14283,699	-3,164	-1,180
86,920	7,128	4,230	13186,998	18944,324	-24296,995	14337,531	-3,172	-1,188
87,412	7,128	4,230	13988,111	18998,656	-25207,696	14387,238	-3,170	-1,223
87,904	7,128	4,230	14766,544	19053,828	-26066,189	14437,628	-3,173	-1,244
88,396	7,128	4,230	15511,856	19109,307	-26871,324	14488,298	-3,179	-1,256
88,888	7,128	4,230	16161,671	19160,614	-27616,171	14535,851	-3,179	-1,285
89,380	7,128	4,230	16747,338	19210,029	-28303,182	14582,013	-3,177	-1,317
89,872	7,128	4,230	17321,657	19261,647	-28937,872	14629,888	-3,182	-1,330
90,364	7,128	4,230	17820,258	19310,677	-29512,640	14675,844	-3,185	-1,351
90,856	7,128	4,230	18223,360	19355,579	-30024,446	14718,699	-3,180	-1,387

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
91,348	7,128	4,230	18615,873	19403,050	-30483,115	14763,548	-3,184	-1,403
91,840	7,128	4,230	18963,070	19450,478	-30884,220	14808,406	-3,189	-1,414
92,332	7,128	4,230	19195,138	19492,340	-31218,477	14849,064	-3,185	-1,448
92,824	7,128	4,230	19393,993	19535,218	-31495,887	14890,531	-3,185	-1,471
93,316	7,128	4,230	19570,129	19580,044	-31717,598	14933,519	-3,191	-1,478
93,808	7,128	4,230	19650,767	19620,997	-31873,790	14973,592	-3,191	-1,500
94,300	7,128	4,230	19655,731	19659,718	-31966,702	15011,994	-3,189	-1,528
94,797	7,128	4,230	19660,561	19693,884	-31991,584	15047,037	-3,196	-1,526
95,294	7,128	4,230	19587,290	19725,790	-31951,246	15080,382	-3,200	-1,530
95,791	7,128	4,230	19418,030	19754,030	-31843,159	15110,948	-3,199	-1,548
96,288	7,128	4,230	19227,244	19784,635	-31676,799	15143,349	-3,205	-1,549
96,785	7,128	4,230	18997,358	19816,179	-31449,539	15176,493	-3,214	-1,540
97,282	7,128	4,230	18653,591	19842,727	-31151,727	15205,834	-3,215	-1,551
97,779	7,128	4,230	18267,352	19869,990	-30792,224	15235,746	-3,220	-1,553
98,276	7,128	4,230	17865,968	19900,059	-30373,921	15267,833	-3,232	-1,535
98,773	7,128	4,230	17362,629	19926,165	-29886,189	15296,904	-3,237	-1,533
99,270	7,128	4,230	16787,153	19950,679	-29332,584	15324,770	-3,242	-1,533
99,767	7,128	4,230	16205,474	19978,530	-28720,106	15355,222	-3,255	-1,509
100,264	7,128	4,230	15545,589	20004,248	-28040,497	15384,057	-3,267	-1,491
100,761	7,128	4,230	14795,677	20027,037	-27292,662	15410,658	-3,274	-1,483
101,258	7,128	4,230	14019,498	20051,449	-26482,744	15438,529	-3,287	-1,458
101,755	7,128	4,230	13203,129	20076,326	-25608,831	15466,774	-3,304	-1,423
102,252	7,128	4,230	12278,841	20097,048	-24664,959	15491,838	-3,314	-1,405
102,748	7,128	4,230	11308,892	20117,814	-23656,493	15516,975	-3,327	-1,379
103,245	7,128	4,230	10327,171	20140,531	-22585,332	15543,612	-3,349	-1,330
103,742	7,128	4,230	9237,533	20159,145	-21444,522	15567,099	-3,364	-1,298
104,239	7,128	4,230	8081,722	20176,275	-20237,227	15589,452	-3,378	-1,267
104,736	7,128	4,230	6918,796	20194,986	-18966,435	15613,043	-3,401	-1,210
105,233	7,128	4,230	5672,848	20210,944	-17627,889	15634,517	-3,422	-1,160
105,730	7,128	4,230	4342,838	20224,219	-16222,048	15653,927	-3,439	-1,119
106,227	7,128	4,230	2991,533	20237,579	-14751,372	15673,412	-3,463	-1,057
106,724	7,128	4,230	-3351,969	20250,051	-13215,079	15692,218	-2,702	-3,239
107,221	7,128	4,230	-4765,988	20258,803	-11611,636	15708,149	-2,735	-3,147
107,718	7,128	4,230	-6234,428	20266,000	-9942,907	15722,879	-2,771	-3,050
108,215	7,128	4,230	-7757,290	20157,712	-8163,075	15647,964	-2,785	-2,952
108,712	7,128	4,230	-9334,573	20185,620	-6382,406	15678,735	-2,826	-2,849
109,209	7,128	4,230	-10966,278	20211,367	-4533,334	15707,850	-2,869	-2,741

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
109,706	7,128	4,230	-12659,725	20234,589	-2616,167	15735,024	-2,912	-2,630
110,203	7,128	4,230	-14488,603	20254,966	-631,397	15760,000	-2,944	-2,550
110,700	7,128	4,230	-16374,708	20273,327	1420,385	15783,423	-2,976	-2,467
111,110	7,402	4,470	-17958,215	20201,748	3041,598	15721,869	-2,851	-2,382
111,520	7,675	4,711	-19600,653	20126,618	4481,008	15670,926	-2,701	-2,397
111,930	7,949	4,952	-21289,531	20056,200	5740,900	15623,597	-2,533	-2,494
112,340	8,223	5,192	-23028,592	19991,168	6824,195	15580,413	-2,350	-2,663
112,750	8,496	5,433	-24821,582	19931,589	7733,463	15541,431	-2,154	-2,894
113,160	8,770	5,674	-26644,007	19885,928	8474,591	15488,005	-1,949	-3,178
113,570	9,044	5,914	-28556,090	19834,894	9041,541	15455,632	-1,731	-3,515
113,980	9,317	6,155	-30533,335	19786,928	9439,157	15425,611	-1,503	-3,897
114,390	9,591	6,396	-32579,487	19740,663	9668,187	15396,882	-1,266	-4,321
114,800	9,865	6,636	-34698,291	19694,502	9729,084	15368,199	-1,021	-4,783
115,210	9,591	6,396	-32577,925	19553,213	9576,382	15255,493	-1,222	-4,371
115,620	9,317	6,155	-30530,581	19412,317	9260,453	15143,128	-1,413	-4,001
116,030	9,044	5,914	-28552,143	19273,144	8785,473	15032,142	-1,592	-3,673
116,440	8,770	5,674	-26638,868	19136,791	8155,339	14923,390	-1,759	-3,391
116,850	8,496	5,433	-24787,010	19004,092	7373,594	14817,521	-1,915	-3,157
117,260	8,223	5,192	-23021,045	18866,299	6440,209	14731,754	-2,054	-2,980
117,670	7,949	4,952	-21280,787	18741,806	5364,667	14632,175	-2,183	-2,857
118,080	7,675	4,711	-19590,713	18621,590	4145,927	14535,967	-2,296	-2,798
118,490	7,402	4,470	-17947,079	18504,973	2786,129	14442,597	-2,392	-2,810
118,900	7,128	4,230	-16362,352	18384,556	1286,944	14359,727	-2,465	-2,905
119,356	7,128	4,230	-14629,905	18354,365	-419,509	14332,535	-2,461	-2,901
119,811	7,128	4,230	-12945,545	18324,445	-2073,495	14306,636	-2,457	-2,895
120,267	7,128	4,230	-11365,860	18294,157	-3674,155	14280,489	-2,446	-2,912
120,722	7,128	4,230	-9854,296	18263,296	-5221,502	14253,868	-2,431	-2,936
121,178	7,128	4,230	-8388,461	18232,111	-6715,792	14227,035	-2,418	-2,957
121,633	7,128	4,230	-6968,356	18326,797	-8213,681	14298,379	-2,430	-2,973
122,089	7,128	4,230	-5593,979	18316,896	-9623,554	14288,144	-2,422	-2,993
122,544	7,128	4,230	-4265,331	18307,530	-10984,273	14278,294	-2,414	-3,011
123,000	7,128	4,230	-2982,413	18297,505	-12295,288	14267,964	-2,406	-3,027
123,492	7,128	4,230	3333,810	18368,363	-13716,788	14320,477	-3,204	-0,784
123,984	7,128	4,230	4678,936	18440,027	-15093,254	14373,595	-3,218	-0,784
124,476	7,128	4,230	5986,865	18511,112	-16422,975	14426,236	-3,233	-0,780
124,968	7,128	4,230	7199,297	18578,647	-17702,349	14476,089	-3,240	-0,797

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
125,460	7,128	4,230	8354,451	18644,366	-18931,820	14524,506	-3,245	-0,818
125,952	7,128	4,230	9491,622	18710,566	-20112,915	14573,274	-3,255	-0,825
126,444	7,128	4,230	10553,075	18774,014	-21241,453	14619,878	-3,260	-0,844
126,936	7,128	4,230	11519,029	18833,315	-22314,735	14663,231	-3,258	-0,881
127,428	7,128	4,230	12483,459	18894,441	-23338,931	14707,985	-3,265	-0,897
127,920	7,128	4,230	13393,690	18954,205	-24309,668	14751,658	-3,270	-0,913
128,412	7,128	4,230	14188,794	19008,405	-25220,631	14790,981	-3,266	-0,955
128,904	7,128	4,230	14961,229	19063,404	-26079,289	14830,908	-3,266	-0,984
129,396	7,128	4,230	15700,531	19118,669	-26884,488	14871,023	-3,270	-1,003
129,888	7,128	4,230	16344,335	19169,725	-27629,304	14907,846	-3,267	-1,040
130,380	7,128	4,230	16923,992	19218,859	-28316,192	14943,155	-3,262	-1,079
130,872	7,128	4,230	17492,301	19270,167	-28950,671	14980,138	-3,265	-1,100
131,364	7,128	4,230	17984,891	19318,860	-29525,146	15015,071	-3,264	-1,128
131,856	7,128	4,230	18381,984	19363,403	-30036,581	15046,763	-3,257	-1,172
132,348	7,128	4,230	18768,477	19410,493	-30494,808	15080,416	-3,258	-1,196
132,840	7,128	4,230	19109,663	19457,523	-30895,406	15114,006	-3,260	-1,214
133,332	7,128	4,230	19335,722	19498,970	-31229,096	15143,245	-3,253	-1,256
133,824	7,128	4,230	19528,551	19541,418	-31505,884	15173,245	-3,251	-1,286
134,316	7,128	4,230	19698,677	19585,805	-31726,932	15204,737	-3,254	-1,301
134,808	7,128	4,230	19773,306	19626,309	-31882,420	15233,198	-3,251	-1,331
135,300	7,128	4,230	19772,241	19664,571	-31974,592	15259,902	-3,246	-1,367
135,797	7,128	4,230	19771,001	19698,270	-31998,708	15283,024	-3,250	-1,372
136,294	7,128	4,230	19691,661	19729,704	-31957,586	15304,375	-3,252	-1,384
136,791	7,128	4,230	19516,331	19757,469	-31848,704	15322,871	-3,248	-1,410
137,288	7,128	4,230	19319,456	19787,597	-31681,542	15343,186	-3,251	-1,419
137,785	7,128	4,230	19083,501	19818,667	-31453,488	15364,220	-3,258	-1,417
138,282	7,128	4,230	18733,665	19844,743	-31154,893	15381,370	-3,256	-1,436
138,779	7,128	4,230	18341,338	19871,538	-30794,622	15399,069	-3,257	-1,446
139,276	7,128	4,230	17933,886	19901,146	-30375,580	15418,933	-3,266	-1,436
139,773	7,128	4,230	17424,479	19926,801	-29887,142	15435,726	-3,269	-1,442
140,270	7,128	4,230	16842,937	19950,873	-29332,869	15451,282	-3,271	-1,451
140,767	7,128	4,230	16255,173	19978,296	-28719,768	15469,423	-3,282	-1,435
141,264	7,128	4,230	15589,222	20003,601	-28039,590	15485,912	-3,290	-1,424
141,761	7,128	4,230	14833,243	20025,996	-27291,244	15500,141	-3,294	-1,424
142,258	7,128	4,230	14050,984	20050,034	-26480,875	15515,630	-3,305	-1,408
142,755	7,128	4,230	13228,550	20074,562	-25606,581	15531,487	-3,319	-1,380

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
143,252	7,128	4,230	12298,198	20094,962	-24662,399	15544,143	-3,326	-1,371
143,748	7,128	4,230	11322,174	20115,436	-23653,698	15556,868	-3,336	-1,353
144,245	7,128	4,230	10334,390	20137,897	-22582,378	15571,099	-3,355	-1,312
144,742	7,128	4,230	9238,688	20156,292	-21441,487	15582,178	-3,366	-1,289
145,239	7,128	4,230	8076,814	20173,245	-20234,188	15592,135	-3,377	-1,266
145,736	7,128	4,230	6907,821	20191,826	-18963,467	15603,340	-3,398	-1,217
146,233	7,128	4,230	5655,812	20207,706	-17625,064	15612,451	-3,416	-1,176
146,730	7,128	4,230	4319,740	20220,958	-16219,433	15619,524	-3,430	-1,143
147,227	7,128	4,230	2962,749	20234,371	-14749,033	15626,716	-3,451	-1,090
147,724	7,128	4,230	-3363,942	20247,024	-13213,104	15633,314	-2,690	-3,270
148,221	7,128	4,230	-4780,249	20256,008	-11610,034	15637,073	-2,722	-3,185
148,718	7,128	4,230	-6250,977	20263,491	-9941,676	15639,668	-2,755	-3,095
149,215	7,128	4,230	-7776,127	20156,153	-8162,443	15553,654	-2,766	-3,003
149,712	7,128	4,230	-9355,698	20184,361	-6382,008	15572,247	-2,805	-2,907
150,209	7,128	4,230	-10989,691	20210,445	-4533,127	15589,190	-2,846	-2,805
150,706	7,128	4,230	-12685,762	20234,039	-2616,096	15604,203	-2,887	-2,701
151,203	7,128	4,230	-14516,973	20254,830	-631,393	15617,042	-2,916	-2,628
151,700	7,128	4,230	-16405,411	20273,641	1420,407	15628,347	-2,947	-2,551
152,110	7,402	4,470	-17990,939	20202,395	3041,695	15557,915	-2,821	-2,467
152,520	7,675	4,711	-19635,302	20127,545	4481,214	15497,726	-2,672	-2,482
152,930	7,949	4,952	-21326,104	20057,355	5741,231	15441,143	-2,504	-2,579
153,340	8,223	5,192	-23067,090	19992,506	6824,652	15388,690	-2,321	-2,748
153,750	8,496	5,433	-24862,005	19933,070	7734,038	15340,417	-2,124	-2,980
154,160	8,770	5,674	-26686,516	19887,489	8475,257	15278,613	-1,919	-3,263
154,570	9,044	5,914	-28600,523	19836,526	9042,284	15236,960	-1,701	-3,601
154,980	9,317	6,155	-30579,692	19788,599	9439,954	15197,652	-1,473	-3,983
155,390	9,591	6,396	-32627,768	19742,344	9669,011	15159,639	-1,236	-4,407
155,800	9,865	6,636	-34748,496	19696,167	9729,907	15121,696	-0,991	-4,869
156,210	9,591	6,396	-32627,314	19554,856	9577,187	15015,712	-1,192	-4,458
156,620	9,317	6,155	-30578,783	19413,904	9261,210	14909,966	-1,382	-4,089
157,030	9,044	5,914	-28599,159	19274,647	8786,158	14805,486	-1,561	-3,762
157,440	8,770	5,674	-26684,697	19138,183	8155,932	14703,114	-1,728	-3,481
157,850	8,496	5,433	-24831,653	19005,346	7374,081	14603,495	-1,883	-3,249
158,260	8,223	5,192	-23064,415	18867,408	6440,588	14522,905	-2,022	-3,074
158,670	7,949	4,952	-21322,983	18742,725	5364,930	14429,341	-2,150	-2,952
159,080	7,675	4,711	-19631,735	18622,295	4146,084	14339,021	-2,262	-2,895

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
159,490	7,402	4,470	-17986,926	18505,443	2786,200	14251,424	-2,357	-2,909
159,900	7,128	4,230	-16401,003	18384,772	1286,959	14173,750	-2,429	-3,007
160,356	7,128	4,230	-14667,259	18354,300	-419,508	14151,861	-2,426	-3,001
160,811	7,128	4,230	-12981,602	18324,154	-2073,462	14131,284	-2,424	-2,991
161,267	7,128	4,230	-11400,815	18293,690	-3674,061	14110,488	-2,413	-3,006
161,722	7,128	4,230	-9887,948	18262,706	-5221,333	14089,245	-2,400	-3,027
162,178	7,128	4,230	-8420,811	18231,447	-6715,547	14067,813	-2,387	-3,044
162,633	7,128	4,230	-6999,402	18325,574	-8213,133	14143,107	-2,401	-3,058
163,089	7,128	4,230	-5623,723	18315,651	-9622,900	14138,140	-2,393	-3,074
163,544	7,128	4,230	-4293,773	18306,323	-10983,549	14133,596	-2,386	-3,089
164,000	7,128	4,230	-3009,551	18296,391	-12294,539	14128,612	-2,380	-3,102
164,492	7,128	4,230	3294,302	18367,408	-13716,075	14186,345	-3,177	-0,863
164,984	7,128	4,230	4641,998	18439,258	-15092,625	14244,743	-3,191	-0,859
165,476	7,128	4,230	5952,492	18510,575	-16422,499	14302,748	-3,208	-0,852
165,968	7,128	4,230	7167,489	18578,385	-17702,100	14358,063	-3,216	-0,865
166,460	7,128	4,230	8325,211	18644,416	-18931,872	14412,022	-3,222	-0,883
166,952	7,128	4,230	9464,947	18710,963	-20113,341	14466,399	-3,233	-0,886
167,444	7,128	4,230	10528,964	18774,788	-21242,328	14518,690	-3,240	-0,901
167,936	7,128	4,230	11497,484	18834,491	-22316,129	14567,809	-3,240	-0,935
168,428	7,128	4,230	12464,479	18896,044	-23340,911	14618,377	-3,247	-0,947
168,920	7,128	4,230	13377,275	18956,255	-24312,297	14667,922	-3,254	-0,960
169,412	7,128	4,230	14174,943	19010,919	-25223,966	14713,193	-3,251	-0,999
169,904	7,128	4,230	14949,943	19066,396	-26083,382	14759,106	-3,253	-1,024
170,396	7,128	4,230	15691,809	19122,151	-26889,385	14805,250	-3,258	-1,040
170,888	7,128	4,230	16338,178	19173,709	-27635,045	14848,159	-3,256	-1,073
171,380	7,128	4,230	16920,398	19223,350	-28322,809	14889,597	-3,253	-1,109
171,872	7,128	4,230	17491,272	19275,171	-28958,190	14932,737	-3,256	-1,126
172,364	7,128	4,230	17986,426	19324,382	-29533,586	14973,867	-3,257	-1,151
172,856	7,128	4,230	18386,083	19369,444	-30045,952	15011,795	-3,252	-1,191
173,348	7,128	4,230	18775,138	19417,052	-30505,113	15051,709	-3,253	-1,212
173,840	7,128	4,230	19118,889	19464,599	-30906,642	15091,589	-3,257	-1,226
174,332	7,128	4,230	19347,512	19506,560	-31241,253	15127,148	-3,252	-1,264
174,824	7,128	4,230	19542,903	19549,517	-31518,942	15163,490	-3,251	-1,291
175,316	7,128	4,230	19715,594	19594,405	-31740,863	15201,341	-3,255	-1,303
175,808	7,128	4,230	19792,787	19635,402	-31897,192	15236,186	-3,254	-1,329
176,300	7,128	4,230	19794,283	19674,147	-31990,163	15269,292	-3,250	-1,361
176,797	7,128	4,230	19795,633	19708,321	-32015,035	15298,891	-3,256	-1,363

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
177,294	7,128	4,230	19718,884	19740,216	-31974,613	15326,729	-3,259	-1,371
177,791	7,128	4,230	19546,144	19768,425	-31866,364	15351,710	-3,256	-1,393
178,288	7,128	4,230	19351,856	19798,979	-31699,765	15378,520	-3,261	-1,398
178,785	7,128	4,230	19118,492	19830,454	-31472,194	15406,052	-3,268	-1,392
179,282	7,128	4,230	18771,246	19856,911	-31173,996	15429,693	-3,268	-1,407
179,779	7,128	4,230	18381,507	19884,062	-30814,031	15453,878	-3,271	-1,414
180,276	7,128	4,230	17976,645	19913,998	-30395,196	15480,234	-3,282	-1,400
180,773	7,128	4,230	17469,829	19939,947	-29906,860	15503,497	-3,286	-1,401
181,270	7,128	4,230	16890,877	19964,281	-29352,582	15525,510	-3,289	-1,406
181,767	7,128	4,230	16305,702	19991,925	-28739,361	15550,102	-3,301	-1,386
182,264	7,128	4,230	15642,341	20017,410	-28058,946	15573,021	-3,311	-1,371
182,761	7,128	4,230	14888,954	20039,937	-27310,243	15593,643	-3,317	-1,367
183,258	7,128	4,230	14109,285	20064,058	-26499,396	15615,511	-3,329	-1,346
183,755	7,128	4,230	13289,441	20088,612	-25624,503	15637,720	-3,345	-1,314
184,252	7,128	4,230	12361,680	20108,978	-24679,600	15656,673	-3,353	-1,301
184,748	7,128	4,230	11388,247	20129,352	-23670,061	15675,659	-3,365	-1,279
185,245	7,128	4,230	10403,054	20151,641	-22597,790	15696,118	-3,385	-1,233
185,742	7,128	4,230	9309,943	20169,787	-21455,842	15713,354	-3,398	-1,205
186,239	7,128	4,230	8150,660	20186,408	-20247,390	15729,405	-3,411	-1,178
186,736	7,128	4,230	6984,260	20204,566	-18975,433	15746,658	-3,433	-1,125
187,233	7,128	4,230	5734,842	20219,928	-17635,725	15761,734	-3,452	-1,079
187,730	7,128	4,230	4401,361	20232,560	-16228,739	15774,683	-3,467	-1,041
188,227	7,128	4,230	3047,123	20245,252	-14756,964	15787,679	-3,490	-0,983
188,724	7,128	4,230	-3292,361	20257,084	-13219,669	15800,008	-2,728	-3,166
189,221	7,128	4,230	-4707,247	20265,122	-11615,257	15809,375	-2,761	-3,077
189,718	7,128	4,230	-6176,554	20271,528	-9945,620	15817,471	-2,795	-2,983
190,215	7,128	4,230	-7700,283	20162,475	-8165,004	15735,458	-2,808	-2,888
190,712	7,128	4,230	-9278,433	20189,410	-6383,604	15759,559	-2,848	-2,788
191,209	7,128	4,230	-10911,004	20214,103	-4533,947	15781,915	-2,890	-2,682
191,706	7,128	4,230	-12605,853	20236,189	-2616,373	15802,239	-2,931	-2,575
192,203	7,128	4,230	-14435,650	20255,358	-631,410	15820,291	-2,962	-2,499
192,700	7,128	4,230	-16322,673	20272,436	1420,323	15836,712	-2,993	-2,419
193,110	7,402	4,470	-17906,492	20199,933	3041,324	15769,168	-2,865	-2,340
193,520	7,675	4,711	-19549,681	20124,046	4480,435	15712,510	-2,714	-2,359
193,930	7,949	4,952	-21239,309	20053,023	5739,991	15659,631	-2,545	-2,460
194,340	8,223	5,192	-22979,121	19987,520	6822,950	15611,045	-2,360	-2,633
194,750	8,496	5,433	-24772,861	19927,588	7731,911	15566,792	-2,163	-2,868

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
195,160	8,770	5,674	-26595,196	19881,744	8472,808	15508,249	-1,956	-3,154
195,570	9,044	5,914	-28508,016	19830,559	9039,565	15470,855	-1,737	-3,495
195,980	9,317	6,155	-30485,999	19782,525	9437,057	15435,905	-1,509	-3,880
196,390	9,591	6,396	-32532,888	19736,268	9666,035	15402,331	-1,271	-4,306
196,800	9,865	6,636	-34652,800	19690,192	9726,955	15368,884	-1,025	-4,770
197,210	9,591	6,396	-32536,175	19549,015	9574,326	15251,144	-1,226	-4,360
197,620	9,317	6,155	-30492,202	19408,297	9258,535	15133,871	-1,415	-3,992
198,030	9,044	5,914	-28517,135	19269,373	8783,753	15018,105	-1,593	-3,666
198,440	8,770	5,674	-26607,230	19133,335	8153,866	14904,693	-1,760	-3,386
198,850	8,496	5,433	-24758,743	19001,012	7372,399	14794,279	-1,915	-3,155
199,260	8,223	5,192	-22996,808	18863,613	6439,292	14703,851	-2,053	-2,982
199,670	7,949	4,952	-21259,882	18739,613	5364,039	14599,925	-2,181	-2,862
200,080	7,675	4,711	-19573,141	18619,936	4145,559	14499,464	-2,293	-2,805
200,490	7,402	4,470	-17932,838	18503,893	2785,967	14401,922	-2,388	-2,821
200,900	7,128	4,230	-16351,734	18384,070	1286,910	14314,803	-2,460	-2,921
201,356	7,128	4,230	-14622,964	18354,506	-419,512	14282,826	-2,454	-2,921
201,811	7,128	4,230	-12942,281	18325,055	-2073,564	14252,031	-2,449	-2,919
202,267	7,128	4,230	-11366,770	18295,075	-3674,339	14220,888	-2,436	-2,940
202,722	7,128	4,230	-9858,837	18264,379	-5221,812	14189,175	-2,420	-2,968
203,178	7,128	4,230	-8396,632	18233,219	-6716,200	14157,160	-2,406	-2,993
203,633	7,128	4,230	-6980,157	18327,914	-8214,182	14222,804	-2,416	-3,014
204,089	7,128	4,230	-5609,411	18317,803	-9624,031	14207,109	-2,406	-3,037
204,544	7,128	4,230	-4284,393	18308,112	-10984,622	14191,717	-2,397	-3,059
205,000	7,128	4,230	-3005,105	18297,655	-12295,388	14175,767	-2,388	-3,079
205,492	7,128	4,230	3311,989	18367,929	-13716,464	14221,691	-3,185	-0,839
205,984	7,128	4,230	4650,622	18438,784	-15092,237	14267,996	-3,197	-0,844
206,476	7,128	4,230	5952,053	18508,945	-16421,053	14313,698	-3,209	-0,846
206,968	7,128	4,230	7157,986	18575,455	-17699,308	14356,510	-3,214	-0,869
207,460	7,128	4,230	8306,638	18640,057	-18927,445	14397,783	-3,217	-0,895
207,952	7,128	4,230	9437,309	18705,060	-20106,996	14439,305	-3,225	-0,908
208,444	7,128	4,230	10492,261	18767,241	-21233,789	14478,586	-3,228	-0,931
208,936	7,128	4,230	11451,716	18825,213	-22305,135	14514,563	-3,224	-0,974
209,428	7,128	4,230	12409,634	18884,958	-23327,217	14551,849	-3,229	-0,995
209,920	7,128	4,230	13313,364	18943,297	-24295,678	14587,994	-3,232	-1,016
210,412	7,128	4,230	14101,965	18996,035	-25204,219	14619,773	-3,226	-1,063
210,904	7,128	4,230	14867,883	19049,542	-26060,326	14652,091	-3,224	-1,097
211,396	7,128	4,230	15600,681	19103,293	-26862,867	14684,545	-3,225	-1,122

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
211,888	7,128	4,230	16237,982	19152,819	-27604,937	14713,702	-3,220	-1,163
212,380	7,128	4,230	16811,115	19200,410	-28289,009	14741,322	-3,214	-1,208
212,872	7,128	4,230	17372,920	19250,170	-28920,629	14770,562	-3,214	-1,233
213,364	7,128	4,230	17859,005	19297,315	-29492,219	14797,747	-3,212	-1,266
213,856	7,128	4,230	18249,592	19340,314	-30000,766	14821,710	-3,203	-1,315
214,348	7,128	4,230	18629,557	19385,868	-30456,121	14847,586	-3,201	-1,344
214,840	7,128	4,230	18964,238	19431,377	-30853,890	14873,382	-3,202	-1,367
215,332	7,128	4,230	19183,790	19471,322	-31184,815	14894,879	-3,193	-1,414
215,824	7,128	4,230	19370,089	19512,289	-31458,920	14917,117	-3,188	-1,450
216,316	7,128	4,230	19533,708	19555,223	-31677,392	14940,817	-3,189	-1,470
216,808	7,128	4,230	19601,830	19594,307	-31830,434	14961,536	-3,184	-1,505
217,300	7,128	4,230	19594,236	19631,185	-31920,307	14980,530	-3,177	-1,545
217,797	7,128	4,230	19586,422	19663,531	-31942,277	14995,940	-3,179	-1,556
218,294	7,128	4,230	19500,509	19693,662	-31899,206	15009,629	-3,179	-1,574
218,791	7,128	4,230	19318,605	19720,178	-31788,591	15020,533	-3,173	-1,605
219,288	7,128	4,230	19115,138	19749,117	-31619,931	15033,254	-3,174	-1,619
219,785	7,128	4,230	18872,609	19779,066	-31390,639	15046,714	-3,178	-1,623
220,282	7,128	4,230	18516,199	19804,097	-31091,080	15056,404	-3,174	-1,648
220,779	7,128	4,230	18117,287	19829,928	-30730,140	15066,675	-3,173	-1,665
221,276	7,128	4,230	17703,260	19858,664	-30310,739	15079,125	-3,180	-1,661
221,773	7,128	4,230	17187,280	19883,547	-29822,268	15088,622	-3,181	-1,672
222,270	7,128	4,230	16599,162	19906,958	-29268,304	15096,977	-3,180	-1,687
222,767	7,128	4,230	16004,823	19933,840	-28655,862	15107,938	-3,188	-1,678
223,264	7,128	4,230	15332,298	19958,737	-27976,703	15117,366	-3,194	-1,674
223,761	7,128	4,230	14569,746	19980,867	-27229,743	15124,675	-3,196	-1,681
224,258	7,128	4,230	13780,926	20004,800	-26421,133	15133,324	-3,204	-1,671
224,755	7,128	4,230	12951,918	20029,393	-25548,965	15142,446	-3,216	-1,651
225,252	7,128	4,230	12014,992	20050,045	-24607,272	15148,566	-3,220	-1,649
225,748	7,128	4,230	11032,424	20070,975	-23601,415	15154,894	-3,228	-1,638
226,245	7,128	4,230	10038,068	20094,109	-22533,274	15162,842	-3,244	-1,604
226,742	7,128	4,230	8935,793	20113,413	-21395,874	15167,879	-3,253	-1,589
227,239	7,128	4,230	7767,346	20131,530	-20192,347	15171,999	-3,262	-1,573
227,736	7,128	4,230	6591,833	20151,550	-18925,641	15177,534	-3,280	-1,532
228,233	7,128	4,230	5333,253	20169,157	-17591,442	15181,231	-3,295	-1,499
228,730	7,128	4,230	3990,609	20184,446	-16190,146	15183,165	-3,307	-1,473
229,227	7,128	4,230	-2085,786	20200,268	-14724,175	15185,482	-2,575	-3,574

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
229,724	7,128	4,230	-3449,615	20215,655	-13192,633	15187,455	-2,604	-3,499
230,221	7,128	4,230	-4867,864	20227,728	-11593,825	15186,923	-2,635	-3,418
230,718	7,128	4,230	-6340,535	20238,670	-9929,499	15185,527	-2,667	-3,333
231,215	7,128	4,230	-7867,628	20141,481	-8156,502	15103,037	-2,679	-3,245
231,712	7,128	4,230	-9449,142	20172,621	-6378,296	15116,804	-2,717	-3,154
232,209	7,128	4,230	-11085,077	20201,923	-4531,215	15129,161	-2,757	-3,056
232,706	7,128	4,230	-12785,758	20228,999	-2615,444	15139,821	-2,796	-2,957
233,203	7,128	4,230	-14618,964	20253,590	-631,355	15148,596	-2,825	-2,888
233,700	7,128	4,230	-16509,397	20276,479	1420,606	15156,072	-2,855	-2,814
234,110	7,402	4,470	-18098,085	20208,199	3042,569	15085,433	-2,735	-2,717
234,520	7,675	4,711	-19744,115	20135,801	4483,052	15023,573	-2,589	-2,721
234,930	7,949	4,952	-21436,584	20067,591	5744,161	14964,891	-2,426	-2,808
235,340	8,223	5,192	-23179,238	20004,302	6828,678	14909,932	-2,246	-2,967
235,750	8,496	5,433	-24975,820	19946,051	7739,075	14858,773	-2,053	-3,191
236,160	8,770	5,674	-26804,829	19901,109	8481,061	14795,529	-1,850	-3,467
236,570	9,044	5,914	-28720,542	19850,687	9048,740	14750,372	-1,634	-3,798
236,980	9,317	6,155	-30701,417	19803,031	9446,839	14707,305	-1,408	-4,174
237,390	9,591	6,396	-32751,200	19756,797	9676,089	14665,329	-1,174	-4,592
237,800	9,865	6,636	-34878,824	19710,503	9736,989	14623,347	-0,930	-5,051
238,210	9,591	6,396	-32751,584	19568,888	9584,059	14546,043	-1,132	-4,637
238,620	9,317	6,155	-30696,996	19427,387	9267,642	14468,421	-1,323	-4,263
239,030	9,044	5,914	-28711,315	19287,348	8791,947	14391,490	-1,503	-3,933
239,440	8,770	5,674	-26790,796	19149,875	8160,915	14316,077	-1,671	-3,648
239,850	8,496	5,433	-24931,695	19015,815	7378,143	14242,832	-1,827	-3,412
240,260	8,223	5,192	-23156,258	18876,593	6443,723	14186,822	-1,968	-3,233
240,670	7,949	4,952	-21408,909	18750,272	5367,091	14118,602	-2,097	-3,107
241,080	7,675	4,711	-19711,744	18628,033	4147,362	14053,098	-2,211	-3,045
241,490	7,402	4,470	-18061,019	18509,223	2786,769	13989,838	-2,307	-3,054
241,900	7,128	4,230	-16468,272	18386,492	1287,080	13935,570	-2,381	-3,147
242,356	7,128	4,230	-14728,043	18353,794	-419,496	13938,890	-2,382	-3,125
242,811	7,128	4,230	-13035,901	18321,924	-2073,209	13943,810	-2,385	-3,101
243,267	7,128	4,230	-11452,964	18290,174	-3673,355	13948,754	-2,378	-3,102
243,722	7,128	4,230	-9932,996	18258,416	-5220,107	13953,554	-2,370	-3,108
244,178	7,128	4,230	-8458,757	18226,838	-6713,850	13958,422	-2,364	-3,110
244,633	7,128	4,230	-7030,247	18319,900	-8210,590	14058,805	-2,382	-3,108
245,089	7,128	4,230	-5647,467	18310,781	-9620,342	14080,938	-2,380	-3,109
245,544	7,128	4,230	-4310,415	18302,772	-10981,419	14103,864	-2,378	-3,109

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
246,000	7,128	4,230	-3019,093	18294,642	-12293,364	14126,699	-2,378	-3,107
246,492	7,128	4,230	3310,750	18368,073	-13716,571	14214,939	-3,184	-0,842
246,984	7,128	4,230	4673,573	18442,398	-15095,195	14304,121	-3,206	-0,819
247,476	7,128	4,230	5999,195	18516,550	-16427,800	14393,423	-3,230	-0,792
247,968	7,128	4,230	7229,320	18587,520	-17710,804	14480,497	-3,245	-0,787
248,460	7,128	4,230	8402,074	18656,995	-18944,644	14566,647	-3,259	-0,785
248,952	7,128	4,230	9556,915	18727,245	-20130,843	14653,637	-3,277	-0,770
249,444	7,128	4,230	10636,036	18794,997	-21265,193	14738,909	-3,292	-0,765
249,936	7,128	4,230	11619,660	18858,822	-22344,957	14821,325	-3,298	-0,781
250,428	7,128	4,230	12601,578	18924,652	-23376,248	14905,535	-3,313	-0,774
250,920	7,128	4,230	13529,456	18989,290	-24354,667	14989,031	-3,328	-0,768
251,412	7,128	4,230	14342,206	19048,500	-25273,830	15068,450	-3,332	-0,789
251,904	7,128	4,230	15132,051	19108,601	-26141,120	15148,777	-3,340	-0,796
252,396	7,128	4,230	15888,978	19169,070	-26955,362	15229,601	-3,353	-0,794
252,888	7,128	4,230	16550,407	19225,396	-27709,542	15307,331	-3,358	-0,808
253,380	7,128	4,230	17147,411	19279,823	-28406,013	15383,735	-3,362	-0,826
253,872	7,128	4,230	17733,325	19336,469	-29050,281	15462,100	-3,373	-0,825
254,364	7,128	4,230	18243,520	19390,509	-29634,647	15538,568	-3,381	-0,832
254,856	7,128	4,230	18658,218	19440,387	-30156,000	15611,876	-3,383	-0,854
255,348	7,128	4,230	19061,998	19492,762	-30624,056	15687,362	-3,392	-0,856
255,840	7,128	4,230	19420,773	19545,057	-31034,397	15762,963	-3,403	-0,853
256,332	7,128	4,230	19664,418	19591,712	-31377,630	15834,182	-3,405	-0,872
256,824	7,128	4,230	19874,520	19639,268	-31663,644	15906,287	-3,411	-0,881
257,316	7,128	4,230	20062,219	19688,695	-31893,602	15980,072	-3,423	-0,873
257,808	7,128	4,230	20154,421	19734,132	-32057,576	16050,779	-3,429	-0,880
258,300	7,128	4,230	20170,903	19777,201	-32157,729	16119,708	-3,433	-0,893
258,797	7,128	4,230	20187,141	19815,585	-32189,279	16185,299	-3,447	-0,875
259,294	7,128	4,230	20125,540	19851,560	-32154,966	16249,050	-3,457	-0,864
259,791	7,128	4,230	19967,948	19883,682	-32052,156	16309,761	-3,463	-0,865
260,288	7,128	4,230	19788,579	19917,941	-31890,232	16372,338	-3,475	-0,850
260,785	7,128	4,230	19570,354	19952,929	-31666,570	16435,632	-3,491	-0,823
261,282	7,128	4,230	19238,248	19982,668	-31371,426	16494,711	-3,498	-0,817
261,779	7,128	4,230	18863,519	20012,833	-31013,586	16554,244	-3,509	-0,802
262,276	7,128	4,230	18473,793	20045,511	-30595,928	16615,961	-3,528	-0,766
262,773	7,128	4,230	17982,113	20073,892	-30107,757	16674,220	-3,541	-0,745
263,270	7,128	4,230	17418,296	20100,315	-29552,587	16730,943	-3,552	-0,727
263,767	7,128	4,230	16848,268	20129,675	-28937,383	16790,205	-3,573	-0,683

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
264,264	7,128	4,230	16200,043	20156,464	-28253,862	16847,419	-3,592	-0,645
264,761	7,128	4,230	15461,792	20179,847	-27500,910	16901,869	-3,606	-0,617
265,258	7,128	4,230	14697,460	20204,347	-26684,682	16957,334	-3,627	-0,571
265,755	7,128	4,230	13892,758	20228,733	-25803,238	17012,788	-3,651	-0,515
266,252	7,128	4,230	12980,138	20248,350	-24850,651	17064,301	-3,668	-0,476
266,748	7,128	4,230	12022,286	20267,374	-23832,360	17115,402	-3,689	-0,428
267,245	7,128	4,230	11052,245	20287,602	-22750,255	17167,567	-3,718	-0,356
267,742	7,128	4,230	9974,286	20302,951	-21597,498	17215,660	-3,740	-0,302
268,239	7,128	4,230	8830,155	20315,983	-20377,357	17261,835	-3,761	-0,248
268,736	7,128	4,230	7679,656	20329,743	-19092,995	17308,671	-3,792	-0,168
269,233	7,128	4,230	6445,407	20339,757	-17740,240	17352,359	-3,819	-0,095
269,730	7,128	4,230	5127,094	20346,077	-16319,792	17392,918	-3,842	-0,031
270,227	7,128	4,230	3800,917	20351,969	-14834,752	17433,133	-3,875	0,059
270,724	7,128	4,230	-2424,921	20355,355	-13283,800	17471,211	-3,137	-2,053
271,221	7,128	4,230	-3822,188	20353,812	-11666,092	17505,062	-3,177	-1,937
271,718	7,128	4,230	-5273,876	20349,503	-9983,876	17536,521	-3,218	-1,817
272,215	7,128	4,230	-6779,985	20342,477	-8237,898	17565,616	-3,260	-1,694
272,712	7,128	4,230	-8340,515	20330,135	-6428,099	17590,084	-3,302	-1,567
273,209	7,128	4,230	-9955,468	20253,792	-4542,849	17559,021	-3,329	-1,448
273,706	7,128	4,230	-11669,572	20259,269	-2619,357	17598,767	-3,370	-1,335
274,203	7,128	4,230	-13482,422	20261,031	-631,586	17635,296	-3,404	-1,239
274,700	7,128	4,230	-15352,499	20259,458	1419,413	17668,921	-3,438	-1,141
275,110	7,402	4,470	-16916,703	20173,404	3037,330	17604,441	-3,287	-1,121
275,520	7,675	4,711	-18545,830	20086,312	4472,034	17557,056	-3,115	-1,193
275,930	7,949	4,952	-20221,396	20006,260	5726,605	17515,587	-2,928	-1,342
276,340	8,223	5,192	-21947,146	19933,651	6804,561	17480,413	-2,728	-1,557
276,750	8,496	5,433	-23726,825	19868,320	7708,915	17451,426	-2,516	-1,830
277,160	8,770	5,674	-25524,592	19819,578	8446,316	17402,948	-2,298	-2,150
277,570	9,044	5,914	-27423,210	19765,942	9010,110	17383,882	-2,068	-2,521
277,980	9,317	6,155	-29411,095	19717,151	9405,871	17368,930	-1,827	-2,941
278,390	9,591	6,396	-31469,652	19671,296	9634,214	17356,431	-1,579	-3,400
278,800	9,865	6,636	-33600,861	19626,638	9695,559	17344,861	-1,323	-3,894
279,210	9,591	6,396	-31470,251	19487,883	9544,386	17006,996	-1,513	-3,513
279,620	9,317	6,155	-29412,292	19350,669	9231,044	16673,525	-1,693	-3,174
280,030	9,044	5,914	-27423,240	19216,234	8759,530	16345,447	-1,861	-2,880
280,440	8,770	5,674	-25499,351	19085,565	8133,509	16023,500	-2,017	-2,632
280,850	8,496	5,433	-23636,879	18959,375	7356,244	15708,151	-2,160	-2,434

x [m]	A_c [m^2]	I_c [m^4]	$M_{qp,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
281,260	8,223	5,192	-21869,255	18828,188	6427,199	15421,734	-2,287	-2,297
281,670	7,949	4,952	-20117,882	18711,525	5355,999	15119,102	-2,403	-2,215
282,080	7,675	4,711	-18416,694	18599,461	4141,000	14822,717	-2,502	-2,200
282,490	7,402	4,470	-16761,944	18491,067	2784,036	14531,697	-2,582	-2,260
282,900	7,128	4,230	-15175,142	18378,604	1286,527	14255,964	-2,637	-2,411
283,356	7,128	4,230	-13503,029	18355,872	-419,544	14011,336	-2,589	-2,535
283,811	7,128	4,230	-11876,645	18329,761	-2074,096	13765,797	-2,542	-2,656
284,267	7,128	4,230	-10295,991	18300,491	-3675,427	13518,593	-2,495	-2,774
284,722	7,128	4,230	-8761,065	18268,298	-5222,932	13269,945	-2,449	-2,888
285,178	7,128	4,230	-7271,869	18339,547	-6755,366	13095,984	-2,425	-2,997
285,633	7,128	4,230	-5828,401	18324,748	-8212,763	12859,840	-2,383	-3,109
286,089	7,128	4,230	-4430,663	18306,367	-9618,023	12621,616	-2,341	-3,218
286,544	7,128	4,230	-3078,654	18286,187	-10971,467	12382,587	-2,300	-3,325
287,000	7,128	4,230	3191,843	18263,328	-12272,322	12142,298	-3,050	-1,168
287,492	7,128	4,230	4519,349	20553,687	-15348,703	13391,763	-3,292	-1,717
287,984	7,128	4,230	5832,849	20614,221	-16872,843	13157,119	-3,229	-1,928
288,476	7,128	4,230	7104,703	20670,961	-18339,183	12918,485	-3,168	-2,133
288,968	7,128	4,230	8281,060	20721,517	-19744,147	12674,548	-3,100	-2,355
289,460	7,128	4,230	9403,580	20768,184	-21088,383	12426,929	-3,032	-2,576
289,952	7,128	4,230	10504,495	20813,224	-22373,165	12177,109	-2,969	-2,780
290,444	7,128	4,230	11529,691	20853,919	-23594,717	11923,596	-2,903	-2,990
290,936	7,128	4,230	12459,633	20889,196	-24750,655	11665,964	-2,831	-3,215
291,428	7,128	4,230	13389,466	20925,388	-25847,612	11407,884	-2,768	-3,414
291,920	7,128	4,230	14263,211	20959,352	-26881,364	11147,645	-2,706	-3,610
292,412	7,128	4,230	15021,828	20987,248	-27846,190	10883,346	-2,635	-3,828
292,904	7,128	4,230	15757,831	21015,666	-28750,041	10618,558	-2,570	-4,029
293,396	7,128	4,230	16460,359	21044,252	-29592,225	10353,087	-2,510	-4,218
293,888	7,128	4,230	17067,391	21068,745	-30366,359	10084,887	-2,444	-4,419
294,380	7,128	4,230	17607,926	21091,432	-31075,155	9815,183	-2,377	-4,622
294,872	7,128	4,230	18139,114	21116,899	-31725,123	9546,123	-2,319	-4,802
295,364	7,128	4,230	18594,582	21140,367	-32308,967	9275,497	-2,259	-4,987
295,856	7,128	4,230	18954,553	21160,445	-32824,159	9002,795	-2,193	-5,185
296,348	7,128	4,230	19298,154	21183,515	-33280,311	8730,783	-2,135	-5,363
296,840	7,128	4,230	19601,802	21207,982	-33674,853	8458,702	-2,081	-5,532
297,332	7,128	4,230	19790,322	21228,035	-33998,326	8184,259	-2,018	-5,721
297,824	7,128	4,230	19936,098	21249,619	-34259,951	7909,841	-1,959	-5,902
298,316	7,128	4,230	20068,195	21275,289	-34463,717	7636,305	-1,908	-6,063

298,808	7,128	4,230	20104,795	21298,629	-34599,060	7361,271	-1,851	-6,236
299,300	7,128	4,230	20065,676	21321,408	-34668,610	7085,419	-1,793	-6,414
299,782	7,128	4,230	20013,477	21261,810	-34518,534	6788,235	-1,753	-6,497
300,265	7,128	4,230	19903,972	21207,418	-34271,128	6494,217	-1,721	-6,560
300,747	7,128	4,230	19700,039	21155,299	-33922,392	6202,307	-1,690	-6,620
301,229	7,128	4,230	19451,343	21109,483	-33479,413	5913,544	-1,668	-6,656
301,712	7,128	4,230	19194,084	21072,787	-32946,952	5628,434	-1,662	-6,656
302,194	7,128	4,230	18830,822	21037,434	-32312,984	5344,628	-1,655	-6,657
302,676	7,128	4,230	18407,860	21007,031	-31583,376	5062,969	-1,654	-6,641
303,159	7,128	4,230	17962,468	20984,265	-30762,031	4783,867	-1,667	-6,594
303,641	7,128	4,230	17457,174	20966,038	-29843,999	4506,334	-1,686	-6,530
304,124	7,128	4,230	16869,030	20950,470	-28826,428	4229,850	-1,708	-6,458
304,606	7,128	4,230	16226,975	20939,437	-27711,637	3954,651	-1,738	-6,366
305,088	7,128	4,230	15578,358	20935,752	-26502,610	3681,025	-1,783	-6,235
305,571	7,128	4,230	14824,975	20932,236	-25189,548	3407,569	-1,828	-6,104
306,053	7,128	4,230	14017,682	20931,892	-23775,857	3134,699	-1,881	-5,953
306,535	7,128	4,230	13176,401	20935,238	-22261,452	2862,364	-1,945	-5,771
307,018	7,128	4,230	12275,100	20939,881	-20643,086	2590,088	-2,017	-5,569
307,500	7,128	4,230	11302,525	20944,429	-18919,197	2317,733	-2,094	-5,351
307,910	7,737	4,529	10435,188	21017,562	-17428,355	2090,684	-1,987	-4,801
308,320	8,346	4,828	9545,228	21069,282	-15834,375	1862,751	-1,907	-4,290
308,730	8,955	5,128	8578,596	21107,960	-14147,297	1632,678	-1,840	-3,836
309,140	9,564	5,427	7557,551	21135,870	-12371,215	1401,050	-1,786	-3,421
309,550	10,173	5,726	6476,941	21153,936	-10509,027	1168,275	-1,742	-3,043
309,960	10,782	6,025	5345,868	21171,763	-8567,039	933,268	-1,708	-2,695
310,370	11,391	6,325	4127,098	21171,779	-6539,696	699,586	-1,676	-2,380
310,780	12,001	6,624	2833,299	21164,407	-4434,298	465,756	-1,648	-2,094
311,190	12,610	6,923	1459,318	21150,341	-2253,202	232,029	-1,623	-1,834
311,600	13,219	7,222	0,000	21130,270	1,372	-1,372	-1,599	-1,599

Anexo F – Estado limite de largura de fendas

F.1 Início de exploração

v_{sup} [m]	v_{inf} [m]	f_{ctm} [MPa]	f_{ctk} [MPa]
0,674	1,926	3,200	2,200

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
0,000	13,219	7,222	0,000	19820,939	0,000	0,000	-1,499	-1,499
0,410	12,665	6,950	1624,483	19880,078	-2117,878	136,890	-1,535	-1,668
0,820	12,111	6,678	3161,855	19939,217	-4177,601	275,903	-1,572	-1,860
1,230	11,558	6,406	4617,235	19998,356	-6177,240	415,748	-1,610	-2,074
1,640	11,004	6,134	5995,745	20057,494	-8116,156	556,432	-1,651	-2,314
2,050	10,450	5,862	7271,881	20116,633	-9993,707	697,954	-1,692	-2,590
2,460	9,896	5,590	8505,891	20175,772	-11809,251	840,310	-1,742	-2,887
2,870	9,343	5,318	9678,425	20234,910	-13562,149	983,503	-1,798	-3,216
3,280	8,789	5,046	10794,638	20294,049	-15251,758	1127,532	-1,864	-3,580
3,690	8,235	4,774	11804,854	20353,188	-16877,437	1272,394	-1,935	-4,005
4,100	7,682	4,502	12817,793	20412,327	-18438,546	1418,095	-2,028	-4,455
4,582	7,128	4,230	13956,163	20471,465	-20181,309	1589,759	-2,133	-4,983
5,065	7,128	4,230	15003,250	20530,604	-21831,185	1762,444	-2,073	-5,187
5,547	7,128	4,230	15981,567	20589,743	-23387,221	1936,080	-2,017	-5,379
6,029	7,128	4,230	16943,174	20648,881	-24848,563	2110,709	-1,974	-5,535
6,512	7,128	4,230	17848,228	20708,020	-26214,324	2286,327	-1,936	-5,674
6,994	7,128	4,230	18595,017	20767,159	-27483,640	2462,954	-1,890	-5,839
7,476	7,128	4,230	19379,950	20826,298	-28655,575	2640,545	-1,864	-5,943
7,959	7,128	4,230	20108,329	20885,436	-29729,267	2819,126	-1,846	-6,027
8,441	7,128	4,230	20722,273	20944,575	-30703,846	2998,716	-1,826	-6,118
8,924	7,128	4,230	21267,683	21003,714	-31578,388	3179,275	-1,810	-6,194
9,406	7,128	4,230	21819,497	21062,852	-32352,025	3360,827	-1,812	-6,221
9,888	7,128	4,230	22303,181	21121,991	-33023,881	3543,379	-1,820	-6,231
10,371	7,128	4,230	22626,124	21181,130	-33593,044	3726,903	-1,818	-6,268
10,853	7,128	4,230	22983,210	21240,269	-34058,641	3911,425	-1,838	-6,242
11,335	7,128	4,230	23302,037	21299,407	-34419,783	4096,933	-1,869	-6,185
11,818	7,128	4,230	23483,276	21358,546	-34675,586	4283,436	-1,896	-6,142
12,300	7,128	4,230	23601,210	21417,685	-34825,155	4470,922	-1,929	-6,080

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
12,797	7,128	4,230	23747,193	21456,637	-34855,075	4660,340	-1,983	-5,946
13,294	7,128	4,230	23791,398	21495,590	-34817,916	4850,417	-2,032	-5,828
13,791	7,128	4,230	23698,043	21534,542	-34713,315	5041,151	-2,069	-5,741
14,288	7,128	4,230	23634,031	21573,495	-34540,908	5232,537	-2,122	-5,610
14,785	7,128	4,230	23527,279	21612,447	-34300,332	5424,574	-2,180	-5,467
15,282	7,128	4,230	23247,185	21651,400	-33991,221	5617,278	-2,221	-5,372
15,779	7,128	4,230	22947,179	21690,353	-33613,212	5810,629	-2,269	-5,254
16,276	7,128	4,230	22659,855	21729,305	-33165,941	6004,638	-2,331	-5,098
16,773	7,128	4,230	22223,043	21768,258	-32649,045	6199,301	-2,380	-4,979
17,270	7,128	4,230	21696,380	21807,210	-32062,158	6394,620	-2,427	-4,868
17,767	7,128	4,230	21215,614	21846,163	-31404,918	6590,595	-2,491	-4,704
18,264	7,128	4,230	20628,274	21885,115	-30676,959	6787,224	-2,551	-4,555
18,761	7,128	4,230	19915,301	21924,068	-29877,919	6984,511	-2,601	-4,432
19,258	7,128	4,230	19203,427	21963,020	-29007,432	7182,449	-2,664	-4,275
19,755	7,128	4,230	18465,807	22001,973	-28065,136	7381,048	-2,733	-4,097
20,252	7,128	4,230	17566,772	22040,925	-27050,665	7580,300	-2,789	-3,959
20,748	7,128	4,230	16626,468	22079,878	-25963,680	7780,227	-2,850	-3,807
21,245	7,128	4,230	15720,948	22118,831	-24803,771	7980,790	-2,928	-3,605
21,742	7,128	4,230	14654,013	22157,783	-23570,596	8182,009	-2,992	-3,443
22,239	7,128	4,230	13509,154	22196,736	-22263,791	8383,884	-3,055	-3,283
22,736	7,128	4,230	12397,167	22235,688	-20882,992	8586,417	-3,136	-3,074
23,233	7,128	4,230	11180,516	22274,641	-19427,835	8789,596	-3,211	-2,878
23,730	7,128	4,230	9850,160	22313,593	-17897,957	8993,432	-3,281	-2,700
24,227	7,128	4,230	8516,096	22352,546	-16292,992	9197,934	-3,362	-2,489
24,724	7,128	4,230	7150,045	22391,498	-14612,577	9403,078	-3,451	-2,258
25,221	7,128	4,230	5634,507	22430,451	-12856,348	9608,885	-3,527	-2,060
25,718	7,128	4,230	4081,745	22469,403	-11023,941	9815,344	-3,610	-1,844
26,215	7,128	4,230	-4695,672	22508,356	-9114,993	10022,460	-2,554	-4,883
26,712	7,128	4,230	-6263,537	22547,308	-7129,138	10230,229	-2,659	-4,603
27,209	7,128	4,230	-7885,822	22586,261	-5066,013	10438,655	-2,768	-4,313
27,706	7,128	4,230	-9562,530	22625,214	-2925,255	10647,731	-2,881	-4,012
28,203	7,128	4,230	-11293,659	22664,166	-706,498	10857,472	-2,998	-3,700
28,700	7,128	4,230	-13079,209	22703,119	1590,620	11067,860	-3,118	-3,377
29,110	7,402	4,470	-14719,233	22595,987	3402,077	11174,504	-3,031	-3,114
29,520	7,675	4,711	-16413,948	22488,854	5006,938	11278,282	-2,912	-2,983
29,930	7,949	4,952	-18157,012	22381,722	6406,559	11380,565	-2,765	-2,960
30,340	8,223	5,192	-19952,170	22274,590	7603,665	11481,353	-2,596	-3,031

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
30,750	8,496	5,433	-21803,166	22167,458	8600,981	11580,647	-2,408	-3,184
31,160	8,770	5,674	-23713,744	22060,326	9401,233	11678,449	-2,202	-3,410
31,570	9,044	5,914	-25687,650	21953,194	10007,147	11774,755	-1,982	-3,699
31,980	9,317	6,155	-27728,628	21846,062	10421,446	11869,571	-1,749	-4,046
32,390	9,591	6,396	-29840,422	21738,929	10646,858	11962,889	-1,505	-4,444
32,800	9,865	6,636	-32026,777	21631,797	10686,108	12054,711	-1,250	-4,888
33,210	9,591	6,396	-29740,045	21524,665	10541,920	11990,919	-1,485	-4,415
33,620	9,317	6,155	-27527,874	21417,533	10217,021	11927,170	-1,709	-3,983
34,030	9,044	5,914	-25390,048	21310,401	9714,136	11863,457	-1,922	-3,598
34,440	8,770	5,674	-23367,504	21203,269	9035,990	11799,790	-2,117	-3,277
34,850	8,496	5,433	-21408,288	21096,137	8185,308	11736,155	-2,299	-3,010
35,260	8,223	5,192	-19508,655	20989,005	7164,817	11672,569	-2,465	-2,802
35,670	7,949	4,952	-17664,859	20881,872	5977,241	11609,019	-2,616	-2,658
36,080	7,675	4,711	-15873,157	20774,740	4625,306	11545,510	-2,749	-2,585
36,490	7,402	4,470	-14129,804	20667,608	3111,738	11482,038	-2,862	-2,592
36,900	7,128	4,230	-12431,056	20560,476	1439,261	11418,613	-2,953	-2,690
37,356	7,128	4,230	-10592,173	20518,508	-468,973	11389,818	-2,931	-2,729
37,811	7,128	4,230	-8803,734	20476,541	-2317,014	11362,246	-2,911	-2,763
38,267	7,128	4,230	-7106,178	20434,573	-4104,031	11334,725	-2,887	-2,810
38,722	7,128	4,230	-5573,108	20392,605	-5830,275	11307,184	-2,846	-2,905
39,178	7,128	4,230	-4085,767	20350,638	-7496,151	11279,690	-2,807	-2,993
39,633	7,128	4,230	3679,198	20308,670	-9101,915	11252,182	-3,778	-0,195
40,089	7,128	4,230	5132,502	20266,702	-10647,968	11224,721	-3,753	-0,244
40,544	7,128	4,230	6628,479	20224,735	-12134,570	11197,241	-3,744	-0,246
41,000	7,128	4,230	8074,012	20182,767	-13562,118	11169,813	-3,737	-0,244
41,492	7,128	4,230	9460,448	20232,164	-15108,603	11192,593	-3,722	-0,314
41,984	7,128	4,230	10884,808	20281,561	-16600,559	11215,348	-3,722	-0,341
42,476	7,128	4,230	12310,881	20330,957	-18037,534	11238,077	-3,731	-0,343
42,968	7,128	4,230	13599,298	20380,354	-19419,076	11260,779	-3,726	-0,382
43,460	7,128	4,230	14825,040	20429,751	-20744,732	11283,459	-3,721	-0,424
43,952	7,128	4,230	16069,646	20479,147	-22014,050	11306,108	-3,727	-0,432
44,444	7,128	4,230	17216,152	20528,544	-23226,578	11328,741	-3,727	-0,458
44,936	7,128	4,230	18225,002	20577,941	-24381,862	11351,344	-3,715	-0,522
45,428	7,128	4,230	19283,286	20627,337	-25479,452	11373,926	-3,719	-0,536
45,920	7,128	4,230	20287,387	20676,734	-26518,894	11396,480	-3,724	-0,549
46,412	7,128	4,230	21114,570	20726,131	-27499,735	11419,012	-3,710	-0,616

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
46,904	7,128	4,230	21949,368	20775,528	-28421,524	11441,515	-3,707	-0,652
47,396	7,128	4,230	22771,635	20824,924	-29283,809	11463,994	-3,711	-0,667
47,888	7,128	4,230	23456,246	20874,321	-30086,135	11486,449	-3,702	-0,717
48,380	7,128	4,230	24065,880	20923,718	-30828,052	11508,880	-3,692	-0,774
48,872	7,128	4,230	24706,178	20973,114	-31509,107	11531,289	-3,696	-0,789
49,364	7,128	4,230	25248,376	21022,511	-32128,848	11553,670	-3,694	-0,821
49,856	7,128	4,230	25652,918	21071,908	-32686,821	11576,025	-3,680	-0,888
50,348	7,128	4,230	26089,851	21121,305	-33182,575	11598,350	-3,681	-0,912
50,840	7,128	4,230	26489,250	21170,701	-33615,657	11620,655	-3,686	-0,924
51,332	7,128	4,230	26711,730	21220,098	-33985,615	11642,935	-3,673	-0,988
51,824	7,128	4,230	26921,535	21269,495	-34291,996	11665,193	-3,668	-1,028
52,316	7,128	4,230	27138,812	21318,891	-34534,348	11687,427	-3,675	-1,037
52,808	7,128	4,230	27218,432	21368,288	-34712,219	11709,628	-3,670	-1,078
53,300	7,128	4,230	27200,569	21417,685	-34825,155	11731,807	-3,659	-1,135
53,797	7,128	4,230	27235,752	21456,637	-34855,075	11748,194	-3,668	-1,130
54,294	7,128	4,230	27169,157	21495,590	-34817,916	11764,558	-3,672	-1,142
54,791	7,128	4,230	26965,001	21534,542	-34713,315	11780,905	-3,664	-1,185
55,288	7,128	4,230	26772,772	21573,495	-34540,908	11797,230	-3,669	-1,192
55,785	7,128	4,230	26556,181	21612,447	-34300,332	11813,535	-3,681	-1,179
56,282	7,128	4,230	26166,249	21651,400	-33991,221	11829,816	-3,676	-1,214
56,779	7,128	4,230	25746,350	21690,353	-33613,212	11846,078	-3,677	-1,231
57,276	7,128	4,230	25349,993	21729,305	-33165,941	11862,322	-3,693	-1,206
57,773	7,128	4,230	24804,148	21768,258	-32649,045	11878,537	-3,697	-1,217
58,270	7,128	4,230	24168,453	21807,210	-32062,158	11894,737	-3,697	-1,238
58,767	7,128	4,230	23575,245	21846,163	-31404,918	11910,918	-3,715	-1,206
59,264	7,128	4,230	22879,536	21885,115	-30676,959	11927,079	-3,728	-1,190
59,761	7,128	4,230	22058,194	21924,068	-29877,919	11943,216	-3,733	-1,198
60,258	7,128	4,230	21239,137	21963,020	-29007,432	11959,332	-3,749	-1,173
60,755	7,128	4,230	20393,683	22001,973	-28065,136	11975,425	-3,773	-1,127
61,252	7,128	4,230	19386,814	22040,925	-27050,665	11991,500	-3,782	-1,122
61,748	7,128	4,230	18343,333	22079,878	-25963,680	12007,577	-3,797	-1,100
62,245	7,128	4,230	17330,399	22118,831	-24803,771	12023,610	-3,828	-1,031
62,742	7,128	4,230	16156,050	22157,783	-23570,596	12039,624	-3,846	-1,003
63,239	7,128	4,230	14903,777	22196,736	-22263,791	12055,619	-3,862	-0,976
63,736	7,128	4,230	13691,820	22235,688	-20882,992	12071,589	-3,897	-0,897
64,233	7,128	4,230	12368,074	22274,641	-19427,835	12087,535	-3,926	-0,836
64,730	7,128	4,230	10930,621	22313,593	-17897,957	12103,464	-3,949	-0,792

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
65,227	7,128	4,230	9502,442	22352,546	-16292,992	12119,374	-3,985	-0,709
65,724	7,128	4,230	8052,823	22391,498	-14612,577	12135,260	-4,030	-0,603
66,221	7,128	4,230	6453,717	22430,451	-12856,348	12151,126	-4,063	-0,529
66,718	7,128	4,230	4827,089	22469,403	-11023,941	12166,971	-4,104	-0,434
67,215	7,128	4,230	-3675,057	22508,356	-9114,993	12182,792	-3,061	-3,434
67,712	7,128	4,230	-5267,656	22547,308	-7129,138	12198,600	-3,132	-3,253
68,209	7,128	4,230	-6914,677	22586,261	-5066,013	12214,380	-3,206	-3,062
68,706	7,128	4,230	-8621,756	22625,214	-2925,255	12230,139	-3,283	-2,863
69,203	7,128	4,230	-10553,025	22664,166	-706,498	12245,879	-3,337	-2,730
69,700	7,128	4,230	-12544,327	22703,119	1590,620	12261,599	-3,393	-2,590
70,110	7,402	4,470	-14232,968	22595,987	3402,077	12200,802	-3,259	-2,463
70,520	7,675	4,711	-15966,214	22488,854	5006,938	12138,675	-3,099	-2,448
70,930	7,949	4,952	-17747,809	22381,722	6406,559	12076,589	-2,916	-2,530
71,340	8,223	5,192	-19581,498	22274,590	7603,665	12014,540	-2,714	-2,695
71,750	8,496	5,433	-21471,025	22167,458	8600,981	11952,535	-2,495	-2,934
72,160	8,770	5,674	-23420,134	22060,326	9401,233	11890,568	-2,263	-3,238
72,570	9,044	5,914	-25432,570	21953,194	10007,147	11828,639	-2,018	-3,599
72,980	9,317	6,155	-27512,079	21846,062	10421,446	11766,753	-1,762	-4,011
73,390	9,591	6,396	-29662,404	21738,929	10646,858	11704,907	-1,496	-4,468
73,800	9,865	6,636	-31887,290	21631,797	10686,108	11643,103	-1,222	-4,967
74,210	9,591	6,396	-29640,161	21524,665	10541,920	11585,175	-1,452	-4,507
74,620	9,317	6,155	-27477,972	21417,533	10217,021	11527,247	-1,671	-4,093
75,030	9,044	5,914	-25386,599	21310,401	9714,136	11469,325	-1,877	-3,725
75,440	8,770	5,674	-23362,298	21203,269	9035,990	11411,404	-2,071	-3,407
75,850	8,496	5,433	-21401,324	21096,137	8185,308	11353,484	-2,252	-3,143
76,260	8,223	5,192	-19499,932	20989,005	7164,817	11295,569	-2,418	-2,938
76,670	7,949	4,952	-17654,379	20881,872	5977,241	11237,651	-2,567	-2,798
77,080	7,675	4,711	-15860,920	20774,740	4625,306	11179,738	-2,699	-2,730
77,490	7,402	4,470	-14115,809	20667,608	3111,738	11121,829	-2,810	-2,742
77,900	7,128	4,230	-12415,303	20560,476	1439,261	11063,918	-2,898	-2,844
78,356	7,128	4,230	-10574,467	20518,508	-468,973	11039,903	-2,878	-2,880
78,811	7,128	4,230	-8784,075	20476,541	-2317,014	11017,087	-2,859	-2,911
79,267	7,128	4,230	-7152,438	20434,573	-4104,031	10994,308	-2,825	-2,986
79,722	7,128	4,230	-5616,264	20392,605	-5830,275	10971,487	-2,785	-3,077
80,178	7,128	4,230	-4125,819	20350,638	-7496,151	10948,709	-2,748	-3,162
80,633	7,128	4,230	3909,162	20308,670	-9101,915	10925,891	-3,763	-0,239
81,089	7,128	4,230	5363,745	20266,702	-10647,968	10903,107	-3,739	-0,285

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
81,544	7,128	4,230	6858,133	20224,735	-12134,570	10880,289	-3,730	-0,286
82,000	7,128	4,230	8302,077	20182,767	-13562,118	10857,498	-3,723	-0,283
82,492	7,128	4,230	9688,044	20232,164	-15108,603	10883,827	-3,709	-0,351
82,984	7,128	4,230	11132,731	20281,561	-16600,559	10910,151	-3,713	-0,367
83,476	7,128	4,230	12556,508	20330,957	-18037,534	10936,473	-3,722	-0,368
83,968	7,128	4,230	13842,628	20380,354	-19419,076	10962,788	-3,718	-0,407
84,460	7,128	4,230	15067,434	20429,751	-20744,732	10989,097	-3,713	-0,447
84,952	7,128	4,230	16309,713	20479,147	-22014,050	11015,408	-3,719	-0,455
85,444	7,128	4,230	17453,892	20528,544	-23226,578	11041,717	-3,720	-0,481
85,936	7,128	4,230	18460,415	20577,941	-24381,862	11068,015	-3,707	-0,543
86,428	7,128	4,230	19517,168	20627,337	-25479,452	11094,316	-3,712	-0,557
86,920	7,128	4,230	20518,923	20676,734	-26518,894	11120,607	-3,717	-0,569
87,412	7,128	4,230	21343,759	20726,131	-27499,735	11146,901	-3,703	-0,635
87,904	7,128	4,230	22176,573	20775,528	-28421,524	11173,183	-3,700	-0,671
88,396	7,128	4,230	22996,484	20824,924	-29283,809	11199,465	-3,704	-0,685
88,888	7,128	4,230	23678,738	20874,321	-30086,135	11225,746	-3,696	-0,734
89,380	7,128	4,230	24286,035	20923,718	-30828,052	11252,021	-3,686	-0,791
89,872	7,128	4,230	24923,976	20973,114	-31509,107	11278,288	-3,690	-0,805
90,364	7,128	4,230	25463,817	21022,511	-32128,848	11304,560	-3,689	-0,837
90,856	7,128	4,230	25866,002	21071,908	-32686,821	11330,822	-3,675	-0,903
91,348	7,128	4,230	26300,343	21121,305	-33182,575	11357,080	-3,676	-0,926
91,840	7,128	4,230	26697,393	21170,701	-33615,657	11383,334	-3,682	-0,937
92,332	7,128	4,230	26917,523	21220,098	-33985,615	11409,584	-3,669	-1,000
92,824	7,128	4,230	27124,565	21269,495	-34291,996	11435,835	-3,664	-1,040
93,316	7,128	4,230	27339,508	21318,891	-34534,348	11462,076	-3,671	-1,048
93,808	7,128	4,230	27416,794	21368,288	-34712,219	11488,313	-3,666	-1,089
94,300	7,128	4,230	27396,069	21417,685	-34825,155	11514,550	-3,656	-1,144
94,797	7,128	4,230	27428,916	21456,637	-34855,075	11535,164	-3,665	-1,139
95,294	7,128	4,230	27359,985	21495,590	-34817,916	11555,769	-3,669	-1,150
95,791	7,128	4,230	27153,493	21534,542	-34713,315	11576,374	-3,661	-1,192
96,288	7,128	4,230	26958,374	21573,495	-34540,908	11596,976	-3,666	-1,199
96,785	7,128	4,230	26739,476	21612,447	-34300,332	11617,573	-3,679	-1,185
97,282	7,128	4,230	26347,235	21651,400	-33991,221	11638,166	-3,674	-1,219
97,779	7,128	4,230	25924,474	21690,353	-33613,212	11658,756	-3,676	-1,235
98,276	7,128	4,230	25525,842	21729,305	-33165,941	11679,340	-3,692	-1,209
98,773	7,128	4,230	24977,723	21768,258	-32649,045	11699,922	-3,696	-1,220
99,270	7,128	4,230	24339,753	21807,210	-32062,158	11720,495	-3,696	-1,239

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
99,767	7,128	4,230	23743,795	21846,163	-31404,918	11741,066	-3,715	-1,207
100,264	7,128	4,230	23045,848	21885,115	-30676,959	11761,636	-3,729	-1,190
100,761	7,128	4,230	22222,269	21924,068	-29877,919	11782,205	-3,733	-1,197
101,258	7,128	4,230	21400,577	21963,020	-29007,432	11802,764	-3,750	-1,171
101,755	7,128	4,230	20552,926	22001,973	-28065,136	11823,319	-3,774	-1,124
102,252	7,128	4,230	19543,860	22040,925	-27050,665	11843,870	-3,783	-1,117
102,748	7,128	4,230	18497,891	22079,878	-25963,680	11864,444	-3,799	-1,095
103,245	7,128	4,230	17482,801	22118,831	-24803,771	11884,987	-3,830	-1,025
103,742	7,128	4,230	16306,298	22157,783	-23570,596	11905,529	-3,848	-0,995
104,239	7,128	4,230	15051,870	22196,736	-22263,791	11926,066	-3,865	-0,967
104,736	7,128	4,230	13837,634	22235,688	-20882,992	11946,600	-3,901	-0,888
105,233	7,128	4,230	12511,777	22274,641	-19427,835	11967,127	-3,930	-0,825
105,730	7,128	4,230	11072,214	22313,593	-17897,957	11987,652	-3,953	-0,780
106,227	7,128	4,230	9644,485	22352,546	-16292,992	12008,170	-3,990	-0,695
106,724	7,128	4,230	8207,541	22391,498	-14612,577	12028,688	-4,037	-0,581
107,221	7,128	4,230	6621,111	22430,451	-12856,348	12049,197	-4,073	-0,499
107,718	7,128	4,230	5007,300	22469,403	-11023,941	12069,708	-4,117	-0,396
108,215	7,128	4,230	-3585,631	22508,356	-9114,993	12090,208	-3,060	-3,436
108,712	7,128	4,230	-5190,555	22547,308	-7129,138	12110,704	-3,130	-3,258
109,209	7,128	4,230	-6849,900	22586,261	-5066,013	12131,199	-3,203	-3,071
109,706	7,128	4,230	-8578,308	22625,214	-2925,255	12151,690	-3,277	-2,879
110,203	7,128	4,230	-10523,157	22664,166	-706,498	12172,177	-3,330	-2,750
110,700	7,128	4,230	-12528,039	22703,119	1590,620	12192,656	-3,385	-2,614
111,110	7,402	4,470	-14227,884	22595,987	3402,077	12136,202	-3,250	-2,488
111,520	7,675	4,711	-15972,333	22488,854	5006,938	12078,377	-3,089	-2,475
111,930	7,949	4,952	-17765,131	22381,722	6406,559	12020,554	-2,906	-2,558
112,340	8,223	5,192	-19610,023	22274,590	7603,665	11962,734	-2,703	-2,725
112,750	8,496	5,433	-21510,753	22167,458	8600,981	11904,915	-2,484	-2,965
113,160	8,770	5,674	-23471,065	22060,326	9401,233	11847,096	-2,251	-3,270
113,570	9,044	5,914	-25494,705	21953,194	10007,147	11789,282	-2,006	-3,632
113,980	9,317	6,155	-27585,417	21846,062	10421,446	11731,467	-1,750	-4,045
114,390	9,591	6,396	-29746,945	21738,929	10646,858	11673,659	-1,484	-4,503
114,800	9,865	6,636	-31983,034	21631,797	10686,108	11615,851	-1,210	-5,002
115,210	9,591	6,396	-29744,900	21524,665	10541,920	11558,224	-1,439	-4,546
115,620	9,317	6,155	-27582,066	21417,533	10217,021	11500,595	-1,656	-4,134
116,030	9,044	5,914	-25490,048	21310,401	9714,136	11442,967	-1,863	-3,767

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
116,440	8,770	5,674	-23465,103	21203,269	9035,990	11385,341	-2,056	-3,451
116,850	8,496	5,433	-21503,484	21096,137	8185,308	11327,713	-2,236	-3,189
117,260	8,223	5,192	-19601,448	20989,005	7164,817	11270,086	-2,401	-2,985
117,670	7,949	4,952	-17755,251	20881,872	5977,241	11212,461	-2,550	-2,847
118,080	7,675	4,711	-15961,146	20774,740	4625,306	11154,833	-2,681	-2,781
118,490	7,402	4,470	-14215,391	20667,608	3111,738	11097,210	-2,791	-2,795
118,900	7,128	4,230	-12514,240	20560,476	1439,261	11039,584	-2,879	-2,901
119,356	7,128	4,230	-10672,688	20518,508	-468,973	11015,790	-2,859	-2,936
119,811	7,128	4,230	-8881,580	20476,541	-2317,014	10993,199	-2,840	-2,966
120,267	7,128	4,230	-7254,095	20434,573	-4104,031	10970,640	-2,805	-3,043
120,722	7,128	4,230	-5717,122	20392,605	-5830,275	10948,044	-2,765	-3,134
121,178	7,128	4,230	-4225,878	20350,638	-7496,151	10925,481	-2,728	-3,218
121,633	7,128	4,230	4208,922	20308,670	-9101,915	10902,881	-3,807	-0,113
122,089	7,128	4,230	5657,445	20266,702	-10647,968	10880,319	-3,782	-0,161
122,544	7,128	4,230	7145,569	20224,735	-12134,570	10857,716	-3,773	-0,165
123,000	7,128	4,230	8583,249	20182,767	-13562,118	10835,148	-3,765	-0,165
123,492	7,128	4,230	9963,991	20232,164	-15108,603	10861,604	-3,749	-0,235
123,984	7,128	4,230	11401,711	20281,561	-16600,559	10888,060	-3,752	-0,255
124,476	7,128	4,230	12818,374	20330,957	-18037,534	10914,514	-3,760	-0,259
124,968	7,128	4,230	14097,381	20380,354	-19419,076	10940,960	-3,755	-0,301
125,460	7,128	4,230	15315,171	20429,751	-20744,732	10967,407	-3,749	-0,345
125,952	7,128	4,230	16550,334	20479,147	-22014,050	10993,852	-3,754	-0,355
126,444	7,128	4,230	17687,397	20528,544	-23226,578	11020,291	-3,753	-0,384
126,936	7,128	4,230	18686,804	20577,941	-24381,862	11046,729	-3,740	-0,450
127,428	7,128	4,230	19736,499	20627,337	-25479,452	11073,167	-3,743	-0,467
127,920	7,128	4,230	20731,136	20676,734	-26518,894	11099,597	-3,747	-0,482
128,412	7,128	4,230	21548,855	20726,131	-27499,735	11126,026	-3,732	-0,551
128,904	7,128	4,230	22374,578	20775,528	-28421,524	11152,457	-3,728	-0,590
129,396	7,128	4,230	23187,371	20824,924	-29283,809	11178,880	-3,731	-0,607
129,888	7,128	4,230	23862,507	20874,321	-30086,135	11205,297	-3,722	-0,660
130,380	7,128	4,230	24462,688	20923,718	-30828,052	11231,717	-3,711	-0,720
130,872	7,128	4,230	25093,511	20973,114	-31509,107	11258,131	-3,714	-0,737
131,364	7,128	4,230	25626,234	21022,511	-32128,848	11284,540	-3,711	-0,772
131,856	7,128	4,230	26021,300	21071,908	-32686,821	11310,951	-3,696	-0,841
132,348	7,128	4,230	26448,507	21121,305	-33182,575	11337,357	-3,697	-0,867
132,840	7,128	4,230	26838,439	21170,701	-33615,657	11363,759	-3,701	-0,882

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
133,332	7,128	4,230	27051,452	21220,098	-33985,615	11390,157	-3,687	-0,948
133,824	7,128	4,230	27251,346	21269,495	-34291,996	11416,552	-3,681	-0,991
134,316	7,128	4,230	27459,173	21318,891	-34534,348	11442,949	-3,687	-1,002
134,808	7,128	4,230	27529,343	21368,288	-34712,219	11469,338	-3,681	-1,046
135,300	7,128	4,230	27501,463	21417,685	-34825,155	11495,720	-3,670	-1,105
135,797	7,128	4,230	27527,124	21456,637	-34855,075	11516,499	-3,678	-1,103
136,294	7,128	4,230	27451,006	21495,590	-34817,916	11537,270	-3,680	-1,117
136,791	7,128	4,230	27237,328	21534,542	-34713,315	11558,044	-3,672	-1,162
137,288	7,128	4,230	27034,982	21573,495	-34540,908	11578,807	-3,676	-1,172
137,785	7,128	4,230	26808,899	21612,447	-34300,332	11599,574	-3,687	-1,161
138,282	7,128	4,230	26409,473	21651,400	-33991,221	11620,332	-3,681	-1,199
138,779	7,128	4,230	25979,488	21690,353	-33613,212	11641,091	-3,682	-1,218
139,276	7,128	4,230	25573,674	21729,305	-33165,941	11661,841	-3,697	-1,195
139,773	7,128	4,230	25018,372	21768,258	-32649,045	11682,595	-3,700	-1,209
140,270	7,128	4,230	24373,220	21807,210	-32062,158	11703,339	-3,699	-1,231
140,767	7,128	4,230	23770,046	21846,163	-31404,918	11724,083	-3,716	-1,203
141,264	7,128	4,230	23064,919	21885,115	-30676,959	11744,822	-3,729	-1,188
141,761	7,128	4,230	22234,160	21924,068	-29877,919	11765,565	-3,733	-1,199
142,258	7,128	4,230	21405,261	21963,020	-29007,432	11786,296	-3,748	-1,176
142,755	7,128	4,230	20550,433	22001,973	-28065,136	11807,026	-3,771	-1,132
143,252	7,128	4,230	19534,190	22040,925	-27050,665	11827,752	-3,779	-1,129
143,748	7,128	4,230	18481,023	22079,878	-25963,680	11848,500	-3,793	-1,110
144,245	7,128	4,230	17458,760	22118,831	-24803,771	11869,221	-3,824	-1,043
144,742	7,128	4,230	16275,083	22157,783	-23570,596	11889,939	-3,841	-1,017
145,239	7,128	4,230	15013,482	22196,736	-22263,791	11910,652	-3,857	-0,992
145,736	7,128	4,230	13792,064	22235,688	-20882,992	11931,362	-3,891	-0,915
146,233	7,128	4,230	12459,036	22274,641	-19427,835	11952,070	-3,919	-0,856
146,730	7,128	4,230	11012,303	22313,593	-17897,957	11972,774	-3,941	-0,814
147,227	7,128	4,230	9578,154	22352,546	-16292,992	11993,475	-3,977	-0,732
147,724	7,128	4,230	8138,326	22391,498	-14612,577	12014,169	-4,024	-0,619
148,221	7,128	4,230	6549,011	22430,451	-12856,348	12034,867	-4,060	-0,539
148,718	7,128	4,230	4932,327	22469,403	-11023,941	12055,554	-4,103	-0,437
149,215	7,128	4,230	-3638,314	22508,356	-9114,993	12076,239	-3,050	-3,466
149,712	7,128	4,230	-5246,401	22547,308	-7129,138	12096,921	-3,119	-3,290
150,209	7,128	4,230	-6908,910	22586,261	-5066,013	12117,602	-3,191	-3,104
150,706	7,128	4,230	-8641,152	22625,214	-2925,255	12138,276	-3,265	-2,914

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
151,203	7,128	4,230	-10589,255	22664,166	-706,498	12158,946	-3,317	-2,787
151,700	7,128	4,230	-12597,391	22703,119	1590,620	12179,616	-3,372	-2,651
152,110	7,402	4,470	-14299,920	22595,987	3402,077	12123,393	-3,238	-2,525
152,520	7,675	4,711	-16047,054	22488,854	5006,938	12065,802	-3,077	-2,511
152,930	7,949	4,952	-17842,536	22381,722	6406,559	12008,206	-2,894	-2,593
153,340	8,223	5,192	-19690,113	22274,590	7603,665	11950,616	-2,691	-2,759
153,750	8,496	5,433	-21593,527	22167,458	8600,981	11893,024	-2,473	-2,999
154,160	8,770	5,674	-23556,524	22060,326	9401,233	11835,433	-2,240	-3,303
154,570	9,044	5,914	-25582,848	21953,194	10007,147	11777,842	-1,995	-3,664
154,980	9,317	6,155	-27676,244	21846,062	10421,446	11720,249	-1,739	-4,076
155,390	9,591	6,396	-29840,457	21738,929	10646,858	11662,661	-1,473	-4,534
155,800	9,865	6,636	-32079,232	21631,797	10686,108	11605,072	-1,199	-5,033
156,210	9,591	6,396	-29838,306	21524,665	10541,920	11547,924	-1,428	-4,578
156,620	9,317	6,155	-27671,941	21417,533	10217,021	11490,773	-1,646	-4,165
157,030	9,044	5,914	-25576,392	21310,401	9714,136	11433,618	-1,852	-3,799
157,440	8,770	5,674	-23547,916	21203,269	9035,990	11376,459	-2,045	-3,482
157,850	8,496	5,433	-21582,766	21096,137	8185,308	11319,296	-2,225	-3,220
158,260	8,223	5,192	-19677,199	20989,005	7164,817	11262,127	-2,390	-3,016
158,670	7,949	4,952	-17827,471	20881,872	5977,241	11204,956	-2,539	-2,878
159,080	7,675	4,711	-16029,836	20774,740	4625,306	11147,782	-2,670	-2,812
159,490	7,402	4,470	-14280,550	20667,608	3111,738	11090,604	-2,781	-2,826
159,900	7,128	4,230	-12575,868	20560,476	1439,261	11033,422	-2,868	-2,931
160,356	7,128	4,230	-10730,392	20518,508	-468,973	11010,094	-2,848	-2,965
160,811	7,128	4,230	-8935,361	20476,541	-2317,014	10987,963	-2,831	-2,993
161,267	7,128	4,230	-7304,343	20434,573	-4104,031	10965,869	-2,796	-3,068
161,722	7,128	4,230	-5763,435	20392,605	-5830,275	10943,731	-2,757	-3,157
162,178	7,128	4,230	-4268,256	20350,638	-7496,151	10921,631	-2,721	-3,239
162,633	7,128	4,230	4178,379	20308,670	-9101,915	10899,486	-3,801	-0,128
163,089	7,128	4,230	5632,452	20266,702	-10647,968	10877,374	-3,777	-0,174
163,544	7,128	4,230	7126,109	20224,735	-12134,570	10855,228	-3,769	-0,175
164,000	7,128	4,230	8569,322	20182,767	-13562,118	10833,106	-3,762	-0,172
164,492	7,128	4,230	9956,074	20232,164	-15108,603	10860,043	-3,748	-0,240
164,984	7,128	4,230	11398,619	20281,561	-16600,559	10886,979	-3,751	-0,257
165,476	7,128	4,230	12820,097	20330,957	-18037,534	10913,912	-3,760	-0,258
165,968	7,128	4,230	14103,918	20380,354	-19419,076	10940,846	-3,756	-0,298
166,460	7,128	4,230	15326,529	20429,751	-20744,732	10967,778	-3,750	-0,339

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
166,952	7,128	4,230	16566,506	20479,147	-22014,050	10994,710	-3,757	-0,347
167,444	7,128	4,230	17708,384	20528,544	-23226,578	11021,644	-3,757	-0,374
167,936	7,128	4,230	18712,605	20577,941	-24381,862	11048,573	-3,744	-0,437
168,428	7,128	4,230	19767,117	20627,337	-25479,452	11075,506	-3,748	-0,452
168,920	7,128	4,230	20766,568	20676,734	-26518,894	11102,436	-3,753	-0,465
169,412	7,128	4,230	21589,101	20726,131	-27499,735	11129,369	-3,739	-0,531
169,904	7,128	4,230	22419,637	20775,528	-28421,524	11156,298	-3,736	-0,568
170,396	7,128	4,230	23237,244	20824,924	-29283,809	11183,226	-3,740	-0,583
170,888	7,128	4,230	23917,194	20874,321	-30086,135	11210,155	-3,732	-0,633
171,380	7,128	4,230	24522,185	20923,718	-30828,052	11237,081	-3,721	-0,690
171,872	7,128	4,230	25157,822	20973,114	-31509,107	11264,007	-3,725	-0,705
172,364	7,128	4,230	25695,358	21022,511	-32128,848	11290,935	-3,723	-0,737
172,856	7,128	4,230	26095,239	21071,908	-32686,821	11317,860	-3,709	-0,804
173,348	7,128	4,230	26527,254	21121,305	-33182,575	11344,787	-3,710	-0,828
173,840	7,128	4,230	26921,999	21170,701	-33615,657	11371,709	-3,716	-0,840
174,332	7,128	4,230	27139,826	21220,098	-33985,615	11398,635	-3,703	-0,904
174,824	7,128	4,230	27344,529	21269,495	-34291,996	11425,558	-3,698	-0,945
175,316	7,128	4,230	27557,169	21318,891	-34534,348	11452,478	-3,704	-0,953
175,808	7,128	4,230	27632,152	21368,288	-34712,219	11479,400	-3,699	-0,995
176,300	7,128	4,230	27609,080	21417,685	-34825,155	11506,319	-3,688	-1,051
176,797	7,128	4,230	27639,603	21456,637	-34855,075	11527,633	-3,697	-1,047
177,294	7,128	4,230	27568,347	21495,590	-34817,916	11548,946	-3,701	-1,058
177,791	7,128	4,230	27359,530	21534,542	-34713,315	11570,252	-3,693	-1,101
178,288	7,128	4,230	27162,042	21573,495	-34540,908	11591,564	-3,698	-1,108
178,785	7,128	4,230	26940,820	21612,447	-34300,332	11612,868	-3,710	-1,095
179,282	7,128	4,230	26546,257	21651,400	-33991,221	11634,174	-3,705	-1,130
179,779	7,128	4,230	26121,129	21690,353	-33613,212	11655,478	-3,706	-1,147
180,276	7,128	4,230	25720,177	21729,305	-33165,941	11676,780	-3,723	-1,122
180,773	7,128	4,230	25169,738	21768,258	-32649,045	11698,081	-3,726	-1,133
181,270	7,128	4,230	24529,448	21807,210	-32062,158	11719,381	-3,727	-1,153
181,767	7,128	4,230	23931,133	21846,163	-31404,918	11740,678	-3,745	-1,122
182,264	7,128	4,230	23230,870	21885,115	-30676,959	11761,976	-3,758	-1,105
182,761	7,128	4,230	22404,973	21924,068	-29877,919	11783,271	-3,763	-1,113
183,258	7,128	4,230	21580,935	21963,020	-29007,432	11804,565	-3,779	-1,088
183,755	7,128	4,230	20730,970	22001,973	-28065,136	11825,858	-3,802	-1,041
184,252	7,128	4,230	19719,590	22040,925	-27050,665	11847,145	-3,812	-1,036
184,748	7,128	4,230	18671,289	22079,878	-25963,680	11868,462	-3,827	-1,014

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
185,245	7,128	4,230	17653,889	22118,831	-24803,771	11889,749	-3,858	-0,945
185,742	7,128	4,230	16475,074	22157,783	-23570,596	11911,038	-3,876	-0,916
186,239	7,128	4,230	15218,336	22196,736	-22263,791	11932,321	-3,893	-0,889
186,736	7,128	4,230	14001,787	22235,688	-20882,992	11953,607	-3,928	-0,810
187,233	7,128	4,230	12673,622	22274,641	-19427,835	11974,890	-3,957	-0,748
187,730	7,128	4,230	11231,752	22313,593	-17897,957	11996,172	-3,980	-0,703
188,227	7,128	4,230	9802,792	22352,546	-16292,992	12017,448	-4,017	-0,619
188,724	7,128	4,230	8369,001	22391,498	-14612,577	12038,728	-4,065	-0,503
189,221	7,128	4,230	6785,723	22430,451	-12856,348	12060,002	-4,101	-0,420
189,718	7,128	4,230	5175,091	22469,403	-11023,941	12081,275	-4,145	-0,314
190,215	7,128	4,230	-3382,485	22508,356	-9114,993	12102,549	-3,095	-3,338
190,712	7,128	4,230	-4986,280	22547,308	-7129,138	12123,820	-3,165	-3,159
191,209	7,128	4,230	-6644,495	22586,261	-5066,013	12145,090	-3,238	-2,971
191,706	7,128	4,230	-8372,845	22625,214	-2925,255	12166,354	-3,313	-2,779
192,203	7,128	4,230	-10316,668	22664,166	-706,498	12187,621	-3,365	-2,649
192,700	7,128	4,230	-12320,523	22703,119	1590,620	12208,884	-3,421	-2,512
193,110	7,402	4,470	-14019,522	22595,987	3402,077	12152,973	-3,284	-2,391
193,520	7,675	4,711	-15763,125	22488,854	5006,938	12095,687	-3,122	-2,382
193,930	7,949	4,952	-17555,076	22381,722	6406,559	12038,397	-2,937	-2,470
194,340	8,223	5,192	-19399,122	22274,590	7603,665	11981,103	-2,733	-2,640
194,750	8,496	5,433	-21299,005	22167,458	8600,981	11923,806	-2,513	-2,884
195,160	8,770	5,674	-23258,471	22060,326	9401,233	11866,503	-2,279	-3,191
195,570	9,044	5,914	-25281,265	21953,194	10007,147	11809,198	-2,033	-3,556
195,980	9,317	6,155	-27371,130	21846,062	10421,446	11751,889	-1,775	-3,971
196,390	9,591	6,396	-29531,812	21738,929	10646,858	11694,576	-1,509	-4,432
196,800	9,865	6,636	-31767,796	21631,797	10686,108	11637,260	-1,234	-4,934
197,210	9,591	6,396	-29542,014	21524,665	10541,920	11578,427	-1,462	-4,479
197,620	9,317	6,155	-27390,793	21417,533	10217,021	11519,610	-1,679	-4,068
198,030	9,044	5,914	-25310,389	21310,401	9714,136	11460,801	-1,885	-3,703
198,440	8,770	5,674	-23297,057	21203,269	9035,990	11402,009	-2,078	-3,388
198,850	8,496	5,433	-21347,052	21096,137	8185,308	11343,223	-2,257	-3,128
199,260	8,223	5,192	-19456,629	20989,005	7164,817	11284,451	-2,422	-2,926
199,670	7,949	4,952	-17622,045	20881,872	5977,241	11225,688	-2,570	-2,790
200,080	7,675	4,711	-15839,554	20774,740	4625,306	11166,941	-2,700	-2,726
200,490	7,402	4,470	-14105,412	20667,608	3111,738	11108,203	-2,810	-2,743
200,900	7,128	4,230	-12415,875	20560,476	1439,261	11049,472	-2,896	-2,851

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
201,356	7,128	4,230	-10587,226	20518,508	-468,973	11024,500	-2,874	-2,893
201,811	7,128	4,230	-8809,022	20476,541	-2317,014	11000,730	-2,853	-2,930
202,267	7,128	4,230	-7195,434	20434,573	-4104,031	10977,008	-2,815	-3,014
202,722	7,128	4,230	-5671,270	20392,605	-5830,275	10953,244	-2,774	-3,111
203,178	7,128	4,230	-4192,835	20350,638	-7496,151	10929,521	-2,734	-3,201
203,633	7,128	4,230	4262,369	20308,670	-9101,915	10905,765	-3,816	-0,087
204,089	7,128	4,230	5699,966	20266,702	-10647,968	10882,048	-3,789	-0,141
204,544	7,128	4,230	7177,135	20224,735	-12134,570	10858,304	-3,778	-0,150
205,000	7,128	4,230	8603,860	20182,767	-13562,118	10834,591	-3,768	-0,156
205,492	7,128	4,230	9972,526	20232,164	-15108,603	10859,812	-3,750	-0,232
205,984	7,128	4,230	11393,021	20281,561	-16600,559	10885,024	-3,750	-0,260
206,476	7,128	4,230	12792,449	20330,957	-18037,534	10910,230	-3,755	-0,273
206,968	7,128	4,230	14054,219	20380,354	-19419,076	10935,425	-3,747	-0,323
207,460	7,128	4,230	15254,767	20429,751	-20744,732	10960,612	-3,738	-0,375
207,952	7,128	4,230	16472,691	20479,147	-22014,050	10985,787	-3,741	-0,394
208,444	7,128	4,230	17592,515	20528,544	-23226,578	11010,959	-3,737	-0,432
208,936	7,128	4,230	18574,682	20577,941	-24381,862	11036,117	-3,720	-0,506
209,428	7,128	4,230	19607,116	20627,337	-25479,452	11061,269	-3,721	-0,531
209,920	7,128	4,230	20584,510	20676,734	-26518,894	11086,410	-3,722	-0,555
210,412	7,128	4,230	21384,987	20726,131	-27499,735	11111,544	-3,704	-0,632
210,904	7,128	4,230	22193,434	20775,528	-28421,524	11136,668	-3,697	-0,680
211,396	7,128	4,230	22988,982	20824,924	-29283,809	11161,782	-3,697	-0,705
211,888	7,128	4,230	23646,872	20874,321	-30086,135	11186,888	-3,685	-0,767
212,380	7,128	4,230	24229,767	20923,718	-30828,052	11211,985	-3,671	-0,835
212,872	7,128	4,230	24843,341	20973,114	-31509,107	11237,074	-3,671	-0,861
213,364	7,128	4,230	25358,815	21022,511	-32128,848	11262,151	-3,665	-0,904
213,856	7,128	4,230	25736,633	21071,908	-32686,821	11287,222	-3,647	-0,981
214,348	7,128	4,230	26146,545	21121,305	-33182,575	11312,283	-3,645	-1,016
214,840	7,128	4,230	26519,225	21170,701	-33615,657	11337,332	-3,646	-1,039
215,332	7,128	4,230	26714,988	21220,098	-33985,615	11362,376	-3,629	-1,114
215,824	7,128	4,230	26897,584	21269,495	-34291,996	11387,409	-3,620	-1,166
216,316	7,128	4,230	27088,157	21318,891	-34534,348	11412,433	-3,623	-1,185
216,808	7,128	4,230	27141,073	21368,288	-34712,219	11437,450	-3,614	-1,237
217,300	7,128	4,230	27095,897	21417,685	-34825,155	11462,456	-3,600	-1,305
217,797	7,128	4,230	27104,129	21456,637	-34855,075	11481,849	-3,605	-1,311
218,294	7,128	4,230	27010,581	21495,590	-34817,916	11501,235	-3,604	-1,334

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
218,791	7,128	4,230	26779,474	21534,542	-34713,315	11520,611	-3,593	-1,388
219,288	7,128	4,230	26559,663	21573,495	-34540,908	11539,981	-3,594	-1,406
219,785	7,128	4,230	26316,150	21612,447	-34300,332	11559,343	-3,602	-1,404
220,282	7,128	4,230	25899,295	21651,400	-33991,221	11578,694	-3,593	-1,450
220,779	7,128	4,230	25451,857	21690,353	-33613,212	11598,040	-3,591	-1,478
221,276	7,128	4,230	25028,613	21729,305	-33165,941	11617,376	-3,603	-1,464
221,773	7,128	4,230	24455,881	21768,258	-32649,045	11636,703	-3,603	-1,486
222,270	7,128	4,230	23793,298	21807,210	-32062,158	11656,024	-3,599	-1,517
222,767	7,128	4,230	23172,692	21846,163	-31404,918	11675,338	-3,614	-1,497
223,264	7,128	4,230	22450,135	21885,115	-30676,959	11694,642	-3,623	-1,491
223,761	7,128	4,230	21601,946	21924,068	-29877,919	11713,938	-3,624	-1,510
224,258	7,128	4,230	20755,643	21963,020	-29007,432	11733,224	-3,636	-1,496
224,755	7,128	4,230	19883,386	22001,973	-28065,136	11752,505	-3,656	-1,461
225,252	7,128	4,230	18849,713	22040,925	-27050,665	11771,779	-3,661	-1,466
225,748	7,128	4,230	17779,179	22079,878	-25963,680	11791,064	-3,672	-1,455
226,245	7,128	4,230	16739,489	22118,831	-24803,771	11810,321	-3,700	-1,397
226,742	7,128	4,230	15538,383	22157,783	-23570,596	11829,570	-3,714	-1,379
227,239	7,128	4,230	14259,355	22196,736	-22263,791	11848,808	-3,727	-1,364
227,736	7,128	4,230	13020,616	22235,688	-20882,992	11868,040	-3,758	-1,296
228,233	7,128	4,230	11670,163	22274,641	-19427,835	11887,264	-3,783	-1,245
228,730	7,128	4,230	10206,005	22313,593	-17897,957	11906,478	-3,802	-1,211
229,227	7,128	4,230	8756,528	22352,546	-16292,992	11925,684	-3,835	-1,137
229,724	7,128	4,230	7300,800	22391,498	-14612,577	11944,881	-3,880	-1,032
230,221	7,128	4,230	5695,585	22430,451	-12856,348	11964,074	-3,912	-0,960
230,718	7,128	4,230	4063,220	22469,403	-11023,941	11983,255	-3,953	-0,865
231,215	7,128	4,230	-4113,419	22508,356	-9114,993	12002,425	-2,962	-3,716
231,712	7,128	4,230	-5731,444	22547,308	-7129,138	12021,591	-3,030	-3,545
232,209	7,128	4,230	-7403,891	22586,261	-5066,013	12040,750	-3,100	-3,364
232,706	7,128	4,230	-9151,407	22625,214	-2925,255	12059,895	-3,171	-3,182
233,203	7,128	4,230	-11109,552	22664,166	-706,498	12079,034	-3,222	-3,060
233,700	7,128	4,230	-13127,729	22703,119	1590,620	12098,166	-3,274	-2,930
234,110	7,402	4,470	-14838,542	22595,987	3402,077	12041,180	-3,144	-2,792
234,520	7,675	4,711	-16593,960	22488,854	5006,938	11982,831	-2,987	-2,768
234,930	7,949	4,952	-18397,727	22381,722	6406,559	11924,497	-2,807	-2,842
235,340	8,223	5,192	-20253,588	22274,590	7603,665	11866,173	-2,607	-3,000
235,750	8,496	5,433	-22165,287	22167,458	8600,981	11807,861	-2,391	-3,232

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
236,160	8,770	5,674	-24136,568	22060,326	9401,233	11749,561	-2,161	-3,529
236,570	9,044	5,914	-26171,177	21953,194	10007,147	11691,269	-1,918	-3,884
236,980	9,317	6,155	-28272,857	21846,062	10421,446	11632,989	-1,664	-4,290
237,390	9,591	6,396	-30445,354	21738,929	10646,858	11574,719	-1,400	-4,743
237,800	9,865	6,636	-32702,793	21631,797	10686,108	11516,466	-1,126	-5,240
238,210	9,591	6,396	-30432,821	21524,665	10541,920	11463,924	-1,356	-4,782
238,620	9,317	6,155	-28237,409	21417,533	10217,021	11411,340	-1,575	-4,367
239,030	9,044	5,914	-26112,814	21310,401	9714,136	11358,710	-1,782	-3,998
239,440	8,770	5,674	-24055,291	21203,269	9035,990	11306,032	-1,977	-3,678
239,850	8,496	5,433	-22061,095	21096,137	8185,308	11253,309	-2,158	-3,413
240,260	8,223	5,192	-20126,482	20989,005	7164,817	11200,543	-2,324	-3,206
240,670	7,949	4,952	-18247,707	20881,872	5977,241	11147,732	-2,474	-3,064
241,080	7,675	4,711	-16421,025	20774,740	4625,306	11094,873	-2,606	-2,993
241,490	7,402	4,470	-14642,693	20667,608	3111,738	11041,971	-2,719	-3,003
241,900	7,128	4,230	-12908,964	20560,476	1439,261	10989,024	-2,808	-3,103
242,356	7,128	4,230	-11031,215	20518,508	-468,973	10970,200	-2,794	-3,120
242,811	7,128	4,230	-9203,910	20476,541	-2317,014	10952,557	-2,782	-3,132
243,267	7,128	4,230	-7549,284	20434,573	-4104,031	10934,933	-2,752	-3,194
243,722	7,128	4,230	-5974,869	20392,605	-5830,275	10917,249	-2,719	-3,265
244,178	7,128	4,230	-4446,183	20350,638	-7496,151	10899,579	-2,689	-3,330
244,633	7,128	4,230	3968,289	20308,670	-9101,915	10881,852	-3,765	-0,232
245,089	7,128	4,230	5479,218	20266,702	-10647,968	10864,138	-3,751	-0,250
245,544	7,128	4,230	7029,555	20224,735	-12134,570	10846,370	-3,752	-0,223
246,000	7,128	4,230	8529,448	20182,767	-13562,118	10828,613	-3,755	-0,192
246,492	7,128	4,230	9976,151	20232,164	-15108,603	10860,239	-3,751	-0,230
246,984	7,128	4,230	11461,026	20281,561	-16600,559	10891,885	-3,762	-0,226
247,476	7,128	4,230	12924,837	20330,957	-18037,534	10923,557	-3,778	-0,206
247,968	7,128	4,230	14250,991	20380,354	-19419,076	10955,251	-3,781	-0,224
248,460	7,128	4,230	15515,744	20429,751	-20744,732	10986,968	-3,784	-0,244
248,952	7,128	4,230	16798,007	20479,147	-22014,050	11018,706	-3,798	-0,231
249,444	7,128	4,230	17982,171	20528,544	-23226,578	11050,466	-3,805	-0,236
249,936	7,128	4,230	19028,678	20577,941	-24381,862	11082,251	-3,800	-0,278
250,428	7,128	4,230	20125,110	20627,337	-25479,452	11114,056	-3,812	-0,271
250,920	7,128	4,230	21166,802	20676,734	-26518,894	11145,884	-3,824	-0,263
251,412	7,128	4,230	22031,576	20726,131	-27499,735	11177,735	-3,818	-0,308
251,904	7,128	4,230	22903,879	20775,528	-28421,524	11209,608	-3,822	-0,323
252,396	7,128	4,230	23763,684	20824,924	-29283,809	11241,504	-3,833	-0,316

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
252,888	7,128	4,230	24485,832	20874,321	-30086,135	11273,421	-3,833	-0,345
253,380	7,128	4,230	25132,468	20923,718	-30828,052	11305,362	-3,829	-0,381
253,872	7,128	4,230	25810,263	20973,114	-31509,107	11337,325	-3,841	-0,375
254,364	7,128	4,230	26389,958	21022,511	-32128,848	11369,309	-3,847	-0,386
254,856	7,128	4,230	26831,996	21071,908	-32686,821	11401,316	-3,840	-0,431
255,348	7,128	4,230	27305,539	21121,305	-33182,575	11433,344	-3,849	-0,433
255,840	7,128	4,230	27742,408	21170,701	-33615,657	11465,396	-3,861	-0,424
256,332	7,128	4,230	28002,358	21220,098	-33985,615	11497,472	-3,856	-0,466
256,824	7,128	4,230	28248,559	21269,495	-34291,996	11529,568	-3,858	-0,486
257,316	7,128	4,230	28503,292	21318,891	-34534,348	11561,684	-3,872	-0,473
257,808	7,128	4,230	28620,369	21368,288	-34712,219	11593,825	-3,875	-0,493
258,300	7,128	4,230	28639,346	21417,685	-34825,155	11625,988	-3,872	-0,528
258,797	7,128	4,230	28711,843	21456,637	-34855,075	11652,554	-3,888	-0,502
259,294	7,128	4,230	28683,083	21495,590	-34817,916	11679,136	-3,899	-0,491
259,791	7,128	4,230	28516,762	21534,542	-34713,315	11705,739	-3,899	-0,513
260,288	7,128	4,230	28361,308	21573,495	-34540,908	11732,357	-3,911	-0,498
260,785	7,128	4,230	28182,565	21612,447	-34300,332	11758,990	-3,931	-0,463
261,282	7,128	4,230	27830,481	21651,400	-33991,221	11785,642	-3,934	-0,476
261,779	7,128	4,230	27447,572	21690,353	-33613,212	11812,310	-3,943	-0,472
262,276	7,128	4,230	27089,090	21729,305	-33165,941	11838,996	-3,967	-0,425
262,773	7,128	4,230	26581,121	21768,258	-32649,045	11865,699	-3,978	-0,414
263,270	7,128	4,230	25983,301	21807,210	-32062,158	11892,417	-3,986	-0,412
263,767	7,128	4,230	25427,479	21846,163	-31404,918	11919,152	-4,012	-0,359
264,264	7,128	4,230	24769,686	21885,115	-30676,959	11945,907	-4,033	-0,321
264,761	7,128	4,230	23986,261	21924,068	-29877,919	11972,675	-4,045	-0,307
265,258	7,128	4,230	23205,096	21963,020	-29007,432	11999,460	-4,069	-0,259
265,755	7,128	4,230	22397,612	22001,973	-28065,136	12026,265	-4,100	-0,191
266,252	7,128	4,230	21428,714	22040,925	-27050,665	12053,083	-4,117	-0,164
266,748	7,128	4,230	20423,773	22079,878	-25963,680	12079,941	-4,140	-0,120
267,245	7,128	4,230	19448,877	22118,831	-24803,771	12106,797	-4,179	-0,029
267,742	7,128	4,230	18312,565	22157,783	-23570,596	12133,668	-4,204	0,022
268,239	7,128	4,230	17098,330	22196,736	-22263,791	12160,556	-4,229	0,071
268,736	7,128	4,230	15925,781	22235,688	-20882,992	12187,462	-4,272	0,173
269,233	7,128	4,230	14640,153	22274,641	-19427,835	12214,382	-4,308	0,257
269,730	7,128	4,230	13240,820	22313,593	-17897,957	12241,318	-4,339	0,323
270,227	7,128	4,230	11880,178	22352,546	-16292,992	12268,275	-4,388	0,441
270,724	7,128	4,230	10489,861	22391,498	-14612,577	12295,245	-4,444	0,580

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
271,221	7,128	4,230	8950,057	22430,451	-12856,348	12322,232	-4,488	0,685
271,718	7,128	4,230	7385,942	22469,403	-11023,941	12349,239	-4,540	0,814
272,215	7,128	4,230	5840,864	22508,356	-9114,993	12376,258	-4,608	0,987
272,712	7,128	4,230	4122,443	22547,308	-7129,138	12403,294	-4,661	1,115
273,209	7,128	4,230	-3605,201	22586,261	-5066,013	12430,350	-3,768	-1,457
273,706	7,128	4,230	-5351,000	22625,214	-2925,255	12457,420	-3,840	-1,270
274,203	7,128	4,230	-7239,870	22664,166	-706,498	12484,505	-3,903	-1,113
274,700	7,128	4,230	-9188,772	22703,119	1590,620	12511,610	-3,968	-0,948
275,110	7,402	4,470	-10842,434	22595,987	3402,077	12458,645	-3,809	-0,891
275,520	7,675	4,711	-12540,701	22488,854	5006,938	12404,266	-3,627	-0,939
275,930	7,949	4,952	-14287,316	22381,722	6406,559	12349,841	-3,424	-1,077
276,340	8,223	5,192	-16086,025	22274,590	7603,665	12295,369	-3,204	-1,295
276,750	8,496	5,433	-17940,572	22167,458	8600,981	12240,854	-2,969	-1,581
277,160	8,770	5,674	-19854,702	22060,326	9401,233	12186,291	-2,721	-1,927
277,570	9,044	5,914	-21832,159	21953,194	10007,147	12131,686	-2,462	-2,328
277,980	9,317	6,155	-23924,896	21846,062	10421,446	12077,030	-2,188	-2,791
278,390	9,591	6,396	-26091,981	21738,929	10646,858	12022,334	-1,906	-3,297
278,800	9,865	6,636	-28333,627	21631,797	10686,108	11967,591	-1,616	-3,841
279,210	9,591	6,396	-26193,428	21524,665	10541,920	11759,508	-1,834	-3,416
279,620	9,317	6,155	-24127,790	21417,533	10217,021	11552,905	-2,040	-3,036
280,030	9,044	5,914	-22132,968	21310,401	9714,136	11347,786	-2,234	-2,705
280,440	8,770	5,674	-20205,218	21203,269	9035,990	11144,145	-2,415	-2,426
280,850	8,496	5,433	-18340,795	21096,137	8185,308	10941,985	-2,581	-2,204
281,260	8,223	5,192	-16535,955	20989,005	7164,817	10741,304	-2,730	-2,044
281,670	7,949	4,952	-14786,952	20881,872	5977,241	10542,107	-2,863	-1,953
282,080	7,675	4,711	-13090,044	20774,740	4625,306	10344,390	-2,976	-1,938
282,490	7,402	4,470	-11441,485	20667,608	3111,738	10148,153	-3,066	-2,009
282,900	7,128	4,230	-9847,616	20560,476	1439,261	9953,397	-3,131	-2,181
283,356	7,128	4,230	-8260,067	20518,508	-468,973	9774,303	-3,045	-2,403
283,811	7,128	4,230	-6718,247	20476,541	-2317,014	9597,051	-2,962	-2,617
284,267	7,128	4,230	-5222,156	20434,573	-4104,031	9420,474	-2,882	-2,824
284,722	7,128	4,230	-3771,795	20392,605	-5830,275	9244,492	-2,804	-3,024
285,178	7,128	4,230	4840,610	20350,638	-7496,151	9069,184	-3,877	0,065
285,633	7,128	4,230	6252,601	20308,670	-9101,915	8894,478	-3,812	-0,097
286,089	7,128	4,230	7595,325	20266,702	-10647,968	8720,444	-3,746	-0,262
286,544	7,128	4,230	8967,679	20224,735	-12134,570	8547,012	-3,695	-0,388
287,000	7,128	4,230	10289,587	20182,767	-13562,118	8374,247	-3,644	-0,508

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
287,492	7,128	4,230	11542,510	22786,556	-17016,125	9265,556	-3,801	-1,470
287,984	7,128	4,230	12820,758	22859,746	-18710,817	9105,640	-3,719	-1,743
288,476	7,128	4,230	14069,053	22932,936	-20345,998	8944,499	-3,642	-2,003
288,968	7,128	4,230	15179,692	23006,127	-21920,999	8782,131	-3,553	-2,298
289,460	7,128	4,230	16235,996	23079,317	-23435,148	8618,536	-3,464	-2,592
289,952	7,128	4,230	17302,429	23152,507	-24887,777	8453,717	-3,387	-2,853
290,444	7,128	4,230	18270,762	23225,697	-26278,213	8287,672	-3,303	-3,131
290,936	7,128	4,230	19101,925	23298,887	-27605,788	8120,402	-3,208	-3,443
291,428	7,128	4,230	19986,209	23372,078	-28869,830	7951,902	-3,130	-3,703
291,920	7,128	4,230	20811,655	23445,268	-30069,670	7782,178	-3,054	-3,961
292,412	7,128	4,230	21460,182	23518,458	-31204,636	7611,229	-2,960	-4,271
292,904	7,128	4,230	22116,821	23591,648	-32274,059	7439,051	-2,877	-4,547
293,396	7,128	4,230	22759,850	23664,838	-33277,269	7265,647	-2,802	-4,801
293,888	7,128	4,230	23265,222	23738,029	-34213,594	7091,016	-2,716	-5,087
294,380	7,128	4,230	23690,942	23811,219	-35082,365	6915,158	-2,627	-5,379
294,872	7,128	4,230	24151,303	23884,409	-35882,911	6738,071	-2,555	-5,625
295,364	7,128	4,230	24513,565	23957,599	-36614,563	6559,759	-2,478	-5,884
295,856	7,128	4,230	24738,170	24030,789	-37276,649	6380,220	-2,390	-6,175
296,348	7,128	4,230	24983,373	24103,980	-37868,499	6199,454	-2,316	-6,426
296,840	7,128	4,230	25202,011	24177,170	-38389,444	6017,458	-2,249	-6,657
297,332	7,128	4,230	25243,731	24250,360	-38838,812	5834,237	-2,165	-6,936
297,824	7,128	4,230	25253,299	24323,550	-39215,933	5649,787	-2,088	-7,198
298,316	7,128	4,230	25288,849	24396,740	-39520,138	5464,111	-2,026	-7,415
298,808	7,128	4,230	25186,743	24469,931	-39750,755	5277,203	-1,953	-7,662
299,300	7,128	4,230	24986,538	24543,121	-39907,115	5089,070	-1,877	-7,920
299,782	7,128	4,230	24814,344	24496,432	-39769,941	4879,857	-1,831	-8,025
300,265	7,128	4,230	24578,805	24449,743	-39510,716	4671,424	-1,795	-8,102
300,747	7,128	4,230	24205,677	24403,053	-39130,147	4463,777	-1,757	-8,187
301,229	7,128	4,230	23794,290	24356,364	-38628,932	4256,914	-1,731	-8,234
301,712	7,128	4,230	23417,047	24309,675	-38007,772	4050,836	-1,731	-8,210
302,194	7,128	4,230	22879,062	24262,986	-37267,352	3845,528	-1,724	-8,205
302,676	7,128	4,230	22272,947	24216,297	-36408,401	3641,017	-1,725	-8,176
303,159	7,128	4,230	21673,236	24169,608	-35431,606	3437,288	-1,746	-8,091
303,641	7,128	4,230	21004,992	24122,919	-34337,645	3234,323	-1,775	-7,983
304,124	7,128	4,230	20222,312	24076,230	-33127,262	3032,160	-1,805	-7,873
304,606	7,128	4,230	19383,078	24029,540	-31801,136	2830,781	-1,843	-7,737
305,088	7,128	4,230	18581,989	23982,851	-30359,939	2630,156	-1,907	-7,530

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,0}$ [kN.m]	P_0 [kN]	P_0 x e [kN.m]	$M_{PE,Hip,0}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
305,571	7,128	4,230	17622,634	23936,162	-28804,429	2430,342	-1,964	-7,343
306,053	7,128	4,230	16606,726	23889,473	-27135,278	2231,309	-2,029	-7,130
306,535	7,128	4,230	15574,108	23842,784	-25353,187	2033,063	-2,111	-6,872
307,018	7,128	4,230	14472,720	23796,095	-23458,817	1835,557	-2,199	-6,594
307,500	7,128	4,230	13280,049	23749,406	-21452,945	1638,872	-2,291	-6,307
307,910	7,737	4,529	12220,955	23702,717	-19654,961	1471,860	-2,176	-5,599
308,320	8,346	4,828	11164,583	23656,027	-17778,414	1305,508	-2,093	-4,952
308,730	8,955	5,128	10002,215	23609,338	-15823,809	1139,818	-2,021	-4,395
309,140	9,564	5,427	8783,525	23562,649	-13791,653	974,788	-1,963	-3,895
309,550	10,173	5,726	7503,360	23515,960	-11682,453	810,420	-1,915	-3,445
309,960	10,782	6,025	6181,062	23469,271	-9496,713	646,714	-1,878	-3,030
310,370	11,391	6,325	4756,358	23422,582	-7234,941	483,665	-1,844	-2,664
310,780	12,001	6,624	3254,715	23375,893	-4897,642	321,280	-1,813	-2,332
311,190	12,610	6,923	1670,981	23329,204	-2485,322	159,555	-1,786	-2,032
311,600	13,219	7,222	0,000	23282,514	1,512	-1,512	-1,761	-1,761

F.2 Longo Prazo

v_{sup} [m]	v_{inf} [m]	f_{ctm} [MPa]	f_{ctk} [MPa]
0,674	1,926	3,200	2,200

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
0,000	13,219	7,222	0,000	18018,063	0,000	0,000	-1,363	-1,363
0,410	12,665	6,950	1565,242	18057,000	-1923,660	198,230	-1,410	-1,470
0,820	12,111	6,678	3043,372	18092,421	-3790,666	398,425	-1,459	-1,594
1,230	11,558	6,406	4439,511	18123,745	-5598,197	599,278	-1,509	-1,736
1,640	11,004	6,134	5758,779	18150,420	-7344,469	800,630	-1,563	-1,896
2,050	10,450	5,862	6975,674	18171,606	-9027,440	1002,283	-1,618	-2,084
2,460	9,896	5,590	8148,576	18179,051	-10640,534	1205,848	-1,682	-2,280
2,870	9,343	5,318	9261,558	18187,807	-12190,108	1407,740	-1,754	-2,498
3,280	8,789	5,046	10318,217	18189,788	-13670,325	1609,240	-1,837	-2,735
3,690	8,235	4,774	11268,882	18183,352	-15078,148	1809,956	-1,926	-3,015
4,100	7,682	4,502	12222,268	18169,931	-16412,980	2009,771	-2,039	-3,298
4,582	7,128	4,230	13288,578	18136,475	-17879,414	2244,792	-2,171	-3,613
5,065	7,128	4,230	14265,393	18160,017	-19310,425	2484,540	-2,140	-3,714
5,547	7,128	4,230	15173,437	18184,002	-20654,618	2724,957	-2,112	-3,806
6,029	7,128	4,230	16064,772	18210,611	-21914,383	2966,445	-2,095	-3,868
6,512	7,128	4,230	16899,554	18239,150	-23088,976	3208,986	-2,084	-3,916
6,994	7,128	4,230	17576,071	18266,482	-24174,198	3452,080	-2,061	-3,995
7,476	7,128	4,230	18290,731	18299,681	-25179,122	3697,069	-2,059	-4,020
7,959	7,128	4,230	18948,839	18335,860	-26100,085	3943,582	-2,061	-4,033
8,441	7,128	4,230	19492,510	18373,090	-26934,160	4191,314	-2,060	-4,058
8,924	7,128	4,230	19967,648	18413,220	-27683,666	4440,716	-2,061	-4,075
9,406	7,128	4,230	20449,190	18459,334	-28353,085	4692,708	-2,078	-4,052
9,888	7,128	4,230	20862,602	18508,746	-28938,116	4946,811	-2,098	-4,021
10,371	7,128	4,230	21115,273	18557,860	-29432,567	5202,126	-2,107	-4,022
10,853	7,128	4,230	21402,087	18614,481	-29848,207	5460,946	-2,136	-3,971
11,335	7,128	4,230	21650,642	18675,825	-30180,082	5722,707	-2,173	-3,898
11,818	7,128	4,230	21761,608	18737,907	-30420,980	5986,328	-2,203	-3,846
12,300	7,128	4,230	21809,270	18803,714	-30574,839	6252,821	-2,238	-3,782
12,797	7,128	4,230	21882,852	18859,867	-30636,770	6525,166	-2,291	-3,661
13,294	7,128	4,230	21854,655	18914,851	-30637,712	6798,599	-2,337	-3,557

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
13,791	7,128	4,230	21688,898	18967,186	-30574,780	7072,521	-2,372	-3,487
14,288	7,128	4,230	21552,485	19023,552	-30458,243	7349,406	-2,421	-3,378
14,785	7,128	4,230	21373,331	19080,973	-30282,720	7628,226	-2,473	-3,260
15,282	7,128	4,230	21020,835	19134,215	-30039,412	7906,862	-2,507	-3,191
15,779	7,128	4,230	20648,428	19189,343	-29737,435	8187,732	-2,549	-3,103
16,276	7,128	4,230	20288,702	19247,520	-29377,936	8471,425	-2,602	-2,982
16,773	7,128	4,230	19779,489	19302,372	-28950,595	8755,171	-2,642	-2,897
17,270	7,128	4,230	19180,424	19356,209	-28458,562	9039,918	-2,678	-2,824
17,767	7,128	4,230	18627,257	19414,044	-27908,629	9328,030	-2,731	-2,702
18,264	7,128	4,230	17967,515	19470,024	-27291,660	9616,778	-2,778	-2,598
18,761	7,128	4,230	17182,141	19523,459	-26606,390	9905,740	-2,816	-2,520
19,258	7,128	4,230	16397,864	19578,800	-25858,498	10197,128	-2,864	-2,411
19,755	7,128	4,230	15587,842	19634,847	-25045,692	10490,380	-2,919	-2,284
20,252	7,128	4,230	14616,406	19686,885	-24161,568	10782,942	-2,959	-2,198
20,748	7,128	4,230	13603,701	19738,878	-23210,903	11076,895	-3,003	-2,100
21,245	7,128	4,230	12625,779	19792,899	-22195,502	11373,392	-3,064	-1,956
21,742	7,128	4,230	11486,442	19842,648	-21107,845	11668,826	-3,110	-1,851
22,239	7,128	4,230	10269,182	19890,617	-19950,706	11964,524	-3,154	-1,751
22,736	7,128	4,230	9084,793	19939,540	-18726,529	12262,098	-3,215	-1,604
23,233	7,128	4,230	7795,741	19985,314	-17431,096	12559,005	-3,270	-1,473
23,730	7,128	4,230	6392,983	20027,649	-16064,377	12854,932	-3,317	-1,360
24,227	7,128	4,230	4986,517	20068,806	-14628,351	13151,226	-3,375	-1,218
24,724	7,128	4,230	-3920,587	20107,574	-13122,099	13447,025	-2,248	-4,458
25,221	7,128	4,230	-5397,589	20141,443	-11544,369	13740,523	-2,316	-4,283
25,718	7,128	4,230	-6929,012	20172,230	-9896,902	14032,784	-2,385	-4,102
26,215	7,128	4,230	-8514,857	20083,433	-8132,995	14241,076	-2,434	-3,913
26,712	7,128	4,230	-10155,123	20131,487	-6365,290	14545,856	-2,510	-3,723
27,209	7,128	4,230	-11849,811	20175,777	-4525,351	14849,156	-2,587	-3,525
27,706	7,128	4,230	-13598,920	20215,788	-2613,736	15150,437	-2,667	-3,320
28,203	7,128	4,230	-15402,450	20251,005	-631,274	15449,137	-2,748	-3,107
28,700	7,128	4,230	-17260,402	20280,918	1420,917	15744,661	-2,830	-2,888
29,110	7,402	4,470	-18947,462	20215,327	3043,642	15901,554	-2,731	-2,732
29,520	7,675	4,711	-20701,730	20143,325	4484,728	16068,191	-2,603	-2,685
29,930	7,949	4,952	-22504,346	20073,782	5745,933	16235,217	-2,454	-2,729
30,340	8,223	5,192	-24359,056	20007,946	6829,922	16403,742	-2,287	-2,851
30,750	8,496	5,433	-26269,605	19946,349	7739,190	16574,329	-2,105	-3,041

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
31,160	8,770	5,674	-28216,089	19897,657	8479,590	16721,915	-1,911	-3,292
31,570	9,044	5,914	-30249,236	19843,315	9045,379	16895,762	-1,703	-3,597
31,980	9,317	6,155	-32349,455	19791,788	9441,476	17070,838	-1,485	-3,951
32,390	9,591	6,396	-34520,490	19741,926	9668,806	17246,225	-1,257	-4,349
32,800	9,865	6,636	-36766,086	19692,312	9728,002	17420,728	-1,019	-4,787
33,210	9,591	6,396	-34486,155	19550,563	9575,084	17267,669	-1,233	-4,340
33,620	9,317	6,155	-32280,784	19409,226	9258,978	17115,373	-1,436	-3,931
34,030	9,044	5,914	-30149,757	19269,696	8783,901	16965,069	-1,629	-3,564
34,440	8,770	5,674	-28134,013	19133,506	8153,939	16818,095	-1,806	-3,255
34,850	8,496	5,433	-26181,596	19001,037	7372,409	16674,770	-1,972	-2,993
35,260	8,223	5,192	-24313,868	18863,507	6439,256	16559,092	-2,123	-2,782
35,670	7,949	4,952	-22476,909	18739,406	5363,980	16423,513	-2,264	-2,626
36,080	7,675	4,711	-20692,042	18619,673	4145,500	16292,110	-2,390	-2,530
36,490	7,402	4,470	-18955,524	18503,639	2785,928	16164,277	-2,499	-2,502
36,900	7,128	4,230	-17278,121	18383,910	1286,899	16051,038	-2,589	-2,552
37,356	7,128	4,230	-15446,856	18354,572	-419,514	15995,329	-2,596	-2,516
37,811	7,128	4,230	-13666,035	18325,450	-2073,608	15940,975	-2,603	-2,479
38,267	7,128	4,230	-11976,097	18296,336	-3674,593	15886,752	-2,604	-2,459
38,722	7,128	4,230	-10450,645	18266,332	-5222,370	15831,816	-2,588	-2,490
39,178	7,128	4,230	-8970,921	18235,935	-6717,200	15776,663	-2,572	-2,518
39,633	7,128	4,230	-7536,927	18328,687	-8214,528	15827,921	-2,584	-2,537
40,089	7,128	4,230	-6148,662	18319,006	-9624,663	15790,621	-2,573	-2,562
40,544	7,128	4,230	-4806,126	18309,874	-10985,679	15753,790	-2,563	-2,586
41,000	7,128	4,230	-3509,319	18300,058	-12297,003	15716,428	-2,553	-2,608
41,492	7,128	4,230	4536,596	18371,120	-13718,847	15746,091	-3,623	0,411
41,984	7,128	4,230	5952,729	18442,519	-15095,294	15775,797	-3,644	0,433
42,476	7,128	4,230	7370,575	18513,811	-16425,370	15805,166	-3,673	0,476
42,968	7,128	4,230	8650,764	18581,543	-17705,109	15831,255	-3,687	0,479
43,460	7,128	4,230	9868,280	18647,406	-18934,908	15855,523	-3,698	0,475
43,952	7,128	4,230	11104,659	18713,779	-20116,368	15879,995	-3,720	0,502
44,444	7,128	4,230	12242,938	18777,389	-21245,271	15901,899	-3,734	0,507
44,936	7,128	4,230	13243,560	18836,841	-22318,913	15920,068	-3,733	0,474
45,428	7,128	4,230	14293,617	18898,080	-23343,425	15939,540	-3,749	0,486
45,920	7,128	4,230	15289,491	18957,973	-24314,501	15957,667	-3,764	0,497
46,412	7,128	4,230	16108,447	19012,293	-25225,790	15970,906	-3,759	0,453
46,904	7,128	4,230	16935,017	19067,387	-26084,738	15984,606	-3,764	0,437
47,396	7,128	4,230	17749,058	19122,751	-26890,229	15998,341	-3,775	0,440

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
47,888	7,128	4,230	18425,442	19173,899	-27635,319	16008,365	-3,773	0,406
48,380	7,128	4,230	19026,849	19223,114	-28322,460	16016,600	-3,768	0,364
48,872	7,128	4,230	19658,920	19274,494	-28957,172	16026,467	-3,776	0,360
49,364	7,128	4,230	20192,891	19323,251	-29531,857	16033,977	-3,778	0,338
49,856	7,128	4,230	20589,206	19367,849	-30043,478	16037,875	-3,766	0,281
50,348	7,128	4,230	21017,911	19414,995	-30501,882	16043,723	-3,769	0,263
50,840	7,128	4,230	21409,083	19462,064	-30902,616	16049,345	-3,775	0,255
51,332	7,128	4,230	21623,336	19503,542	-31236,418	16050,202	-3,762	0,195
51,824	7,128	4,230	21824,914	19546,031	-31513,321	16051,745	-3,756	0,155
52,316	7,128	4,230	22033,964	19590,432	-31734,426	16054,710	-3,761	0,145
52,808	7,128	4,230	22105,357	19630,942	-31889,945	16054,335	-3,753	0,101
53,300	7,128	4,230	22079,267	19669,225	-31982,160	16052,003	-3,739	0,041
53,797	7,128	4,230	22106,139	19702,904	-32006,236	16045,448	-3,743	0,034
54,294	7,128	4,230	22031,234	19734,310	-31965,048	16036,926	-3,741	0,010
54,791	7,128	4,230	21818,768	19762,041	-31856,073	16025,314	-3,727	-0,046
55,288	7,128	4,230	21618,229	19792,151	-31688,832	16015,529	-3,724	-0,070
55,785	7,128	4,230	21393,328	19823,170	-31460,634	16006,370	-3,727	-0,077
56,282	7,128	4,230	20995,085	19849,187	-31161,870	15993,071	-3,713	-0,132
56,779	7,128	4,230	20566,875	19875,939	-30801,443	15980,271	-3,704	-0,172
57,276	7,128	4,230	20162,208	19905,472	-30382,183	15969,609	-3,709	-0,175
57,773	7,128	4,230	19608,054	19931,043	-29893,505	15955,667	-3,700	-0,214
58,270	7,128	4,230	18964,048	19955,024	-29338,973	15940,366	-3,686	-0,265
58,767	7,128	4,230	18362,530	19982,367	-28725,621	15927,659	-3,690	-0,270
59,264	7,128	4,230	17658,511	20007,564	-28045,144	15913,149	-3,688	-0,290
59,761	7,128	4,230	16828,859	20029,841	-27296,483	15896,231	-3,675	-0,338
60,258	7,128	4,230	16001,491	20053,768	-26485,806	15880,540	-3,673	-0,356
60,755	7,128	4,230	15147,727	20078,159	-25611,170	15865,131	-3,678	-0,357
61,252	7,128	4,230	14132,548	20098,415	-24666,636	15846,373	-3,666	-0,401
61,748	7,128	4,230	13080,757	20118,745	-23657,588	15827,624	-3,659	-0,432
62,245	7,128	4,230	12059,512	20141,042	-22585,904	15810,325	-3,668	-0,420
62,742	7,128	4,230	10876,853	20159,264	-21444,648	15789,754	-3,660	-0,450
63,239	7,128	4,230	9616,270	20176,036	-20236,987	15767,987	-3,651	-0,487
63,736	7,128	4,230	8396,003	20194,430	-18965,913	15747,421	-3,658	-0,476
64,233	7,128	4,230	7063,946	20210,109	-17627,161	15724,678	-3,658	-0,485
64,730	7,128	4,230	5618,184	20223,154	-16221,194	15699,833	-3,649	-0,516
65,227	7,128	4,230	-3169,623	20236,283	-14750,427	15675,004	-2,481	-3,861
65,724	7,128	4,230	-4552,846	20248,362	-13213,977	15649,317	-2,503	-3,805

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
66,221	7,128	4,230	-5990,491	20256,849	-11610,516	15620,816	-2,526	-3,744
66,718	7,128	4,230	-7482,558	20263,918	-9941,886	15591,192	-2,551	-3,678
67,215	7,128	4,230	-9029,046	20157,531	-8163,002	15474,443	-2,554	-3,610
67,712	7,128	4,230	-10629,955	20185,567	-6382,389	15461,021	-2,585	-3,538
68,209	7,128	4,230	-12285,286	20211,393	-4533,339	15445,809	-2,617	-3,461
68,706	7,128	4,230	-14000,675	20234,675	-2616,178	15428,565	-2,649	-3,380
69,203	7,128	4,230	-15940,254	20254,997	-631,398	15408,988	-2,656	-3,371
69,700	7,128	4,230	-17939,866	20273,236	1420,379	15387,756	-2,664	-3,360
70,110	7,402	4,470	-19619,191	20201,532	3041,565	15292,592	-2,536	-3,283
70,520	7,675	4,711	-21359,273	20126,267	4480,930	15207,004	-2,383	-3,305
70,930	7,949	4,952	-23147,703	20055,712	5740,761	15125,182	-2,212	-3,411
71,340	8,223	5,192	-24988,227	19990,547	6823,983	15047,616	-2,027	-3,587
71,750	8,496	5,433	-26884,589	19930,841	7733,173	14974,337	-1,828	-3,827
72,160	8,770	5,674	-28812,214	19885,076	8474,228	14889,770	-1,620	-4,117
72,570	9,044	5,914	-30831,450	19833,941	9041,106	14823,408	-1,399	-4,462
72,980	9,317	6,155	-32917,758	19785,889	9438,661	14759,488	-1,169	-4,852
73,390	9,591	6,396	-35074,883	19739,554	9667,644	14696,985	-0,929	-5,283
73,800	9,865	6,636	-37306,568	19693,345	9728,512	14634,704	-0,682	-5,753
74,210	9,591	6,396	-35058,995	19551,936	9575,757	14536,900	-0,885	-5,335
74,620	9,317	6,155	-32896,361	19411,029	9259,838	14439,360	-1,076	-4,961
75,030	9,044	5,914	-30804,543	19271,868	8784,891	14343,016	-1,256	-4,631
75,440	8,770	5,674	-28779,797	19135,551	8154,810	14248,685	-1,424	-4,346
75,850	8,496	5,433	-26818,378	19002,915	7373,137	14156,994	-1,581	-4,111
76,260	8,223	5,192	-24944,990	18865,201	6439,834	14081,950	-1,720	-3,935
76,670	7,949	4,952	-23098,990	18740,842	5364,391	13996,133	-1,849	-3,812
77,080	7,675	4,711	-21305,083	18620,804	4145,752	13913,452	-1,962	-3,753
77,490	7,402	4,470	-19559,525	18504,414	2786,045	13833,408	-2,057	-3,767
77,900	7,128	4,230	-17874,915	18384,279	1286,925	13762,056	-2,129	-3,866
78,356	7,128	4,230	-16033,581	18354,455	-419,511	13746,358	-2,144	-3,808
78,811	7,128	4,230	-14242,691	18324,891	-2073,545	13731,901	-2,159	-3,748
79,267	7,128	4,230	-12610,555	18294,973	-3674,319	13717,188	-2,158	-3,736
79,722	7,128	4,230	-11073,883	18264,453	-5221,833	13701,960	-2,149	-3,743
80,178	7,128	4,230	-9582,940	18233,592	-6716,338	13686,484	-2,142	-3,748
80,633	7,128	4,230	-8137,726	18321,136	-8211,144	13759,874	-2,158	-3,749
81,089	7,128	4,230	-6738,241	18310,445	-9620,165	13759,547	-2,155	-3,752
81,544	7,128	4,230	-5384,485	18300,380	-10979,983	13759,651	-2,152	-3,754
82,000	7,128	4,230	-4076,458	18289,742	-12290,071	13759,342	-2,150	-3,753

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
82,492	7,128	4,230	4233,457	18360,002	-13710,544	13820,518	-3,268	-0,598
82,984	7,128	4,230	5678,681	18431,194	-15086,024	13882,459	-3,299	-0,548
83,476	7,128	4,230	7102,996	18501,897	-16414,799	13944,093	-3,334	-0,486
83,968	7,128	4,230	8389,655	18569,133	-17693,284	14003,174	-3,354	-0,465
84,460	7,128	4,230	9615,000	18634,626	-18921,931	14060,998	-3,372	-0,450
84,952	7,128	4,230	10857,817	18700,676	-20102,283	14119,302	-3,400	-0,404
85,444	7,128	4,230	12002,534	18764,040	-21230,168	14175,632	-3,421	-0,379
85,936	7,128	4,230	13009,595	18823,318	-22302,890	14228,928	-3,427	-0,393
86,428	7,128	4,230	14066,887	18884,475	-23326,621	14283,699	-3,450	-0,362
86,920	7,128	4,230	15069,180	18944,324	-24296,995	14337,531	-3,472	-0,331
87,412	7,128	4,230	15894,555	18998,656	-25207,696	14387,238	-3,474	-0,355
87,904	7,128	4,230	16727,907	19053,828	-26066,189	14437,628	-3,486	-0,351
88,396	7,128	4,230	17548,356	19109,307	-26871,324	14488,298	-3,504	-0,329
88,888	7,128	4,230	18231,149	19160,614	-27616,171	14535,851	-3,509	-0,343
89,380	7,128	4,230	18838,984	19210,029	-28303,182	14582,013	-3,511	-0,365
89,872	7,128	4,230	19477,464	19261,647	-28937,872	14629,888	-3,526	-0,348
90,364	7,128	4,230	20017,843	19310,677	-29512,640	14675,844	-3,535	-0,350
90,856	7,128	4,230	20420,566	19355,579	-30024,446	14718,699	-3,530	-0,386
91,348	7,128	4,230	20855,446	19403,050	-30483,115	14763,548	-3,541	-0,384
91,840	7,128	4,230	21253,033	19450,478	-30884,220	14808,406	-3,554	-0,371
92,332	7,128	4,230	21473,703	19492,340	-31218,477	14849,064	-3,548	-0,410
92,824	7,128	4,230	21681,283	19535,218	-31495,887	14890,531	-3,549	-0,429
93,316	7,128	4,230	21896,764	19580,044	-31717,598	14933,519	-3,562	-0,419
93,808	7,128	4,230	21974,588	19620,997	-31873,790	14973,592	-3,561	-0,442
94,300	7,128	4,230	21954,402	19659,718	-31966,702	15011,994	-3,555	-0,482
94,797	7,128	4,230	21987,793	19693,884	-31991,584	15047,037	-3,567	-0,466
95,294	7,128	4,230	21919,405	19725,790	-31951,246	15080,382	-3,572	-0,469
95,791	7,128	4,230	21713,458	19754,030	-31843,159	15110,948	-3,565	-0,503
96,288	7,128	4,230	21518,882	19784,635	-31676,799	15143,349	-3,570	-0,506
96,785	7,128	4,230	21300,527	19816,179	-31449,539	15176,493	-3,581	-0,491
97,282	7,128	4,230	20908,831	19842,727	-31151,727	15205,834	-3,575	-0,524
97,779	7,128	4,230	20486,613	19869,990	-30792,224	15235,746	-3,573	-0,543
98,276	7,128	4,230	20088,525	19900,059	-30373,921	15267,833	-3,586	-0,523
98,773	7,128	4,230	19540,950	19926,165	-29886,189	15296,904	-3,585	-0,541
99,270	7,128	4,230	18903,523	19950,679	-29332,584	15324,770	-3,579	-0,570
99,767	7,128	4,230	18308,109	19978,530	-28720,106	15355,222	-3,591	-0,552
100,264	7,128	4,230	17610,707	20004,248	-28040,497	15384,057	-3,596	-0,551

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
100,761	7,128	4,230	16787,671	20027,037	-27292,662	15410,658	-3,591	-0,576
101,258	7,128	4,230	15966,523	20051,449	-26482,744	15438,529	-3,597	-0,572
101,755	7,128	4,230	15119,416	20076,326	-25608,831	15466,774	-3,610	-0,550
102,252	7,128	4,230	14110,893	20097,048	-24664,959	15491,838	-3,606	-0,571
102,748	7,128	4,230	13065,468	20117,814	-23656,493	15516,975	-3,607	-0,579
103,245	7,128	4,230	12050,923	20140,531	-22585,332	15543,612	-3,624	-0,545
103,742	7,128	4,230	10874,963	20159,145	-21444,522	15567,099	-3,625	-0,553
104,239	7,128	4,230	9621,079	20176,275	-20237,227	15589,452	-3,623	-0,566
104,736	7,128	4,230	8407,387	20194,986	-18966,435	15613,043	-3,639	-0,532
105,233	7,128	4,230	7082,073	20210,944	-17627,889	15634,517	-3,646	-0,518
105,730	7,128	4,230	5643,054	20224,219	-16222,048	15653,927	-3,646	-0,526
106,227	7,128	4,230	4215,868	20237,579	-14751,372	15673,412	-3,658	-0,500
106,724	7,128	4,230	-4525,462	20250,051	-13215,079	15692,218	-2,515	-3,774
107,221	7,128	4,230	-5966,577	20258,803	-11611,636	15708,149	-2,544	-3,694
107,718	7,128	4,230	-7462,114	20266,000	-9942,907	15722,879	-2,575	-3,609
108,215	7,128	4,230	-9012,072	20157,712	-8163,075	15647,964	-2,585	-3,523
108,712	7,128	4,230	-10616,452	20185,620	-6382,406	15678,735	-2,622	-3,433
109,209	7,128	4,230	-12275,253	20211,367	-4533,334	15707,850	-2,660	-3,337
109,706	7,128	4,230	-14003,118	20234,589	-2616,167	15735,024	-2,698	-3,241
110,203	7,128	4,230	-15947,423	20254,966	-631,397	15760,000	-2,711	-3,214
110,700	7,128	4,230	-17951,761	20273,327	1420,385	15783,423	-2,725	-3,185
111,110	7,402	4,470	-19634,922	20201,748	3041,598	15721,869	-2,598	-3,105
111,520	7,675	4,711	-21378,924	20126,618	4481,008	15670,926	-2,447	-3,124
111,930	7,949	4,952	-23171,275	20056,200	5740,900	15623,597	-2,277	-3,226
112,340	8,223	5,192	-25015,719	19991,168	6824,195	15580,413	-2,092	-3,400
112,750	8,496	5,433	-26916,002	19931,589	7733,463	15541,431	-1,894	-3,637
113,160	8,770	5,674	-28847,628	19885,928	8474,591	15488,005	-1,687	-3,926
113,570	9,044	5,914	-30870,823	19834,894	9041,541	15455,632	-1,467	-4,269
113,980	9,317	6,155	-32961,090	19786,928	9439,157	15425,611	-1,237	-4,657
114,390	9,591	6,396	-35122,173	19740,663	9668,187	15396,882	-0,998	-5,087
114,800	9,865	6,636	-37357,817	19694,502	9729,084	15368,199	-0,751	-5,555
115,210	9,591	6,396	-35119,379	19553,213	9576,382	15255,493	-0,955	-5,137
115,620	9,317	6,155	-32956,241	19412,317	9260,453	15143,128	-1,147	-4,760
116,030	9,044	5,914	-30863,919	19273,144	8785,473	15032,142	-1,328	-4,426
116,440	8,770	5,674	-28838,669	19136,791	8155,339	14923,390	-1,498	-4,137
116,850	8,496	5,433	-26876,746	19004,092	7373,594	14817,521	-1,655	-3,898

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
117,260	8,223	5,192	-25002,626	18866,299	6440,209	14731,754	-1,797	-3,715
117,670	7,949	4,952	-23156,122	18741,806	5364,667	14632,175	-1,928	-3,587
118,080	7,675	4,711	-21361,712	18621,590	4145,927	14535,967	-2,043	-3,522
118,490	7,402	4,470	-19615,651	18504,973	2786,129	14442,597	-2,140	-3,528
118,900	7,128	4,230	-17930,408	18384,556	1286,944	14359,727	-2,215	-3,619
119,356	7,128	4,230	-16088,515	18354,365	-419,509	14332,535	-2,228	-3,566
119,811	7,128	4,230	-14297,067	18324,445	-2073,495	14306,636	-2,242	-3,511
120,267	7,128	4,230	-12669,240	18294,157	-3674,155	14280,489	-2,238	-3,506
120,722	7,128	4,230	-11131,927	18263,296	-5221,502	14253,868	-2,228	-3,518
121,178	7,128	4,230	-9640,342	18232,111	-6715,792	14227,035	-2,219	-3,527
121,633	7,128	4,230	-8194,487	18326,797	-8213,681	14298,379	-2,235	-3,532
122,089	7,128	4,230	-6794,361	18316,896	-9623,554	14288,144	-2,230	-3,540
122,544	7,128	4,230	-5439,963	18307,530	-10984,273	14278,294	-2,226	-3,546
123,000	7,128	4,230	-4131,295	18297,505	-12295,288	14267,964	-2,223	-3,550
123,492	7,128	4,230	4551,259	18368,363	-13716,788	14320,477	-3,398	-0,230
123,984	7,128	4,230	5989,347	18440,027	-15093,254	14373,595	-3,427	-0,187
124,476	7,128	4,230	7406,378	18511,112	-16422,975	14426,236	-3,459	-0,134
124,968	7,128	4,230	8685,753	18578,647	-17702,349	14476,089	-3,476	-0,120
125,460	7,128	4,230	9903,911	18644,366	-18931,820	14524,506	-3,492	-0,113
125,952	7,128	4,230	11139,442	18710,566	-20112,915	14573,274	-3,517	-0,075
126,444	7,128	4,230	12276,874	18774,014	-21241,453	14619,878	-3,535	-0,059
126,936	7,128	4,230	13276,649	18833,315	-22314,735	14663,231	-3,539	-0,081
127,428	7,128	4,230	14326,712	18894,441	-23338,931	14707,985	-3,558	-0,057
127,920	7,128	4,230	15321,717	18954,205	-24309,668	14751,658	-3,578	-0,035
128,412	7,128	4,230	16139,804	19008,405	-25220,631	14790,981	-3,577	-0,067
128,904	7,128	4,230	16965,895	19063,404	-26079,289	14830,908	-3,586	-0,071
129,396	7,128	4,230	17779,056	19118,669	-26884,488	14871,023	-3,601	-0,057
129,888	7,128	4,230	18454,561	19169,725	-27629,304	14907,846	-3,603	-0,079
130,380	7,128	4,230	19055,109	19218,859	-28316,192	14943,155	-3,602	-0,109
130,872	7,128	4,230	19686,300	19270,167	-28950,671	14980,138	-3,614	-0,101
131,364	7,128	4,230	20219,391	19318,860	-29525,146	15015,071	-3,620	-0,111
131,856	7,128	4,230	20614,826	19363,403	-30036,581	15046,763	-3,613	-0,155
132,348	7,128	4,230	21042,401	19410,493	-30494,808	15080,416	-3,620	-0,160
132,840	7,128	4,230	21432,700	19457,523	-30895,406	15114,006	-3,630	-0,156
133,332	7,128	4,230	21646,082	19498,970	-31229,096	15143,245	-3,622	-0,204
133,824	7,128	4,230	21846,345	19541,418	-31505,884	15173,245	-3,620	-0,231
134,316	7,128	4,230	22054,539	19585,805	-31726,932	15204,737	-3,629	-0,229

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
134,808	7,128	4,230	22125,077	19626,309	-31882,420	15233,198	-3,626	-0,260
135,300	7,128	4,230	22097,566	19664,571	-31974,592	15259,902	-3,617	-0,308
135,797	7,128	4,230	22123,598	19698,270	-31998,708	15283,024	-3,625	-0,301
136,294	7,128	4,230	22047,852	19729,704	-31957,586	15304,375	-3,628	-0,312
136,791	7,128	4,230	21834,546	19757,469	-31848,704	15322,871	-3,618	-0,355
137,288	7,128	4,230	21632,572	19787,597	-31681,542	15343,186	-3,620	-0,365
137,785	7,128	4,230	21406,860	19818,667	-31453,488	15364,220	-3,628	-0,359
138,282	7,128	4,230	21007,807	19844,743	-31154,893	15381,370	-3,618	-0,401
138,779	7,128	4,230	20578,193	19871,538	-30794,622	15399,069	-3,614	-0,428
139,276	7,128	4,230	20172,751	19901,146	-30375,580	15418,933	-3,623	-0,417
139,773	7,128	4,230	19617,821	19926,801	-29887,142	15435,726	-3,619	-0,443
140,270	7,128	4,230	18973,041	19950,873	-29332,869	15451,282	-3,610	-0,481
140,767	7,128	4,230	18370,238	19978,296	-28719,768	15469,423	-3,619	-0,471
141,264	7,128	4,230	17665,484	20003,601	-28039,590	15485,912	-3,621	-0,479
141,761	7,128	4,230	16835,097	20025,996	-27291,244	15500,141	-3,613	-0,513
142,258	7,128	4,230	16006,569	20050,034	-26480,875	15515,630	-3,616	-0,517
142,755	7,128	4,230	15152,113	20074,562	-25606,581	15531,487	-3,625	-0,505
143,252	7,128	4,230	14136,242	20094,962	-24662,399	15544,143	-3,619	-0,534
143,748	7,128	4,230	13083,447	20115,436	-23653,698	15556,868	-3,617	-0,551
144,245	7,128	4,230	12061,556	20137,897	-22582,378	15571,099	-3,630	-0,526
144,742	7,128	4,230	10878,250	20156,292	-21441,487	15582,178	-3,628	-0,542
145,239	7,128	4,230	9617,021	20173,245	-20234,188	15592,135	-3,623	-0,565
145,736	7,128	4,230	8395,975	20191,826	-18963,467	15603,340	-3,635	-0,540
146,233	7,128	4,230	7063,319	20207,706	-17625,064	15612,451	-3,640	-0,535
146,730	7,128	4,230	5616,957	20220,958	-16219,433	15619,524	-3,636	-0,552
147,227	7,128	4,230	4183,180	20234,371	-14749,033	15626,716	-3,645	-0,534
147,724	7,128	4,230	-4535,183	20247,024	-13213,104	15633,314	-2,503	-3,804
148,221	7,128	4,230	-5979,634	20256,008	-11610,034	15637,073	-2,531	-3,731
148,718	7,128	4,230	-7478,507	20263,491	-9941,676	15639,668	-2,559	-3,654
149,215	7,128	4,230	-9031,800	20156,153	-8162,443	15553,654	-2,566	-3,575
149,712	7,128	4,230	-10639,516	20184,361	-6382,008	15572,247	-2,601	-3,492
150,209	7,128	4,230	-12301,652	20210,445	-4533,127	15589,190	-2,637	-3,403
150,706	7,128	4,230	-14033,523	20234,039	-2616,096	15604,203	-2,672	-3,315
151,203	7,128	4,230	-15981,254	20254,830	-631,393	15617,042	-2,683	-3,295
151,700	7,128	4,230	-17989,018	20273,641	1420,407	15628,347	-2,694	-3,272
152,110	7,402	4,470	-19675,101	20202,395	3041,695	15557,915	-2,567	-3,193
152,520	7,675	4,711	-21421,929	20127,545	4481,214	15497,726	-2,416	-3,212

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
152,930	7,949	4,952	-23217,106	20057,355	5741,231	15441,143	-2,246	-3,315
153,340	8,223	5,192	-25064,376	19992,506	6824,652	15388,690	-2,061	-3,489
153,750	8,496	5,433	-26967,484	19933,070	7734,038	15340,417	-1,863	-3,726
154,160	8,770	5,674	-28902,100	19887,489	8475,257	15278,613	-1,656	-4,015
154,570	9,044	5,914	-30928,120	19836,526	9042,284	15236,960	-1,436	-4,359
154,980	9,317	6,155	-33021,212	19788,599	9439,954	15197,652	-1,206	-4,747
155,390	9,591	6,396	-35185,120	19742,344	9669,011	15159,639	-0,967	-5,177
155,800	9,865	6,636	-37423,591	19696,167	9729,907	15121,696	-0,720	-5,645
156,210	9,591	6,396	-35184,667	19554,856	9577,187	15015,712	-0,923	-5,228
156,620	9,317	6,155	-33020,303	19413,904	9261,210	14909,966	-1,115	-4,853
157,030	9,044	5,914	-30926,756	19274,647	8786,158	14805,486	-1,295	-4,520
157,440	8,770	5,674	-28900,281	19138,183	8155,932	14703,114	-1,465	-4,233
157,850	8,496	5,433	-26937,134	19005,346	7374,081	14603,495	-1,622	-3,995
158,260	8,223	5,192	-25061,701	18867,408	6440,588	14522,905	-1,763	-3,815
158,670	7,949	4,952	-23213,985	18742,725	5364,930	14429,341	-1,892	-3,688
159,080	7,675	4,711	-21418,362	18622,295	4146,084	14339,021	-2,007	-3,625
159,490	7,402	4,470	-19671,088	18505,443	2786,200	14251,424	-2,103	-3,635
159,900	7,128	4,230	-17984,610	18384,772	1286,959	14173,750	-2,177	-3,729
160,356	7,128	4,230	-16141,377	18354,300	-419,508	14151,861	-2,191	-3,672
160,811	7,128	4,230	-14348,589	18324,154	-2073,462	14131,284	-2,206	-3,614
161,267	7,128	4,230	-12719,813	18293,690	-3674,061	14110,488	-2,203	-3,606
161,722	7,128	4,230	-11181,148	18262,706	-5221,333	14089,245	-2,194	-3,615
162,178	7,128	4,230	-9688,211	18231,447	-6715,547	14067,813	-2,186	-3,621
162,633	7,128	4,230	-8241,004	18325,574	-8213,133	14143,107	-2,203	-3,623
163,089	7,128	4,230	-6839,526	18315,651	-9622,900	14138,140	-2,199	-3,628
163,544	7,128	4,230	-5483,777	18306,323	-10983,549	14133,596	-2,196	-3,631
164,000	7,128	4,230	-4173,758	18296,391	-12294,539	14128,612	-2,194	-3,632
164,492	7,128	4,230	4524,727	18367,408	-13716,075	14186,345	-3,373	-0,302
164,984	7,128	4,230	5964,850	18439,258	-15092,625	14244,743	-3,402	-0,257
165,476	7,128	4,230	7383,906	18510,575	-16422,499	14302,748	-3,436	-0,200
165,968	7,128	4,230	8665,305	18578,385	-17702,100	14358,063	-3,454	-0,183
166,460	7,128	4,230	9885,494	18644,416	-18931,872	14412,022	-3,471	-0,172
166,952	7,128	4,230	11123,050	18710,963	-20113,341	14466,399	-3,498	-0,131
167,444	7,128	4,230	12262,505	18774,788	-21242,328	14518,690	-3,517	-0,112
167,936	7,128	4,230	13264,304	18834,491	-22316,129	14567,809	-3,521	-0,131
168,428	7,128	4,230	14316,394	18896,044	-23340,911	14618,377	-3,542	-0,104
168,920	7,128	4,230	15313,423	18956,255	-24312,297	14667,922	-3,563	-0,078

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
169,412	7,128	4,230	16133,535	19010,919	-25223,966	14713,193	-3,563	-0,107
169,904	7,128	4,230	16961,649	19066,396	-26083,382	14759,106	-3,573	-0,108
170,396	7,128	4,230	17776,833	19122,151	-26889,385	14805,250	-3,590	-0,091
170,888	7,128	4,230	18454,362	19173,709	-27635,045	14848,159	-3,593	-0,109
171,380	7,128	4,230	19056,931	19223,350	-28322,809	14889,597	-3,593	-0,136
171,872	7,128	4,230	19690,146	19275,171	-28958,190	14932,737	-3,607	-0,125
172,364	7,128	4,230	20225,260	19324,382	-29533,586	14973,867	-3,614	-0,131
172,856	7,128	4,230	20622,718	19369,444	-30045,952	15011,795	-3,608	-0,173
173,348	7,128	4,230	21052,312	19417,052	-30505,113	15051,709	-3,616	-0,175
173,840	7,128	4,230	21444,636	19464,599	-30906,642	15091,589	-3,628	-0,167
174,332	7,128	4,230	21660,040	19506,560	-31241,253	15127,148	-3,620	-0,211
174,824	7,128	4,230	21862,321	19549,517	-31518,942	15163,490	-3,620	-0,235
175,316	7,128	4,230	22072,539	19594,405	-31740,863	15201,341	-3,631	-0,230
175,808	7,128	4,230	22145,100	19635,402	-31897,192	15236,186	-3,629	-0,258
176,300	7,128	4,230	22119,607	19674,147	-31990,163	15269,292	-3,620	-0,302
176,797	7,128	4,230	22147,683	19708,321	-32015,035	15298,891	-3,630	-0,292
177,294	7,128	4,230	22073,980	19740,216	-31974,613	15326,729	-3,634	-0,299
177,791	7,128	4,230	21862,718	19768,425	-31866,364	15351,710	-3,626	-0,338
178,288	7,128	4,230	21662,782	19798,979	-31699,765	15378,520	-3,629	-0,345
178,785	7,128	4,230	21439,115	19830,454	-31472,194	15406,052	-3,638	-0,336
179,282	7,128	4,230	21042,105	19856,911	-31173,996	15429,693	-3,630	-0,373
179,779	7,128	4,230	20614,531	19884,062	-30814,031	15453,878	-3,627	-0,397
180,276	7,128	4,230	20211,132	19913,998	-30395,196	15480,234	-3,638	-0,382
180,773	7,128	4,230	19658,247	19939,947	-29906,860	15503,497	-3,635	-0,405
181,270	7,128	4,230	19015,510	19964,281	-29352,582	15525,510	-3,628	-0,438
181,767	7,128	4,230	18414,749	19991,925	-28739,361	15550,102	-3,637	-0,425
182,264	7,128	4,230	17712,039	20017,410	-28058,946	15573,021	-3,641	-0,429
182,761	7,128	4,230	16883,696	20039,937	-27310,243	15593,643	-3,635	-0,459
183,258	7,128	4,230	16057,212	20064,058	-26499,396	15615,511	-3,639	-0,459
183,755	7,128	4,230	15204,800	20088,612	-25624,503	15637,720	-3,650	-0,442
184,252	7,128	4,230	14190,973	20108,978	-24679,600	15656,673	-3,645	-0,468
184,748	7,128	4,230	13140,226	20129,352	-23670,061	15675,659	-3,644	-0,481
185,245	7,128	4,230	12120,380	20151,641	-22597,790	15696,118	-3,659	-0,451
185,742	7,128	4,230	10939,119	20169,787	-21455,842	15713,354	-3,658	-0,463
186,239	7,128	4,230	9679,934	20186,408	-20247,390	15729,405	-3,655	-0,482
186,736	7,128	4,230	8460,939	20204,566	-18975,433	15746,658	-3,668	-0,452
187,233	7,128	4,230	7130,328	20219,928	-17635,725	15761,734	-3,674	-0,443

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
187,730	7,128	4,230	5686,011	20232,560	-16228,739	15774,683	-3,672	-0,456
188,227	7,128	4,230	4254,604	20245,252	-14756,964	15787,679	-3,682	-0,434
188,724	7,128	4,230	-4448,265	20257,084	-13219,669	15800,008	-2,544	-3,692
189,221	7,128	4,230	-5891,241	20265,122	-11615,257	15809,375	-2,573	-3,616
189,718	7,128	4,230	-7388,639	20271,528	-9945,620	15817,471	-2,602	-3,535
190,215	7,128	4,230	-8940,458	20162,475	-8165,004	15735,458	-2,610	-3,452
190,712	7,128	4,230	-10546,699	20189,410	-6383,604	15759,559	-2,646	-3,366
191,209	7,128	4,230	-12207,361	20214,103	-4533,947	15781,915	-2,683	-3,273
191,706	7,128	4,230	-13938,157	20236,189	-2616,373	15802,239	-2,719	-3,182
192,203	7,128	4,230	-15884,426	20255,358	-631,410	15820,291	-2,731	-3,158
192,700	7,128	4,230	-17890,728	20272,436	1420,323	15836,712	-2,743	-3,133
193,110	7,402	4,470	-19575,064	20199,933	3041,324	15769,168	-2,614	-3,059
193,520	7,675	4,711	-21320,679	20124,046	4480,435	15712,510	-2,461	-3,083
193,930	7,949	4,952	-23114,643	20053,023	5739,991	15659,631	-2,289	-3,190
194,340	8,223	5,192	-24960,701	19987,520	6822,950	15611,045	-2,103	-3,368
194,750	8,496	5,433	-26862,597	19927,588	7731,911	15566,792	-1,903	-3,609
195,160	8,770	5,674	-28794,996	19881,744	8472,808	15508,249	-1,695	-3,901
195,570	9,044	5,914	-30819,791	19830,559	9039,565	15470,855	-1,474	-4,247
195,980	9,317	6,155	-32911,658	19782,525	9437,057	15435,905	-1,243	-4,639
196,390	9,591	6,396	-35074,342	19736,268	9666,035	15402,331	-1,003	-5,071
196,800	9,865	6,636	-37312,328	19690,192	9726,955	15368,884	-0,755	-5,541
197,210	9,591	6,396	-35078,862	19549,015	9574,326	15251,144	-0,958	-5,126
197,620	9,317	6,155	-32919,957	19408,297	9258,535	15133,871	-1,149	-4,751
198,030	9,044	5,914	-30831,869	19269,373	8783,753	15018,105	-1,330	-4,420
198,440	8,770	5,674	-28810,853	19133,335	8153,866	14904,693	-1,498	-4,134
198,850	8,496	5,433	-26853,163	19001,012	7372,399	14794,279	-1,655	-3,898
199,260	8,223	5,192	-24983,936	18863,613	6439,292	14703,851	-1,796	-3,719
199,670	7,949	4,952	-23141,627	18739,613	5364,039	14599,925	-1,925	-3,593
200,080	7,675	4,711	-21351,412	18619,936	4145,559	14499,464	-2,039	-3,532
200,490	7,402	4,470	-19609,546	18503,893	2785,967	14401,922	-2,135	-3,543
200,900	7,128	4,230	-17928,787	18384,070	1286,910	14314,803	-2,208	-3,639
201,356	7,128	4,230	-16091,530	18354,506	-419,512	14282,826	-2,220	-3,590
201,811	7,128	4,230	-14304,718	18325,055	-2073,564	14252,031	-2,232	-3,539
202,267	7,128	4,230	-12682,521	18295,075	-3674,339	14220,888	-2,226	-3,539
202,722	7,128	4,230	-11149,749	18264,379	-5221,812	14189,175	-2,215	-3,556
203,178	7,128	4,230	-9662,706	18233,219	-6716,200	14157,160	-2,204	-3,570
203,633	7,128	4,230	-8221,392	18327,914	-8214,182	14222,804	-2,219	-3,579

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
204,089	7,128	4,230	-6825,807	18317,803	-9624,031	14207,109	-2,212	-3,591
204,544	7,128	4,230	-5475,951	18308,112	-10984,622	14191,717	-2,207	-3,602
205,000	7,128	4,230	-4171,825	18297,655	-12295,388	14175,767	-2,202	-3,610
205,492	7,128	4,230	4546,386	18367,929	-13716,464	14221,691	-3,382	-0,277
205,984	7,128	4,230	5976,178	18438,784	-15092,237	14267,996	-3,408	-0,241
206,476	7,128	4,230	7384,903	18508,945	-16421,053	14313,698	-3,438	-0,194
206,968	7,128	4,230	8655,970	18575,455	-17699,308	14356,510	-3,453	-0,187
207,460	7,128	4,230	9865,815	18640,057	-18927,445	14397,783	-3,465	-0,185
207,952	7,128	4,230	11093,036	18705,060	-20106,996	14439,305	-3,489	-0,154
208,444	7,128	4,230	12222,157	18767,241	-21233,789	14478,586	-3,504	-0,144
208,936	7,128	4,230	13213,622	18825,213	-22305,135	14514,563	-3,505	-0,172
209,428	7,128	4,230	14255,352	18884,958	-23327,217	14551,849	-3,523	-0,154
209,920	7,128	4,230	15242,044	18943,297	-24295,678	14587,994	-3,540	-0,138
210,412	7,128	4,230	16051,817	18996,035	-25204,219	14619,773	-3,536	-0,175
210,904	7,128	4,230	16869,562	19049,542	-26060,326	14652,091	-3,543	-0,186
211,396	7,128	4,230	17674,406	19103,293	-26862,867	14684,545	-3,556	-0,177
211,888	7,128	4,230	18341,594	19152,819	-27604,937	14713,702	-3,556	-0,205
212,380	7,128	4,230	18933,786	19200,410	-28289,009	14741,322	-3,552	-0,241
212,872	7,128	4,230	19556,657	19250,170	-28920,629	14770,562	-3,562	-0,239
213,364	7,128	4,230	20081,428	19297,315	-29492,219	14797,747	-3,566	-0,254
213,856	7,128	4,230	20468,543	19340,314	-30000,766	14821,710	-3,556	-0,305
214,348	7,128	4,230	20887,752	19385,868	-30456,121	14847,586	-3,561	-0,316
214,840	7,128	4,230	21269,729	19431,377	-30853,890	14873,382	-3,569	-0,318
215,332	7,128	4,230	21474,789	19471,322	-31184,815	14894,879	-3,558	-0,371
215,824	7,128	4,230	21666,682	19512,289	-31458,920	14917,117	-3,554	-0,404
216,316	7,128	4,230	21866,552	19555,223	-31677,392	14940,817	-3,561	-0,408
216,808	7,128	4,230	21928,766	19594,307	-31830,434	14961,536	-3,555	-0,445
217,300	7,128	4,230	21892,887	19631,185	-31920,307	14980,530	-3,543	-0,499
217,797	7,128	4,230	21910,509	19663,531	-31942,277	14995,940	-3,550	-0,498
218,294	7,128	4,230	21826,353	19693,662	-31899,206	15009,629	-3,550	-0,515
218,791	7,128	4,230	21604,637	19720,178	-31788,591	15020,533	-3,537	-0,564
219,288	7,128	4,230	21394,217	19749,117	-31619,931	15033,254	-3,537	-0,582
219,785	7,128	4,230	21160,094	19779,066	-31390,639	15046,714	-3,542	-0,582
220,282	7,128	4,230	20752,630	19804,097	-31091,080	15056,404	-3,530	-0,630
220,779	7,128	4,230	20314,583	19829,928	-30730,140	15066,675	-3,523	-0,664
221,276	7,128	4,230	19900,730	19858,664	-30310,739	15079,125	-3,530	-0,660
221,773	7,128	4,230	19337,389	19883,547	-29822,268	15088,622	-3,523	-0,693

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
222,270	7,128	4,230	18684,197	19906,958	-29268,304	15096,977	-3,512	-0,738
222,767	7,128	4,230	18072,982	19933,840	-28655,862	15107,938	-3,518	-0,736
223,264	7,128	4,230	17359,816	19958,737	-27976,703	15117,366	-3,517	-0,751
223,761	7,128	4,230	16521,018	19980,867	-27229,743	15124,675	-3,507	-0,792
224,258	7,128	4,230	15684,106	20004,800	-26421,133	15133,324	-3,507	-0,805
224,755	7,128	4,230	14821,239	20029,393	-25548,965	15142,446	-3,513	-0,800
225,252	7,128	4,230	13796,958	20050,045	-24607,272	15148,566	-3,504	-0,837
225,748	7,128	4,230	12735,815	20070,975	-23601,415	15154,894	-3,499	-0,863
226,245	7,128	4,230	11705,515	20094,109	-22533,274	15162,842	-3,510	-0,845
226,742	7,128	4,230	10513,801	20113,413	-21395,874	15167,879	-3,505	-0,870
227,239	7,128	4,230	9244,163	20131,530	-20192,347	15171,999	-3,497	-0,901
227,736	7,128	4,230	8014,815	20151,550	-18925,641	15177,534	-3,507	-0,884
228,233	7,128	4,230	6673,754	20169,157	-17591,442	15181,231	-3,509	-0,888
228,730	7,128	4,230	5218,986	20184,446	-16190,146	15183,165	-3,503	-0,914
229,227	7,128	4,230	-3163,159	20200,268	-14724,175	15185,482	-2,403	-4,064
229,724	7,128	4,230	-4554,108	20215,655	-13192,633	15187,455	-2,428	-4,001
230,221	7,128	4,230	-5999,478	20227,728	-11593,825	15186,923	-2,454	-3,934
230,718	7,128	4,230	-7499,269	20238,670	-9929,499	15185,527	-2,482	-3,861
231,215	7,128	4,230	-9053,482	20141,481	-8156,502	15103,037	-2,490	-3,785
231,712	7,128	4,230	-10662,117	20172,621	-6378,296	15116,804	-2,524	-3,706
232,209	7,128	4,230	-12325,173	20201,923	-4531,215	15129,161	-2,559	-3,621
232,706	7,128	4,230	-14063,298	20228,999	-2615,444	15139,821	-2,593	-3,539
233,203	7,128	4,230	-16012,051	20253,590	-631,355	15148,596	-2,603	-3,522
233,700	7,128	4,230	-18020,838	20276,479	1420,606	15156,072	-2,615	-3,502
234,110	7,402	4,470	-19709,279	20208,199	3042,569	15085,433	-2,492	-3,412
234,520	7,675	4,711	-21456,973	20135,801	4483,052	15023,573	-2,344	-3,421
234,930	7,949	4,952	-23253,015	20067,591	5744,161	14964,891	-2,178	-3,514
235,340	8,223	5,192	-25101,151	20004,302	6828,678	14909,932	-1,996	-3,680
235,750	8,496	5,433	-27005,126	19946,051	7739,075	14858,773	-1,801	-3,910
236,160	8,770	5,674	-28943,436	19901,109	8481,061	14795,529	-1,596	-4,193
236,570	9,044	5,914	-30970,361	19850,687	9048,740	14750,372	-1,378	-4,530
236,980	9,317	6,155	-33064,357	19803,031	9446,839	14707,305	-1,150	-4,914
237,390	9,591	6,396	-35229,170	19756,797	9676,089	14665,329	-0,913	-5,339
237,800	9,865	6,636	-37478,925	19710,503	9736,989	14623,347	-0,666	-5,805
238,210	9,591	6,396	-35237,710	19568,888	9584,059	14546,043	-0,870	-5,385
238,620	9,317	6,155	-33071,057	19427,387	9267,642	14468,421	-1,063	-5,006
239,030	9,044	5,914	-30975,219	19287,348	8791,947	14391,490	-1,245	-4,670

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
239,440	8,770	5,674	-28946,453	19149,875	8160,915	14316,077	-1,415	-4,380
239,850	8,496	5,433	-26981,015	19015,815	7378,143	14242,832	-1,573	-4,138
240,260	8,223	5,192	-25101,151	18876,593	6443,723	14186,822	-1,715	-3,954
240,670	7,949	4,952	-23251,284	18750,272	5367,091	14118,602	-1,846	-3,823
241,080	7,675	4,711	-21453,512	18628,033	4147,362	14053,098	-1,962	-3,757
241,490	7,402	4,470	-19704,088	18509,223	2786,769	13989,838	-2,059	-3,762
241,900	7,128	4,230	-18014,552	18386,492	1287,080	13935,570	-2,135	-3,851
242,356	7,128	4,230	-16169,020	18353,794	-419,496	13938,890	-2,153	-3,781
242,811	7,128	4,230	-14373,932	18321,924	-2073,209	13943,810	-2,172	-3,710
243,267	7,128	4,230	-12751,523	18290,174	-3673,355	13948,754	-2,171	-3,693
243,722	7,128	4,230	-11209,325	18258,416	-5220,107	13953,554	-2,167	-3,689
244,178	7,128	4,230	-9712,856	18226,838	-6713,850	13958,422	-2,164	-3,681
244,633	7,128	4,230	-8262,117	18319,900	-8210,590	14058,805	-2,186	-3,669
245,089	7,128	4,230	-6857,106	18310,781	-9620,342	14080,938	-2,187	-3,660
245,544	7,128	4,230	-5497,824	18302,772	-10981,419	14103,864	-2,189	-3,649
246,000	7,128	4,230	-4184,272	18294,642	-12293,364	14126,699	-2,192	-3,637
246,492	7,128	4,230	4545,815	18368,073	-13716,571	14214,939	-3,381	-0,280
246,984	7,128	4,230	5995,895	18442,398	-15095,195	14304,121	-3,417	-0,217
247,476	7,128	4,230	7424,912	18516,550	-16427,800	14393,423	-3,457	-0,143
247,968	7,128	4,230	8716,271	18587,520	-17710,804	14480,497	-3,482	-0,110
248,460	7,128	4,230	9946,230	18656,995	-18944,644	14566,647	-3,505	-0,082
248,952	7,128	4,230	11193,699	18727,245	-20130,843	14653,637	-3,538	-0,024
249,444	7,128	4,230	12343,068	18794,997	-21265,193	14738,909	-3,564	0,012
249,936	7,128	4,230	13354,780	18858,822	-22344,957	14821,325	-3,575	0,009
250,428	7,128	4,230	14416,418	18924,652	-23376,248	14905,535	-3,602	0,052
250,920	7,128	4,230	15423,316	18989,290	-24354,667	14989,031	-3,629	0,094
251,412	7,128	4,230	16253,295	19048,500	-25273,830	15068,450	-3,636	0,082
251,904	7,128	4,230	17090,804	19108,601	-26141,120	15148,777	-3,653	0,096
252,396	7,128	4,230	17915,814	19169,070	-26955,362	15229,601	-3,676	0,129
252,888	7,128	4,230	18603,167	19225,396	-27709,542	15307,331	-3,685	0,126
253,380	7,128	4,230	19215,009	19279,823	-28406,013	15383,735	-3,692	0,115
253,872	7,128	4,230	19858,009	19336,469	-29050,281	15462,100	-3,712	0,142
254,364	7,128	4,230	20402,910	19390,509	-29634,647	15538,568	-3,725	0,151
254,856	7,128	4,230	20810,154	19440,387	-30156,000	15611,876	-3,726	0,126
255,348	7,128	4,230	21248,902	19492,762	-30624,056	15687,362	-3,741	0,140
255,840	7,128	4,230	21650,976	19545,057	-31034,397	15762,963	-3,759	0,163
256,332	7,128	4,230	21876,132	19591,712	-31377,630	15834,182	-3,758	0,135

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
256,824	7,128	4,230	22087,538	19639,268	-31663,644	15906,287	-3,764	0,127
257,316	7,128	4,230	22307,477	19688,695	-31893,602	15980,072	-3,781	0,149
257,808	7,128	4,230	22389,760	19734,132	-32057,576	16050,779	-3,786	0,138
258,300	7,128	4,230	22373,942	19777,201	-32157,729	16119,708	-3,784	0,110
258,797	7,128	4,230	22411,293	19815,585	-32189,279	16185,299	-3,801	0,138
259,294	7,128	4,230	22347,387	19851,560	-32154,966	16249,050	-3,811	0,148
259,791	7,128	4,230	22145,920	19883,682	-32052,156	16309,761	-3,810	0,126
260,288	7,128	4,230	21955,320	19917,941	-31890,232	16372,338	-3,820	0,137
260,785	7,128	4,230	21741,431	19952,929	-31666,570	16435,632	-3,837	0,165
261,282	7,128	4,230	21354,201	19982,668	-31371,426	16494,711	-3,836	0,146
261,779	7,128	4,230	20936,146	20012,833	-31013,586	16554,244	-3,840	0,142
262,276	7,128	4,230	20542,519	20045,511	-30595,928	16615,961	-3,858	0,176
262,773	7,128	4,230	19999,404	20073,892	-30107,757	16674,220	-3,862	0,174
263,270	7,128	4,230	19366,438	20100,315	-29552,587	16730,943	-3,863	0,160
263,767	7,128	4,230	18775,470	20129,675	-28937,383	16790,205	-3,880	0,194
264,264	7,128	4,230	18082,531	20156,464	-28253,862	16847,419	-3,892	0,212
264,761	7,128	4,230	17263,959	20179,847	-27500,910	16901,869	-3,893	0,204
265,258	7,128	4,230	16447,649	20204,347	-26684,682	16957,334	-3,905	0,226
265,755	7,128	4,230	15605,019	20228,733	-25803,238	17012,788	-3,924	0,265
266,252	7,128	4,230	14600,974	20248,350	-24850,651	17064,301	-3,927	0,262
266,748	7,128	4,230	13560,888	20267,374	-23832,360	17115,402	-3,934	0,273
267,245	7,128	4,230	12550,845	20287,602	-22750,255	17167,567	-3,957	0,327
267,742	7,128	4,230	11379,388	20302,951	-21597,498	17215,660	-3,963	0,338
268,239	7,128	4,230	10130,007	20315,983	-20377,357	17261,835	-3,968	0,344
268,736	7,128	4,230	8922,312	20329,743	-19092,995	17308,671	-3,990	0,398
269,233	7,128	4,230	7601,538	20339,757	-17740,240	17352,359	-4,003	0,431
269,730	7,128	4,230	6167,059	20346,077	-16319,792	17392,918	-4,008	0,442
270,227	7,128	4,230	4771,271	20351,969	-14834,752	17433,133	-4,030	0,501
270,724	7,128	4,230	-3283,883	20355,355	-13283,800	17471,211	-3,000	-2,444
271,221	7,128	4,230	-4703,260	20353,812	-11666,092	17505,062	-3,036	-2,338
271,718	7,128	4,230	-6177,059	20349,503	-9983,876	17536,521	-3,074	-2,229
272,215	7,128	4,230	-7705,279	20342,477	-8237,898	17565,616	-3,112	-2,115
272,712	7,128	4,230	-9287,920	20330,135	-6428,099	17590,084	-3,151	-1,999
273,209	7,128	4,230	-10924,983	20253,792	-4542,849	17559,021	-3,175	-1,889
273,706	7,128	4,230	-12705,929	20259,269	-2619,357	17598,767	-3,205	-1,807
274,203	7,128	4,230	-14629,944	20261,031	-631,586	17635,296	-3,221	-1,762
274,700	7,128	4,230	-16613,993	20259,458	1419,413	17668,921	-3,237	-1,716

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
275,110	7,402	4,470	-18274,335	20173,404	3037,330	17604,441	-3,082	-1,706
275,520	7,675	4,711	-20001,511	20086,312	4472,034	17557,056	-2,907	-1,788
275,930	7,949	4,952	-21777,035	20006,260	5726,605	17515,587	-2,716	-1,947
276,340	8,223	5,192	-23604,652	19933,651	6804,561	17480,413	-2,513	-2,172
276,750	8,496	5,433	-25488,108	19868,320	7708,915	17451,426	-2,298	-2,455
277,160	8,770	5,674	-27391,561	19819,578	8446,316	17402,948	-2,077	-2,783
277,570	9,044	5,914	-29397,776	19765,942	9010,110	17383,882	-1,843	-3,164
277,980	9,317	6,155	-31519,271	19717,151	9405,871	17368,930	-1,597	-3,601
278,390	9,591	6,396	-33715,113	19671,296	9634,214	17356,431	-1,342	-4,076
278,800	9,865	6,636	-35985,517	19626,638	9695,559	17344,861	-1,081	-4,586
279,210	9,591	6,396	-33749,669	19487,883	9544,386	17006,996	-1,273	-4,200
279,620	9,317	6,155	-31588,382	19350,669	9231,044	16673,525	-1,454	-3,855
280,030	9,044	5,914	-29497,912	19216,234	8759,530	16345,447	-1,624	-3,555
280,440	8,770	5,674	-27474,513	19085,565	8133,509	16023,500	-1,782	-3,302
280,850	8,496	5,433	-25514,441	18959,375	7356,244	15708,151	-1,928	-3,100
281,260	8,223	5,192	-23651,127	18828,188	6427,199	15421,734	-2,056	-2,958
281,670	7,949	4,952	-21805,974	18711,525	5355,999	15119,102	-2,173	-2,872
282,080	7,675	4,711	-20012,915	18599,461	4141,000	14822,717	-2,273	-2,852
282,490	7,402	4,470	-18268,204	18491,067	2784,036	14531,697	-2,355	-2,909
282,900	7,128	4,230	-16598,394	18378,604	1286,527	14255,964	-2,410	-3,059
283,356	7,128	4,230	-14903,690	18355,872	-419,544	14011,336	-2,366	-3,173
283,811	7,128	4,230	-13254,714	18329,761	-2074,096	13765,797	-2,322	-3,283
284,267	7,128	4,230	-11651,469	18300,491	-3675,427	13518,593	-2,279	-3,391
284,722	7,128	4,230	-10093,952	18268,298	-5222,932	13269,945	-2,237	-3,495
285,178	7,128	4,230	-8582,164	18339,547	-6755,366	13095,984	-2,216	-3,594
285,633	7,128	4,230	-7116,106	18324,748	-8212,763	12859,840	-2,177	-3,695
286,089	7,128	4,230	-5695,776	18306,367	-9618,023	12621,616	-2,139	-3,794
286,544	7,128	4,230	-4321,176	18286,187	-10971,467	12382,587	-2,102	-3,891
287,000	7,128	4,230	4503,206	18263,328	-12272,322	12142,298	-3,259	-0,571
287,492	7,128	4,230	5871,857	20553,687	-15348,703	13391,763	-3,507	-1,101
287,984	7,128	4,230	7265,833	20614,221	-16872,843	13157,119	-3,458	-1,275
288,476	7,128	4,230	8629,855	20670,961	-18339,183	12918,485	-3,411	-1,439
288,968	7,128	4,230	9856,221	20721,517	-19744,147	12674,548	-3,351	-1,638
289,460	7,128	4,230	11028,254	20768,184	-21088,383	12426,929	-3,291	-1,836
289,952	7,128	4,230	12210,414	20813,224	-22373,165	12177,109	-3,241	-2,003
290,444	7,128	4,230	13294,474	20853,919	-23594,717	11923,596	-3,184	-2,186
290,936	7,128	4,230	14241,365	20889,196	-24750,655	11665,964	-3,115	-2,404

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
291,428	7,128	4,230	15241,377	20925,388	-25847,612	11407,884	-3,063	-2,571
291,920	7,128	4,230	16182,550	20959,352	-26881,364	11147,645	-3,012	-2,736
292,412	7,128	4,230	16946,805	20987,248	-27846,190	10883,346	-2,942	-2,952
292,904	7,128	4,230	17719,172	21015,666	-28750,041	10618,558	-2,883	-3,136
293,396	7,128	4,230	18477,928	21044,252	-29592,225	10353,087	-2,831	-3,299
293,888	7,128	4,230	19099,028	21068,745	-30366,359	10084,887	-2,767	-3,494
294,380	7,128	4,230	19640,475	21091,432	-31075,155	9815,183	-2,701	-3,696
294,872	7,128	4,230	20216,564	21116,899	-31725,123	9546,123	-2,650	-3,856
295,364	7,128	4,230	20694,553	21140,367	-32308,967	9275,497	-2,593	-4,031
295,856	7,128	4,230	21034,886	21160,445	-32824,159	9002,795	-2,525	-4,237
296,348	7,128	4,230	21395,817	21183,515	-33280,311	8730,783	-2,469	-4,408
296,840	7,128	4,230	21730,182	21207,982	-33674,853	8458,702	-2,420	-4,563
297,332	7,128	4,230	21887,629	21228,035	-33998,326	8184,259	-2,352	-4,766
297,824	7,128	4,230	22012,925	21249,619	-34259,951	7909,841	-2,290	-4,956
298,316	7,128	4,230	22164,203	21275,289	-34463,717	7636,305	-2,242	-5,108
298,808	7,128	4,230	22177,825	21298,629	-34599,060	7361,271	-2,182	-5,292
299,300	7,128	4,230	22093,347	21321,408	-34668,610	7085,419	-2,116	-5,491
299,782	7,128	4,230	22034,612	21261,810	-34518,534	6788,235	-2,075	-5,576
300,265	7,128	4,230	21912,531	21207,418	-34271,128	6494,217	-2,041	-5,646
300,747	7,128	4,230	21652,862	21155,299	-33922,392	6202,307	-2,001	-5,731
301,229	7,128	4,230	21354,934	21109,483	-33479,413	5913,544	-1,972	-5,790
301,712	7,128	4,230	21091,149	21072,787	-32946,952	5628,434	-1,964	-5,792
302,194	7,128	4,230	20666,622	21037,434	-32312,984	5344,628	-1,947	-5,821
302,676	7,128	4,230	20173,966	21007,031	-31583,376	5062,969	-1,936	-5,837
303,159	7,128	4,230	19687,713	20984,265	-30762,031	4783,867	-1,942	-5,808
303,641	7,128	4,230	19132,927	20966,038	-29843,999	4506,334	-1,953	-5,767
304,124	7,128	4,230	18463,706	20950,470	-28826,428	4229,850	-1,962	-5,732
304,606	7,128	4,230	17737,931	20939,437	-27711,637	3954,651	-1,979	-5,678
305,088	7,128	4,230	17050,300	20935,752	-26502,610	3681,025	-2,017	-5,565
305,571	7,128	4,230	16204,403	20932,236	-25189,548	3407,569	-2,048	-5,476
306,053	7,128	4,230	15301,954	20931,892	-23775,857	3134,699	-2,086	-5,368
306,535	7,128	4,230	14382,795	20935,238	-22261,452	2862,364	-2,138	-5,221
307,018	7,128	4,230	13394,865	20939,881	-20643,086	2590,088	-2,195	-5,059
307,500	7,128	4,230	12315,653	20944,429	-18919,197	2317,733	-2,255	-4,890
307,910	7,737	4,529	11355,596	21017,562	-17428,355	2090,684	-2,124	-4,410
308,320	8,346	4,828	10395,375	21069,282	-15834,375	1862,751	-2,025	-3,951
308,730	8,955	5,128	9329,158	21107,960	-14147,297	1632,678	-1,938	-3,554

x [m]	A_c [m^2]	I_c [m^4]	$M_{freq,\infty}$ [kN.m]	P_∞ [kN]	P_∞ x e [kN.m]	$M_{PE,Hip,\infty}$ [kN.m]	σ_{sup} [MPa]	σ_{inf} [MPa]
309,140	9,564	5,427	8206,619	21135,870	-12371,215	1401,050	-1,867	-3,191
309,550	10,173	5,726	7022,605	21153,936	-10509,027	1168,275	-1,806	-2,859
309,960	10,782	6,025	5798,467	21171,763	-8567,039	933,268	-1,758	-2,550
310,370	11,391	6,325	4469,412	21171,779	-6539,696	699,586	-1,712	-2,276
310,780	12,001	6,624	3063,418	21164,407	-4434,298	465,756	-1,672	-2,027
311,190	12,610	6,923	1575,332	21150,341	-2253,202	232,029	-1,634	-1,801
311,600	13,219	7,222	0,000	21130,270	1,372	-1,372	-1,599	-1,599

Anexo G – Estado limite de deformação

x [m]	δ_{PP} [mm]	δ_{PE} [mm]	δ_{RCP} [mm]	$\delta_{SC,min}$ [mm]	$\delta_{SC,max}$ [mm]	$\delta_{VDT,min}$ [mm]	$\delta_{VDT,max}$ [mm]	δ_{max} [mm]
12,300	-9,098	15,531	-2,061	-7,517	3,232	-0,992	1,984	11,792
53,300	-10,832	11,253	-2,569	-11,836	6,109	-1,076	0,538	-12,474
94,300	-10,618	12,9642	-2,487	-12,529	6,882	-0,133	0,067	-5,538
135,300	-10,671	12,5364	-2,508	-12,722	7,046	-0,369	0,184	-7,418
176,300	-10,671	12,5364	-2,508	-12,722	7,046	-0,369	0,184	-7,418
217,300	-10,618	12,9642	-2,487	-12,529	6,882	-0,133	0,067	-5,538
258,300	-10,832	11,253	-2,569	-11,836	6,109	-1,076	0,538	-12,474
299,300	-9,098	15,531	-2,061	-7,517	3,232	-0,992	1,984	11,792

Vão	$L_{vão}$ [m]	δ_{adm} [mm]
1	32,800	82,000
2	41,000	102,500
3	41,000	102,500
4	41,000	102,500
5	41,000	102,500
6	41,000	102,500
7	41,000	102,500
8	32,800	82,000

Anexo H – Estado limite de flexão do tabuleiro

A_p [cm²]	186,000
f_{pyd} [MPa]	1400,000
E_p [GPa]	195,000
ε_{pyd} [‰]	7,200

f_{syk} [MPa]	500,000
f_{syd} [MPa]	434,783
ε_{syd} [‰]	2,174
f_{cd} [MPa]	23,333
f_{ctm} [MPa]	3,200
d_s [m]	2,548

	M^-	M^+
$A_{s,min}$ [cm²]	50,88	25,44
$A_{s,ado}$ [cm²]	11Ø25	6Ø25
A_s [cm²]	108,02	58,92
b_t [m]	1,20	0,60

Tramo	Secção	x [m]	M_{Ed} [kN.m]	F_s [kN]	F_p [kN]	z_s [m]	z_p [m]	M_{Rd} [kN.m]
1º	Apoio	0,000	0,000	4696,522	26040,000	2,274	2,146	66548,414
	Vão	12,300	46324,200	2561,739	26040,000	2,505	2,257	65184,815
	Apoio	32,800	-42068,713	4696,522	26040,000	2,274	2,146	66548,414
2º	Vão	53,300	59232,197	2561,739	26040,000	2,505	2,257	65184,815
	Apoio	73,800	-43711,092	4696,522	26040,000	2,274	2,146	66548,414
3º	Vão	94,300	59949,126	2561,739	26040,000	2,505	2,257	65184,815
	Apoio	114,800	-44047,947	4696,522	26040,000	2,274	2,146	66548,414
4º	Vão	135,300	60133,096	2561,739	26040,000	2,505	2,257	65184,815
	Apoio	155,800	-44298,254	4696,522	26040,000	2,274	2,146	66548,414
5º	Vão	176,300	60291,093	2561,739	26040,000	2,505	2,257	65184,815
	Apoio	196,800	-43735,971	4696,522	26040,000	2,274	2,146	66548,414
6º	Vão	217,300	59481,283	2561,739	26040,000	2,505	2,257	65184,815
	Apoio	237,800	-44938,662	4696,522	26040,000	2,274	2,146	66548,414
7º	Vão	258,300	61047,449	2561,739	26040,000	2,505	2,257	65184,815
	Apoio	278,800	-37170,085	4696,522	26040,000	2,274	2,146	66548,414
8º	Vão	299,300	48936,070	2561,739	26040,000	2,505	2,257	65184,815
	Apoio	311,600	0,000	4696,522	26040,000	2,274	2,146	66548,414

Anexo I – Estado limite de esforço transverso do tabuleiro

d_s [m]	2,554
z [m]	2,299
θ [º]	30,000
$Ø_b$ [mm]	130,000
b_w [m]	2,400
$b_{w,nom}$ [m]	2,400

f_{ck} [MPa]	35,000
f_{syk} [MPa]	500,000
f_{syd} [MPa]	434,783
α [º]	90,000
$α_c$	1,000
ν	0,516

nº de ramos/alma,	4
$(A_{sw/s})_{ado}$ [cm²/m/ramo]	7,540
$(A_{sw/s})_{ado}$ [cm²/m]	60,320

Secção		x [m]	V_{Ed} [kN]	$V_{Rd,s}$ [kN]	$V_{Rd,max}$ [kN]	V_{Rd} [kN]
E1	Direita	2,554	-1201,117	10441,371	28760,853	10441,371
P1	Esquerda	30,246	4590,936	10441,371	28760,853	10441,371
	Direita	35,354	-5367,107	10441,371	28760,853	10441,371
P2	Esquerda	71,246	5411,455	10441,371	28760,853	10441,371
	Direita	76,354	-5556,838	10441,371	28760,853	10441,371
P3	Esquerda	112,246	5320,629	10441,371	28760,853	10441,371
	Direita	117,354	-5530,560	10441,371	28760,853	10441,371
P4	Esquerda	153,246	5378,591	10441,371	28760,853	10441,371
	Direita	158,354	-5550,822	10441,371	28760,853	10441,371
P5	Esquerda	194,246	5357,300	10441,371	28760,853	10441,371
	Direita	199,354	-5494,945	10441,371	28760,853	10441,371
P6	Esquerda	235,246	5385,615	10441,371	28760,853	10441,371
	Direita	240,354	-5578,476	10441,371	28760,853	10441,371
P7	Esquerda	276,246	5188,739	10441,371	28760,853	10441,371
	Direita	281,354	-4803,681	10441,371	28760,853	10441,371
E2	Esquerda	309,046	961,944	10441,371	28760,853	10441,371

Anexo J – Esforços característicos na base dos pilares

Cargas permanentes (CP=PP+PE+RCP)

Pilar	N_k [kN]	$V_{k,x}$ [kN]	$M_{0k,y}$ [kNm]
P1	-6308,424	-0,308	-8,003
P2	-10320,632	0,273	0,195
P3	-8796,120	0,244	1,514
P4	-8035,215	0,219	1,911
P5	-8444,636	0,267	0,738
P6	-9401,141	0,228	-2,536
P7	-8006,653	-0,923	-16,620

Sobrecargas

Pilar	N_k [kN]	$V_{k,x}$ [kN]	$M_{0k,y}$ [kNm]
P1	-1078,419	-0,275	-7,145
P2	-1832,447	-0,203	-0,145
P3	-1208,295	-0,181	-1,124
P4	-980,687	-0,162	-1,418
P5	-1222,565	-0,198	-0,548
P6	-1900,783	-0,169	-2,264
P7	-1557,716	-0,824	-14,839

Variação diferencial da temperatura

Pilar	N_k [kN]	$V_{k,x}$ [kN]	$M_{0k,y}$ [kNm]
P1	-56,762	0,000	-0,010
P2	-13,033	0,000	0,000
P3	-10,061	0,000	0,002
P4	-8,523	0,000	0,003
P5	-10,282	0,000	0,001
P6	-12,931	0,000	-0,003
P7	-81,990	-0,001	-0,021

Variação uniforme da temperatura

Pilar	N_k [kN]	$V_{k,x}$ [kN]	$M_{0k,y}$ [kNm]
P1	-442,744	0,002	-0,040
P2	-50,827	-0,001	0,001
P3	-39,238	-0,001	0,008
P4	-33,240	-0,001	0,010
P5	-40,101	-0,001	0,000
P6	-50,431	0,001	-0,013
P7	-639,519	0,005	-0,084

Ação sísmica

Pilar	N_k [kN]	$V_{k,x}$ [kN]	$V_{k,y}$ [kN]	$M_{0k,x}$ [kNm]	$M_{0k,y}$ [kNm]
P1	-0,048	381,198	-215,762	-5609,816	-9911,152
P2	-2889,764	-622,189	568,527	10289,064	10889,322
P3	-2346,024	-336,559	292,170	6558,260	7236,846
P4	-2099,524	-242,247	201,162	5075,689	5814,651
P5	-2688,976	-506,461	422,234	8234,074	9497,089
P6	-3609,182	1208,945	-1008,695	-14546,524	-16926,493
P7	-0,069	1143,553	-647,263	-11650,733	-20583,954

Anexo K – Efeitos de segunda ordem nos pilares

Imperfeições geométricas

Pilar	Tipo de ligação	L [m]	$L_{0,x}$ [m]	$L_{0,y}$ [m]	$e_{i,x}$ [m]	$e_{i,y}$ [m]
P1	Rotulado	26,000	52,000	52,000	0,087	0,087
P2	Monolítico	35,000	35,000	35,000	0,058	0,058
P3	Monolítico	43,000	43,000	43,000	0,072	0,072
P4	Monolítico	48,000	48,000	48,000	0,080	0,080
P5	Monolítico	37,500	37,500	37,500	0,063	0,063
P6	Monolítico	28,000	28,000	28,000	0,047	0,047
P7	Rotulado	18,000	36,000	36,000	0,060	0,060

K.1 Ação variável base: Sismo

K.1.1 Direção X

Momentos de primeira ordem afetados das imperfeições geométricas

Pilar	$M_{0Ed,yy}$ [kNm]	N_{Ed} [kN]	$M_{0Eqp,yy}$ [kNm]	N_{Eqp} [kN]	$M_{0Ed,i,y}$ [kNm]	$M_{0Eqp,i,y}$ [kNm]
P1	-14874,730	-6308,495	-8,003	-6308,424	-15421,467	-554,733
P2	16334,179	-14655,278	0,195	-10320,632	15479,287	-601,842
P3	10856,783	-12315,155	1,514	-8796,120	9974,196	-628,875
P4	8723,888	-11184,501	1,911	-8035,215	7829,128	-640,906
P5	14246,371	-12478,100	0,738	-8444,636	13466,490	-527,052
P6	-25392,275	-14814,914	-2,536	-9401,141	-26083,638	-441,256
P7	-30892,551	-8006,756	-16,620	-8006,653	-31372,956	-497,019

Verificação da dispensa de efeitos de segunda ordem

Pilar	$\phi_{ef,x}$	A_x	$A_{s,x}$	ω	B	C_x	η_k	$\lambda_{lim,x}$	λ_x
P1	0,0794	0,9844	0,0679	0,2795	1,2486	0,7000	0,0598	70,3873	86,667
P2	-0,0858	1,0175	0,0679	0,2795	1,2486	0,7000	0,1388	47,7326	58,333
P3	-0,1391	1,0286	0,0679	0,2795	1,2486	0,7000	0,1167	52,6418	71,667
P4	-0,1806	1,0375	0,0679	0,2795	1,2486	0,7000	0,1060	55,7143	80,000
P5	-0,0864	1,0176	0,0679	0,2795	1,2486	0,7000	0,1182	51,7355	62,500
P6	0,0373	0,9926	0,0679	0,2795	1,2486	0,7000	0,1403	46,3145	46,667
P7	0,0350	0,9931	0,0679	0,2795	1,2486	0,7000	0,0759	63,0293	60,000

Momento de cálculo total

Pilar	EI_y [kNm²]	$k_{e,x}$	$N_{B,x}$ [kN]	$M_{Ed,y}$ [kNm]
P1	13314747,656	0,289	48598,851	-17721,902
P2	14463480,486	0,313	116529,658	17706,081
P3	14877954,472	0,322	79415,644	11804,791
P4	15217359,957	0,330	65186,338	9450,645
P5	14467775,340	0,314	101540,423	15353,216
P6	13589501,746	0,295	171075,263	-28556,606
P7	13605336,141	0,295	103610,560	-34000,420

K.1.2 Direção Y

Momentos de primeira ordem afetados das imperfeições geométricas

Pilar	$M_{0Ed,xx}$ [kNm]	N_{Ed} [kN]	$M_{0Eqp,xx}$ [kNm]	N_{Eqp} [kN]	$M_{0Ed,i,x}$ [kNm]	$M_{0Eqp,i,x}$ [kNm]
P1	-8422,726	-6308,495	0,000	-6308,424	-8969,462	-546,730
P2	15433,791	-14655,278	0,000	-10320,632	14578,900	-602,037
P3	9838,904	-12315,155	0,000	-8796,120	8956,318	-630,389
P4	7615,445	-11184,501	0,000	-8035,215	6720,685	-642,817
P5	12351,849	-12478,100	0,000	-8444,636	11571,967	-527,790
P6	-21822,322	-14814,914	0,000	-9401,141	-22513,684	-438,720
P7	-17492,720	-8006,756	0,000	-8006,653	-17973,125	-480,399

Verificação da dispensa de efeitos de segunda ordem

Pilar	$\phi_{ef,y}$	A_y	$A_{s,y}$	ω	B	C_y	η_k	$\lambda_{lim,y}$	λ_y
P1	0,1345	0,9738	0,0679	0,2795	1,2486	0,7000	0,0598	69,6316	86,667
P2	-0,0911	1,0186	0,0679	0,2795	1,2486	0,7000	0,1388	47,7844	58,333
P3	-0,1553	1,0321	0,0679	0,2795	1,2486	0,7000	0,1167	52,8177	71,667
P4	-0,2110	1,0441	0,0679	0,2795	1,2486	0,7000	0,1060	56,0682	80,000
P5	-0,1006	1,0205	0,0679	0,2795	1,2486	0,7000	0,1182	51,8862	62,500
P6	0,0430	0,9915	0,0679	0,2795	1,2486	0,7000	0,1403	46,2624	46,667
P7	0,0590	0,9883	0,0679	0,2795	1,2486	0,7000	0,0759	62,7301	60,000

Momento de cálculo total

Pilar	EI_x [kNm²]	$k_{e,y}$	$N_{B,y}$ [kN]	$M_{Ed,x}$ [kNm]
P1	12970904,164	0,281	47343,821	-10348,367
P2	14503846,282	0,314	116854,878	16669,494
P3	15008472,093	0,325	80112,321	10583,206
P4	15476087,720	0,335	66294,646	8084,636
P5	14576532,747	0,316	102303,724	13179,484
P6	13551786,407	0,294	170600,473	-24654,693
P7	13446620,519	0,291	102401,871	-19497,637

K.2 Ação variável base: Sobrecarga

Momentos de primeira ordem afetados das imperfeições geométricas

Pilar	$M_{0Ed,yy}$ [kNm]	N_{Ed} [kN]	$M_{0Eqp,yy}$ [kNm]	N_{Eqp} [kN]	$M_{0Ed,i,y}$ [kNm]	$M_{0Eqp,i,y}$ [kNm]
P1	-18,720	-7926,053	-8,003	-6308,424	-705,644	-554,733
P2	-0,022	-13069,303	0,195	-10320,632	-762,398	-601,842
P3	-0,171	-10608,563	1,514	-8796,120	-760,452	-628,875
P4	-0,216	-9506,246	1,911	-8035,215	-760,716	-640,906
P5	-0,084	-10278,484	0,738	-8444,636	-642,489	-527,052
P6	-5,932	-12252,316	-2,536	-9401,141	-577,707	-441,256
P7	-38,878	-10343,227	-16,620	-8006,653	-659,472	-497,019

Verificação da dispensa de efeitos de segunda ordem

Pilar	$\phi_{ef,x}$	A_x	$A_{s,x}$	ω	B	C_x	η_k	$\lambda_{lim,x}$	λ_x
P1	1,763	0,739	0,068	0,280	1,249	0,700	0,075	47,160	86,667
P2	1,771	0,738	0,068	0,280	1,249	0,700	0,124	36,687	58,333
P3	1,855	0,729	0,068	0,280	1,249	0,700	0,101	40,219	71,667
P4	1,890	0,726	0,068	0,280	1,249	0,700	0,090	42,272	80,000
P5	1,840	0,731	0,068	0,280	1,249	0,700	0,097	40,949	62,500
P6	1,713	0,745	0,068	0,280	1,249	0,700	0,116	38,214	46,667
P7	1,691	0,747	0,068	0,280	1,249	0,700	0,098	41,733	60,000

Momento de cálculo total

Pilar	EI_y [kNm^2]	$k_{e,x}$	$N_{B,x}$ [kN]	$M_{Ed,y}$ [kNm]
P1	7356770,521	0,159	26852,224	-1001,160
P2	7342458,915	0,159	59156,869	-978,595
P3	7181953,060	0,156	38335,876	-1051,403
P4	7117640,452	0,154	30489,712	-1105,347
P5	7209837,802	0,156	50601,420	-806,262
P6	7456008,001	0,162	93862,053	-664,440
P7	7501973,155	0,163	57130,793	-805,260

Anexo L – Esforços de cálculo na base dos pilares

L.1 Ação variável base: Sismo

Pilar	N_{Ed} [kN]	$V_{Ed,x}$ [kN]	$V_{Ed,y}$ [kN]	$M_{Ed,y}$ [kNm]	$M_{Ed,x}$ [kNm]	M_{Ed} [kNm]
P1	-6308,495	571,489	-323,643	-17721,902	-10348,367	17730,334
P2	-14655,278	-933,011	852,791	17706,081	16669,494	17726,707
P3	-12315,155	-504,595	438,254	11804,791	10583,206	11837,738
P4	-11184,501	-363,151	301,742	9450,645	8084,636	9492,907
P5	-12478,100	-759,425	633,350	15353,216	13179,484	15373,010
P6	-14814,914	1813,646	-1513,042	-28556,606	-24654,693	28564,974
P7	-8006,756	1714,407	-970,895	-34000,420	-19497,637	34003,814

L.2 Ação variável base: Sobrecarga

Pilar	N_{Ed} [kN]	$V_{Ed,x}$ [kN]	$M_{Ed,y}$ [kNm]
P1	-7926,053	-0,721	-1001,160
P2	-13069,303	-0,032	-978,595
P3	-10608,563	-0,028	-1051,403
P4	-9506,246	-0,024	-1105,347
P5	-10278,484	-0,030	-806,262
P6	-12252,316	-0,026	-664,440
P7	-10343,227	-2,159	-805,260

Anexo M – Esforços característicos nos encontros

Cargas permanentes

(CP=PP+PE+RCP)

Encontro	$F_{V,k}$ [kN]
E1	2560,098
E2	2564,513

Sobrecargas

Encontro	$F_{V,k,max}$ [kN]	$F_{V,k,min}$ [kN]
E1	1371,725	-180,349
E2	1409,714	-179,756

Variação diferencial da temperatura

Encontro	$F_{V,k,max}$ [kN]	$F_{V,k,min}$ [kN]
E1	222,671	-111,335
E2	222,676	-111,338

Variação uniforme da temperatura

Encontro	$F_{V,k,max}$ [kN]	$F_{V,k,min}$ [kN]
E1	868,415	-868,415
E2	868,438	-868,438

Ação sísmica

Encontro	$F_{V,k,max}$ [kN]	$F_{V,k,min}$ [kN]	$F_{HL,k,max}$ [kN]	$F_{HL,k,min}$ [kN]	$F_{HT,k,max}$ [kN]	$F_{HT,k,min}$ [kN]
E1	0,61	-0,610	25,631	-25,631	841,415	-841,415
E2	0,55	-0,550	25,631	-25,631	1140,301	-1140,301

Anexo N – Estado limite de derrubamento dos encontros (EQU)

Encontro	φ'_d [^{0}]	$\gamma_{h,d}$ [kN/m^3]	δ'_d [^{0}]	i [^{0}]	ϕ_1 [^{0}]	ϕ_2 [^{0}]	θ_1[^{0}]	θ_2[^{0}]
E1	29,256	19,000	19,504	-0,859	0,000	17,560	8,637	9,593
E2	29,256	19,000	19,504	0,859	0,000	17,878	8,637	9,593

Encontro	$k_{0,d}$	$k_{a,d1}$	$k_{a,d2}$	$k_{s1,d1}$	$k_{s2,d1}$	$k_{s1,d2}$	$k_{s2,d2}$
E1	0,511	0,303	0,454	0,414	0,429	0,587	0,606
E2	0,511	0,309	0,470	0,425	0,442	0,612	0,633

N.1 Encontro E1

Designação	Impulso / Força [kN]		Braço	Momento [kNm]	
	E_k	E_d		Derrubante (M_{dst})	Estabilizante (M_{stb})
$I_{a,H1,CP}$	278,109	278,109	10,417	2896,967	-
$I_{a,V1,CP}$	98,506	98,506	8,500	837,298	-
$I_{0,H1,CP}$	469,406	469,406	10,417	4889,650	-
$I_{0,V1,CP}$	166,263	166,263	8,500	1413,234	-
$I_{a,H2,CP}$	337,094	337,094	5,450	1837,162	-
$I_{a,V2,CP}$	254,610	254,610	8,500	2164,183	-
$I_{0,H2,CP}$	379,402	379,402	5,450	2067,741	-
$I_{0,V2,CP}$	286,565	286,565	8,500	2435,806	-
$I_{a,H3,CP}$	204,031	204,031	4,217	860,329	-
$I_{a,V3,CP}$	154,106	154,106	8,500	1309,900	-
$I_{0,H3,CP}$	229,638	229,638	4,217	968,307	-
$I_{0,V3,CP}$	173,447	173,447	8,500	1474,304	-
$I_{a,H4,SC}$	77,038	77,038	11,050	851,275	-
$I_{a,V4,SC}$	27,287	27,287	8,500	231,938	-
$I_{0,H4,SC}$	110,075	110,075	11,050	1216,328	-
$I_{0,V4,SC}$	46,056	46,056	8,500	391,478	-
$I_{a,H5,SC}$	46,689	46,689	5,450	254,455	-
$I_{a,V5,SC}$	35,265	35,265	8,500	299,748	-
$I_{0,H5,SC}$	52,549	52,549	5,450	286,391	-
$I_{0,V5,SC}$	39,690	39,690	8,500	337,369	-

Designação	Impulso / Força [kN]		Braço	Momento [kNm]	
	E_k	E_d		Derrubante (M_{dst})	Estabilizante (M_{stb})
$I_{a,H6,E}$	279,792	279,792	11,050	3091,702	-
$I_{a,V6,E}$	99,102	99,102	8,500	842,365	-
$I_{a,H7,E}$	231,133	231,133	11,683	2700,398	-
$I_{a,V7,E}$	81,867	81,867	8,500	695,867	-
$I_{a,H8,E}$	136,612	136,612	6,683	913,026	-
$I_{a,V8,E}$	103,184	103,184	8,500	877,067	-
$F_{H,esp+viga\ est}$	173,684	173,684	10,392	1804,904	-
$F_{V,esp+viga\ est}$	1085,523	1085,523	3,639	-	3950,054
$F_{H,gigante}$	223,417	223,417	4,874	1088,970	-
$F_{V,gigante}$	1396,353	1396,353	3,777	-	5273,426
$F_{H,sapata}$	0,000	0,000	0,625	0,000	-
$F_{V,sapata}$	1195,313	1195,313	4,250	-	5080,078
$F_{H,solo1}$	671,810	671,810	8,129	5461,126	-
$F_{V,solo1}$	4198,810	4198,810	7,030	-	29519,186
$F_{H,solo2}$	85,530	85,530	2,901	248,133	-
$F_{V,solo2}$	534,564	534,564	0,600	-	320,739
$F_{Ed,H,tab,E}$	-	64,002	10,150	649,625	-
$F_{Ed,V,tab,E}$	-	1280,049	2,080	-	2662,502
$F_{Ed,H,tab,SC,max}$	-	146,392	10,150	1485,877	-
$F_{Ed,V,tab,SC,max}$	-	1152,044	2,080	-	2396,252
$F_{Ed,H,tab,SC,min}$	-	41,595	10,150	422,192	-
$F_{Ed,V,tab,SC,min}$	-	575,895	2,080	-	1197,861
(i) Somatório				18820,261	42391,636
(ii) Somatório				19656,513	42125,386
(iii) Somatório				18592,828	40926,995

N.2 Encontro E2

Designação	Impulso / Força [kN]		Braço	Momento [kNm]	
	E_k	E_d		Derrubante (M_{dst})	Estabilizante (M_{stb})
$I_{a,H1,CP}$	295,668	295,668	8,493	2511,012	-
$I_{a,V1,CP}$	104,725	104,725	8,000	837,801	-
$I_{0,H1,CP}$	488,875	488,875	8,493	4151,849	-
$I_{0,V1,CP}$	173,158	173,158	8,000	1385,267	-

Designação	Impulso / Força [kN]		Braço	Momento [kNm]	
	E_k	E_d		Derrubante (M_{dst})	Estabilizante (M_{stb})
$I_{a,H2,CP}$	225,872	225,872	4,350	982,543	-
$I_{a,V2,CP}$	172,580	172,580	8,000	1380,640	-
$I_{0,H2,CP}$	245,849	245,849	4,350	1069,442	-
$I_{0,V2,CP}$	187,844	187,844	8,000	1502,748	-
$I_{a,H3,CP}$	99,656	99,656	3,400	338,831	-
$I_{a,V3,CP}$	76,143	76,143	8,000	609,148	-
$I_{0,H3,CP}$	108,470	108,470	3,400	368,799	-
$I_{0,V3,CP}$	82,878	82,878	8,000	663,023	-
$I_{a,H4,SC}$	80,255	80,255	9,139	733,453	-
$I_{a,V4,SC}$	28,426	28,426	8,000	227,410	-
$I_{0,H4,SC}$	132,699	132,699	9,139	1212,732	-
$I_{0,V4,SC}$	47,002	47,002	8,000	376,012	-
$I_{a,H5,SC}$	30,655	30,655	4,350	133,349	-
$I_{a,V5,SC}$	23,422	23,422	8,000	187,378	-
$I_{0,H5,SC}$	33,366	33,366	4,350	145,143	-
$I_{0,V5,SC}$	25,494	25,494	8,000	203,951	-
$I_{a,H6,E}$	275,279	275,279	9,139	2515,774	-
$I_{a,V6,E}$	97,503	97,503	8,000	780,026	-
$I_{a,H7,E}$	253,119	253,119	9,785	2476,856	-
$I_{a,V7,E}$	89,654	89,654	8,000	717,235	-
$I_{a,H8,E}$	69,217	69,217	5,300	366,851	-
$I_{a,V8,E}$	52,886	52,886	8,000	423,089	-
$F_{H,esp+viga\ est}$	175,304	175,304	8,466	1484,159	-
$F_{V,esp+viga\ est}$	1095,649	1095,649	3,646	-	3995,043
$F_{H,gigante}$	142,852	142,852	3,885	554,950	-
$F_{V,gigante}$	892,823	892,823	3,635	-	3245,162
$F_{H,sapata}$	0,000	0,000	0,500	0,000	-
$F_{V,sapata}$	900,000	900,000	4,000	-	3600,000
$F_{H,solo1}$	523,880	523,880	6,846	3586,490	-
$F_{V,solo1}$	3274,247	3274,247	6,704	-	21949,242
$F_{H,solo2}$	71,951	71,951	2,389	171,890	-
$F_{V,solo2}$	449,695	449,695	0,600	-	269,817
$F_{Ed,H,tab,E}$	-	64,113	8,700	557,782	-
$F_{Ed,V,tab,E}$	-	1282,257	2,080	-	2667,094
$F_{Ed,H,tab,SC,max}$	-	147,938	8,700	1287,064	-
$F_{Ed,V,tab,SC,max}$	-	1154,031	2,080	-	2400,384

Designação	Impulso / Força [kN]		Braço	Momento [kNm]	
	E_k	E_d		Derrubante (M_{dst})	Estabilizante (M_{stb})
$F_{Ed,H,tab,SC,min}$	-	41,738	8,700	363,123	-
$F_{Ed,V,tab,SC,min}$	-	578,315	2,080	-	1202,894
(i) Somatório				13877,014	32420,430
(ii) Somatório				14606,296	32153,721
(iii) Somatório				13682,355	30956,231

Anexo O – Estado limite de deslizamento dos encontros (GEO e STR)

Encontro	φ'_d [^{0}]	$\gamma_{h,d}$ [kN/m^3]	δ'_d [^{0}]	i [^{0}]	ϕ_1 [^{0}]	ϕ_2 [^{0}]	θ_1[^{0}]	θ_2[^{0}]
E1	29,256	19,000	19,504	-0,859	0,000	17,560	8,637	9,593
E2	29,256	19,000	19,504	0,859	0,000	17,878	8,637	9,593

Encontro	$k_{0,d}$	$k_{a,d1}$	$k_{a,d2}$	$k_{s1,d1}$	$k_{s2,d1}$	$k_{s1,d2}$	$k_{s2,d2}$
E1	0,511	0,303	0,454	0,414	0,429	0,587	0,606
E2	0,511	0,309	0,470	0,425	0,442	0,612	0,633

O.1 Encontro E1

O.1.1 Abordagem de cálculo 1 (GEO e STR): Combinação 1

Designação	γ	Impulso / Força [kN]		Força [kN]	
		E_k	E_d	Deslizante (F_{dst})	Estabilizante (F_{stb})
$I_{a,H1,CP}$	1,000	278,109	278,109	278,109	-
$I_{a,V1,CP}$	1,350	98,506	132,983	-	47,102
$I_{0,H1,CP}$	1,000	469,406	469,406	469,406	-
$I_{0,V1,CP}$	1,350	166,263	224,455	-	79,501
$I_{a,H2,CP}$	1,000	337,094	337,094	337,094	-
$I_{a,V2,CP}$	1,350	254,610	343,723	-	121,746
$I_{0,H2,CP}$	1,000	379,402	379,402	379,402	-
$I_{0,V2,CP}$	1,350	286,565	386,863	-	137,026
$I_{a,H3,CP}$	1,000	204,031	204,031	204,031	-
$I_{a,V3,CP}$	1,350	154,106	208,043	-	73,688
$I_{0,H3,CP}$	1,000	229,638	229,638	229,638	-
$I_{0,V3,CP}$	1,350	173,447	234,154	-	82,937
$I_{a,H4,SC}$	0,000	77,038	0,000	0,000	-
$I_{a,V4,SC}$	1,500	27,287	40,930	-	14,497
$I_{0,H4,SC}$	0,000	110,075	0,000	0,000	-
$I_{0,V4,SC}$	1,500	46,056	69,084	-	24,470
$I_{a,H5,SC}$	0,000	46,689	0,000	0,000	-

Designação	γ	Impulso / Força [kN]		Força [kN]	
		E_k	E_d	Deslizante (F_{dst})	Estabilizante (M_{stb})
$I_{a,V5,SC}$	1,500	35,265	52,897	-	18,736
$I_{0,H5,SC}$	0,000	52,549	0,000	0,000	-
$I_{0,V5,SC}$	1,500	39,690	59,536	-	21,087
$I_{a,H6,E}$	0,000	279,792	0,000	0,000	-
$I_{a,V6,E}$	0,000	99,102	0,000	-	0,000
$I_{a,H7,E}$	0,000	231,133	0,000	0,000	-
$I_{a,V7,E}$	0,000	81,867	0,000	-	0,000
$I_{a,H8,E}$	0,000	136,612	0,000	0,000	-
$I_{a,V8,E}$	0,000	103,184	0,000	-	0,000
$F_{H,esp+viga\ est}$	1,000	173,684	173,684	173,684	-
$F_{V,esp+viga\ est}$	1,350	1085,523	1465,455	-	519,061
$F_{H,gigante}$	1,000	223,417	223,417	223,417	-
$F_{V,gigante}$	1,350	1396,353	1885,077	-	667,691
$F_{H,sapata}$	1,000	0,000	0,000	0,000	-
$F_{V,sapata}$	1,350	1195,313	1613,672	-	571,559
$F_{H,solo1}$	1,000	671,810	671,810	671,810	-
$F_{V,solo1}$	1,350	4198,810	5668,393	-	2007,734
$F_{H,solo2}$	1,000	85,530	85,530	85,530	-
$F_{V,solo2}$	1,350	534,564	721,662	-	255,611
$F_{Ed,H,tab,E}$	-	-	64,025	64,025	-
$F_{Ed,V,tab,E}$	-	-	1280,507	-	453,553
$F_{Ed,H,tab,SC,max}$	-	-	64,002	64,002	-
$F_{Ed,V,tab,SC,max}$	-	-	2597,194	-	919,921
$F_{Ed,H,tab,SC,min}$	-	-	64,002	64,002	-
$F_{Ed,V,tab,SC,min}$	-	-	1779,378	0,000	630,252
(i) Somatório				2037,699	4321,236
(ii) Somatório				2037,676	4787,604
(iii) Somatório				2037,676	4497,936

O.1.2 Abordagem de cálculo 1 (GEO e STR): Combinação 2

Designação	γ	Impulso / Força [kN]		Força [kN]	
		E_k	E_d	Deslizante (F_{dst})	Estabilizante (M_{stb})
$I_{a,H1,CP}$	1,000	278,109	278,109	278,109	-
$I_{a,V1,CP}$	1,000	98,506	98,506	-	34,890
$I_{0,H1,CP}$	1,000	469,406	469,406	469,406	-
$I_{0,V1,CP}$	1,000	166,263	166,263	-	58,890
$I_{a,H2,CP}$	1,000	337,094	337,094	337,094	-
$I_{a,V2,CP}$	1,000	254,610	254,610	-	90,182
$I_{0,H2,CP}$	1,000	379,402	379,402	379,402	-
$I_{0,V2,CP}$	1,000	286,565	286,565	-	101,501
$I_{a,H3,CP}$	1,000	204,031	204,031	204,031	-
$I_{a,V3,CP}$	1,000	154,106	154,106	-	54,584
$I_{0,H3,CP}$	1,000	229,638	229,638	229,638	-
$I_{0,V3,CP}$	1,000	173,447	173,447	-	61,435
$I_{a,H4,SC}$	0,000	77,038	0,000	0,000	-
$I_{a,V4,SC}$	1,300	27,287	35,473	-	12,564
$I_{0,H4,SC}$	0,000	110,075	0,000	0,000	-
$I_{0,V4,SC}$	1,300	46,056	59,873	-	21,207
$I_{a,H5,SC}$	0,000	46,689	0,000	0,000	-
$I_{a,V5,SC}$	1,300	35,265	45,844	-	16,238
$I_{0,H5,SC}$	0,000	52,549	0,000	0,000	-
$I_{0,V5,SC}$	1,300	39,690	51,598	-	18,276
$I_{a,H6,E}$	0,000	279,792	0,000	0,000	-
$I_{a,V6,E}$	0,000	99,102	0,000	-	0,000
$I_{a,H7,E}$	0,000	231,133	0,000	0,000	-
$I_{a,V7,E}$	0,000	81,867	0,000	-	0,000
$I_{a,H8,E}$	0,000	136,612	0,000	0,000	-
$I_{a,V8,E}$	0,000	103,184	0,000	-	0,000
$F_{H,esp+viga\ est}$	1,000	173,684	173,684	173,684	-
$F_{V,esp+viga\ est}$	1,000	1085,523	1085,523	-	384,490
$F_{H,gigante}$	1,000	223,417	223,417	223,417	-
$F_{V,gigante}$	1,000	1396,353	1396,353	-	494,586
$F_{H,sapata}$	1,000	0,000	0,000	0,000	-
$F_{V,sapata}$	1,000	1195,313	1195,313	-	423,377
$F_{H,solo1}$	1,000	671,810	671,810	671,810	-
$F_{V,solo1}$	1,000	4198,810	4198,810	-	1487,210

Designação	γ	Impulso / Força [kN]		Força [kN]	
		E_k	E_d	Deslizante (F_{dst})	Estabilizante (M_{stb})
$F_{H,solo2}$	1,000	85,530	85,530	85,530	-
$F_{V,solo2}$	1,000	534,564	534,564	-	189,342
$F_{Ed,H,tab,E}$	-	-	64,025	64,025	-
$F_{Ed,V,tab,E}$	-	-	1280,507	-	453,553
$F_{Ed,H,tab,SC,max}$	-	-	64,002	64,002	-
$F_{Ed,V,tab,SC,max}$	-	-	2597,194	-	919,921
$F_{Ed,H,tab,SC,min}$	-	-	64,002	64,002	0,000
$F_{Ed,V,tab,SC,min}$	-	-	1779,378	0,000	630,252
(i) Somatório				2037,699	3641,016
(ii) Somatório				2037,676	4107,385
(iii) Somatório				2037,676	3817,716

O.2 Encontro E2

O.2.1 Abordagem de cálculo 1 (GEO e STR): Combinação 1

Designação	γ	Impulso / Força [kN]		Força [kN]	
		E_k	E_d	Deslizante (F_{dst})	Estabilizante (M_{stb})
$I_{a,H1,CP}$	1,000	295,668	295,668	295,668	-
$I_{a,V1,CP}$	1,350	104,725	141,379	-	50,076
$I_{0,H1,CP}$	1,000	488,875	488,875	488,875	-
$I_{0,V1,CP}$	1,350	173,158	233,764	-	82,799
$I_{a,H2,CP}$	1,000	225,872	225,872	225,872	-
$I_{a,V2,CP}$	1,350	172,580	232,983	-	82,522
$I_{0,H2,CP}$	1,000	245,849	245,849	245,849	-
$I_{0,V2,CP}$	1,350	187,844	253,589	-	89,821
$I_{a,H3,CP}$	1,000	99,656	99,656	99,656	-
$I_{a,V3,CP}$	1,350	76,143	102,794	-	36,409
$I_{0,H3,CP}$	1,000	108,470	108,470	108,470	-
$I_{0,V3,CP}$	1,350	82,878	111,885	-	39,629
$I_{a,H4,SC}$	0,000	80,255	0,000	0,000	-
$I_{a,V4,SC}$	1,500	28,426	42,639	-	15,103

Designação	γ	Impulso / Força [kN]		Força [kN]	
		E_k	E_d	Deslizante (F_{dst})	Estabilizante (M_{stb})
$I_{0,H4,SC}$	0,000	132,699	0,000	0,000	-
$I_{0,V4,SC}$	1,500	47,002	70,502	-	24,972
$I_{a,H5,SC}$	0,000	30,655	0,000	0,000	-
$I_{a,V5,SC}$	1,500	23,422	35,133	-	12,444
$I_{0,H5,SC}$	0,000	33,366	0,000	0,000	-
$I_{0,V5,SC}$	1,500	25,494	38,241	-	13,545
$I_{a,H6,E}$	0,000	275,279	0,000	0,000	-
$I_{a,V6,E}$	0,000	97,503	0,000	-	0,000
$I_{a,H7,E}$	0,000	253,119	0,000	0,000	-
$I_{a,V7,E}$	0,000	89,654	0,000	-	0,000
$I_{a,H8,E}$	0,000	69,217	0,000	0,000	-
$I_{a,V8,E}$	0,000	52,886	0,000	-	0,000
$F_{H,esp+viga\ est}$	1,000	175,304	175,304	175,304	-
$F_{V,esp+viga\ est}$	1,350	1095,649	1479,126	-	523,904
$F_{H,gigante}$	1,000	142,852	142,852	142,852	-
$F_{V,gigante}$	1,350	892,823	1205,311	-	426,919
$F_{H,sapata}$	1,000	0,000	0,000	0,000	-
$F_{V,sapata}$	1,350	900,000	1215,000	-	430,351
$F_{H,solo1}$	1,000	523,880	523,880	523,880	-
$F_{V,solo1}$	1,350	3274,247	4420,233	-	1565,638
$F_{H,solo2}$	1,000	71,951	71,951	71,951	-
$F_{V,solo2}$	1,350	449,695	607,088	-	215,029
$F_{Ed,H,tab,E}$	-	-	64,133	64,133	-
$F_{Ed,V,tab,E}$	-	-	1282,669	-	454,319
$F_{Ed,H,tab,SC,max}$	-	-	64,113	64,113	-
$F_{Ed,V,tab,SC,max}$	-	-	2624,105	-	929,453
$F_{Ed,H,tab,SC,min}$	-	-	64,113	64,113	-
$F_{Ed,V,tab,SC,min}$	-	-	1781,211	-	630,901
(i) Somatório				1599,316	3476,874
(ii) Somatório				1599,295	3952,008
(iii) Somatório				1599,295	3653,456

O.1.3 Abordagem de cálculo 1 (GEO e STR): Combinação 2

Designação	γ	Impulso / Força [kN]		Força [kN]	
		E_k	E_d	Deslizante (F_{dst})	Estabilizante (M_{stb})
$I_{a,H1,CP}$	1,000	295,668	295,668	295,668	-
$I_{a,V1,CP}$	1,000	104,725	104,725	-	37,093
$I_{0,H1,CP}$	1,000	488,875	488,875	488,875	-
$I_{0,V1,CP}$	1,000	173,158	173,158	-	61,332
$I_{a,H2,CP}$	1,000	225,872	225,872	225,872	-
$I_{a,V2,CP}$	1,000	172,580	172,580	-	61,127
$I_{0,H2,CP}$	1,000	245,849	245,849	245,849	-
$I_{0,V2,CP}$	1,000	187,844	187,844	-	66,534
$I_{a,H3,CP}$	1,000	99,656	99,656	99,656	-
$I_{a,V3,CP}$	1,000	76,143	76,143	-	26,970
$I_{0,H3,CP}$	1,000	108,470	108,470	108,470	-
$I_{0,V3,CP}$	1,000	82,878	82,878	-	29,355
$I_{a,H4,SC}$	0,000	80,255	0,000	0,000	-
$I_{a,V4,SC}$	1,300	28,426	36,954	-	13,089
$I_{0,H4,SC}$	0,000	132,699	0,000	0,000	-
$I_{0,V4,SC}$	1,300	47,002	61,102	-	21,642
$I_{a,H5,SC}$	0,000	30,655	0,000	0,000	-
$I_{a,V5,SC}$	1,300	23,422	30,449	-	10,785
$I_{0,H5,SC}$	0,000	33,366	0,000	0,000	-
$I_{0,V5,SC}$	1,300	25,494	33,142	-	11,739
$I_{a,H6,E}$	0,000	275,279	0,000	0,000	-
$I_{a,V6,E}$	0,000	97,503	0,000	-	0,000
$I_{a,H7,E}$	0,000	253,119	0,000	0,000	-
$I_{a,V7,E}$	0,000	89,654	0,000	-	0,000
$I_{a,H8,E}$	0,000	69,217	0,000	0,000	-
$I_{a,V8,E}$	0,000	52,886	0,000	-	0,000
$F_{H,esp+viga\ est}$	1,000	175,304	175,304	175,304	-
$F_{V,esp+viga\ est}$	1,000	1095,649	1095,649	-	388,077
$F_{H,gigante}$	1,000	142,852	142,852	142,852	-
$F_{V,gigante}$	1,000	892,823	892,823	-	316,236
$F_{H,sapata}$	1,000	0,000	0,000	0,000	-
$F_{V,sapata}$	1,000	900,000	900,000	-	318,778
$F_{H,solo1}$	1,000	523,880	523,880	523,880	-
$F_{V,solo1}$	1,000	3274,247	3274,247	-	1159,732

Designação	γ	Impulso / Força [kN]		Força [kN]	
		E_k	E_d	Deslizante (F_{dst})	Estabilizante (M_{stb})
$F_{H,solo2}$	1,000	71,951	71,951	71,951	-
$F_{V,solo2}$	1,000	449,695	449,695	-	159,281
$F_{Ed,H,tab,E}$	-	-	64,133	64,133	-
$F_{Ed,V,tab,E}$	-	-	1282,669	-	454,319
$F_{Ed,H,tab,SC,max}$	-	-	64,113	64,113	-
$F_{Ed,V,tab,SC,max}$	-	-	2624,105	-	929,453
$F_{Ed,H,tab,SC,min}$	-	-	64,113	64,113	-
$F_{Ed,V,tab,SC,min}$	-	-	1781,211	-	630,901
(i) Somatório				2037,699	3641,016
(ii) Somatório				2037,676	4107,385
(iii) Somatório				2037,676	3817,716

Anexo P – Estado limite de rotura do terreno de fundação dos encontros (GEO e STR)

Encontro	φ'_d [º]	$\gamma_{h,d}$ [kN/m³]	δ'_d [º]	i [º]	ϕ_1 [º]	ϕ_2 [º]	θ_1[º]	θ_2[º]
E1	29,256	19,000	19,504	-0,859	0,000	17,560	8,637	9,593
E2	29,256	19,000	19,504	0,859	0,000	17,878	8,637	9,593

Encontro	$k_{0,d}$	$k_{a,d1}$	$k_{a,d2}$	$k_{s1,d1}$	$k_{s2,d1}$	$k_{s1,d2}$	$k_{s2,d2}$
E1	0,511	0,303	0,454	0,414	0,429	0,587	0,606
E2	0,511	0,309	0,470	0,425	0,442	0,612	0,633

P.1 Encontro E1

Designação	γ	Impulso / Força [kN]		Braço [m]	Horizontal		Vertical	
		E_k	E_d		$F_{ed,Hi}$ [kN]	$F_{ed,Hi}$ x br_{Hi} [kNm]	$F_{ed,Vi}$ [kN]	$F_{ed,Vi}$ x br_{Vi} [kNm]
$I_{a,H1,CP}$	1,000	278,109	278,109	10,417	278,109	2896,967	-	-
$I_{a,V1,CP}$	1,000	98,506	98,506	4,250	-	-	98,506	418,649
$I_{0,H1,CP}$	1,000	469,406	469,406	10,417	469,406	4889,650	-	-
$I_{0,V1,CP}$	1,000	166,263	166,263	4,250	-	-	166,263	706,617
$I_{a,H2,CP}$	1,000	337,094	337,094	5,450	337,094	1837,162	-	-
$I_{a,V2,CP}$	1,000	254,610	254,610	4,250	-	-	254,610	1082,091
$I_{0,H2,CP}$	1,000	379,402	379,402	5,450	379,402	2067,741	-	-
$I_{0,V2,CP}$	1,000	286,565	286,565	4,250	-	-	286,565	1217,903
$I_{a,H3,CP}$	1,000	204,031	204,031	4,217	204,031	860,329	-	-
$I_{a,V3,CP}$	1,000	154,106	154,106	4,250	-	-	154,106	654,950
$I_{0,H3,CP}$	1,000	229,638	229,638	4,217	229,638	968,307	-	-
$I_{0,V3,CP}$	1,000	173,447	173,447	4,250	-	-	173,447	737,152
$I_{a,H4,SC}$	0,000	77,038	0,000	11,050	0,000	0,000	-	-
$I_{a,V4,SC}$	1,300	27,287	35,473	4,250	-	-	35,473	150,760
$I_{0,H4,SC}$	0,000	110,075	0,000	11,050	0,000	0,000	-	-
$I_{0,V4,SC}$	1,300	46,056	59,873	4,250	-	-	59,873	254,460
$I_{a,H5,SC}$	0,000	46,689	0,000	5,450	0,000	0,000	-	-
$I_{a,V5,SC}$	1,300	35,265	45,844	4,250	-	-	45,844	194,836
$I_{0,H5,SC}$	0,000	52,549	0,000	5,450	0,000	0,000	-	-
$I_{0,V5,SC}$	1,300	39,690	51,598	4,250	-	-	51,598	219,290

Designação	γ	Impulso / Força [kN]		Braço [m]	Horizontal		Vertical	
		E_k	E_d		$F_{ed,Hi}$ [kN]	$F_{ed,Hi}$ x br_{Hi} [kNm]	$F_{ed,Vi}$ [kN]	$F_{ed,Vi}$ x br_{Vi} [kNm]
$I_{a,H6,E}$	0,000	279,792	0,000	11,050	0,000	0,000	-	-
$I_{a,V6,E}$	0,000	99,102	0,000	4,250	-	-	0,000	0,000
$I_{a,H7,E}$	0,000	231,133	0,000	11,683	0,000	0,000	-	-
$I_{a,V7,E}$	0,000	81,867	0,000	4,250	-	-	0,000	0,000
$I_{a,H8,E}$	0,000	136,612	0,000	6,683	0,000	0,000	-	-
$I_{a,V8,E}$	0,000	103,184	0,000	4,250	-	-	0,000	0,000
$F_{H,esp+viga\ est}$	1,000	0,000	0,000	10,392	0,000	0,000	-	-
$F_{V,esp+viga\ est}$	1,000	1085,523	1085,523	-0,611	-	-	1085,523	-663,417
$F_{H,gigante}$	1,000	0,000	0,000	4,874	0,000	0,000	-	-
$F_{V,gigante}$	1,000	1396,353	1396,353	-0,473	-	-	1396,353	-661,076
$F_{H,sapata}$	1,000	0,000	0,000	0,625	0,000	0,000	-	-
$F_{V,sapata}$	1,000	1195,313	1195,313	0,000	-	-	1195,313	0,000
$F_{H,solo1}$	1,000	0,000	0,000	8,129	0,000	0,000	-	-
$F_{V,solo1}$	1,000	4198,810	4198,810	2,780	-	-	4198,810	11674,245
$F_{H,solo2}$	1,000	0,000	0,000	2,901	0,000	0,000	-	-
$F_{V,solo2}$	1,000	534,564	534,564	-3,650	-	-	534,564	-1951,159
$F_{Ed,H,tab,E}$	-	-	64,025	10,150	64,025	649,857	-	-
$F_{Ed,V,tab,E}$	-	-	1280,507	-2,170	-	-	1280,507	-2778,699
$F_{Ed,H,tab,SC,max}$	-	-	64,002	10,150	64,002	649,625	-	-
$F_{Ed,V,tab,SC,max}$	-	-	2597,194	-2,170	-	-	2597,194	-5635,911
(i) Somatório					883,259	6244,315	10279,607	8121,180
					br_{Hi} [m]=	7,070	**Br_{Vi} [m]=**	0,790
(ii) Somatório					883,236	6244,082	11596,294	5263,969
					br_{Hi} [m]=	7,070	**Br_{Vi} [m]=**	0,454
(iv) Somatório					1142,449	8575,324	11745,503	5898,104
					br_{Hi} [m]=	7,506	**Br_{Vi} [m]=**	0,502

P.2 Encontro E2

Designação	γ	Impulso / Força [kN]		Braço [m]	Horizontal		Vertical	
		E_k	E_d		$F_{ed,Hi}$ [kN]	$F_{ed,Hi}$ x br_{Hi} [kNm]	$F_{ed,Vi}$ [kN]	$F_{ed,Vi}$ x br_{Vi} [kNm]
$I_{a,H1,CP}$	1,000	295,668	295,668	8,493	295,668	2511,012	-	-
$I_{a,V1,CP}$	1,000	104,725	104,725	4,000	-	-	104,725	418,901
$I_{0,H1,CP}$	1,000	488,875	488,875	8,493	488,875	4151,849	-	-
$I_{0,V1,CP}$	1,000	173,158	173,158	4,000	-	-	173,158	692,634
$I_{a,H2,CP}$	1,000	225,872	225,872	4,350	225,872	982,543	-	-
$I_{a,V2,CP}$	1,000	172,580	172,580	4,000	-	-	172,580	690,320
$I_{0,H2,CP}$	1,000	245,849	245,849	4,350	245,849	1069,442	-	-
$I_{0,V2,CP}$	1,000	187,844	187,844	4,000	-	-	187,844	751,374
$I_{a,H3,CP}$	1,000	99,656	99,656	3,400	99,656	338,831	-	-
$I_{a,V3,CP}$	1,000	76,143	76,143	4,000	-	-	76,143	304,574
$I_{0,H3,CP}$	1,000	108,470	108,470	3,400	108,470	368,799	-	-
$I_{0,V3,CP}$	1,000	82,878	82,878	4,000	-	-	82,878	331,511
$I_{a,H4,SC}$	0,000	80,255	0,000	9,139	0,000	0,000	-	-
$I_{a,V4,SC}$	1,300	28,426	36,954	4,000	-	-	36,954	147,816
$I_{0,H4,SC}$	0,000	132,699	0,000	9,139	0,000	0,000	-	-
$I_{0,V4,SC}$	1,300	47,002	61,102	4,000	-	-	61,102	244,408
$I_{a,H5,SC}$	0,000	30,655	0,000	4,350	0,000	0,000	-	-
$I_{a,V5,SC}$	1,300	23,422	30,449	4,000	-	-	30,449	121,796
$I_{0,H5,SC}$	0,000	33,366	0,000	4,350	0,000	0,000	-	-
$I_{0,V5,SC}$	1,300	25,494	33,142	4,000	-	-	33,142	132,568
$I_{a,H6,E}$	0,000	275,279	0,000	9,139	0,000	0,000	-	-
$I_{a,V6,E}$	0,000	97,503	0,000	4,000	-	-	0,000	0,000
$I_{a,H7,E}$	0,000	253,119	0,000	9,785	0,000	0,000	-	-
$I_{a,V7,E}$	0,000	89,654	0,000	4,000	-	-	0,000	0,000
$I_{a,H8,E}$	0,000	69,217	0,000	5,300	0,000	0,000	-	-
$I_{a,V8,E}$	0,000	52,886	0,000	4,000	-	-	0,000	0,000
$F_{H,esp+viga\ est}$	1,000	0,000	0,000	8,466	0,000	0,000	-	-
$F_{V,esp+viga\ est}$	1,000	1095,649	1095,649	-0,354	-	-	1095,649	-387,553
$F_{H,gigante}$	1,000	0,000	0,000	3,885	0,000	0,000	-	-
$F_{V,gigante}$	1,000	892,823	892,823	-0,365	-	-	892,823	-326,130
$F_{H,sapata}$	1,000	0,000	0,000	0,500	0,000	0,000	-	-
$F_{V,sapata}$	1,000	900,000	900,000	0,000	-	-	900,000	0,000
$F_{H,solo1}$	1,000	0,000	0,000	6,846	0,000	0,000	-	-

Designação	γ	Impulso / Força [kN]		Braço [m]	Horizontal		Vertical	
		E_k	E_d		$F_{ed,Hi}$ [kN]	$F_{ed,Hi}$ x br_{Hi} [kNm]	$F_{ed,Vi}$ [kN]	$F_{ed,Vi}$ x br_{Vi} [kNm]
$F_{V,solo1}$	1,000	3274,247	3274,247	2,704	-	-	3274,247	8852,254
$F_{H,solo2}$	1,000	0,000	0,000	2,389	0,000	0,000	-	-
$F_{V,solo2}$	1,000	449,695	449,695	-3,400	-	-	449,695	-1528,961
$F_{Ed,H,tab,E}$	-	-	64,133	8,700	64,133	557,961	-	-
$F_{Ed,V,tab,E}$	-	-	1282,669	-1,920	-	-	1282,669	-2462,724
$F_{Ed,H,tab,SC,max}$	-	-	64,113	8,700	64,113	557,782	-	-
$F_{Ed,V,tab,SC,max}$	-	-	2624,105	-1,920	-	-	2624,105	-5038,282
(i) Somatório					685,330	4390,347	8315,934	5830,291
					br_{Hi} [m]=	6,406	**br_{Vi} [m]=**	0,701
(ii) Somatório					685,309	4390,168	9657,370	3254,734
					br_{Hi} [m]=	6,406	**br_{Vi} [m]=**	0,337
(iv) Somatório					907,306	6147,871	9774,642	3723,823
					br_{Hi} [m]=	6,776	**br_{Vi} [m]=**	0,381

Anexo Q – Esforços para o dimensionamento estrutural dos gigantes e das sapatas dos encontros

Encontro	φ'_d [º]	$\gamma_{h,d}$ [kN/m³]	δ'_d [º]	i [º]	ϕ_1 [º]	ϕ_2 [º]	θ_1[º]	θ_2[º]
E1	29,256	19,000	19,504	-0,859	0,000	17,560	8,637	9,593
E2	29,256	19,000	19,504	0,859	0,000	17,878	8,637	9,593

Encontro	$k_{0,d}$	$k_{a,d1}$	$k_{a,d2}$	$k_{s1,d1}$	$k_{s2,d1}$	$k_{s1,d2}$	$k_{s2,d2}$
E1	0,511	0,303	0,454	0,414	0,429	0,587	0,606
E2	0,511	0,309	0,470	0,425	0,442	0,612	0,633

Q.1. Encontro E1

Q.1.1 Esforços devido aos impulsos e às forças horizontais longitudinais

Designação	γ	Impulso / Força [kN]		Braço [m]	Momento [kNm]
		E_k	E_d		
$I_{a1,CP}$	1,350	295,039	398,302	9,167	3651,105
$I_{01,CP}$	1,350	497,982	672,275	9,167	6162,523
$I_{a2,CP}$	1,350	422,443	570,299	4,200	2395,254
$I_{02,CP}$	1,350	475,464	641,876	4,200	2695,879
$I_{a3,CP}$	1,350	255,689	345,181	2,967	1024,036
$I_{03,CP}$	1,350	287,781	388,504	2,967	1152,561
$I_{a4,SC}$	1,500	81,728	122,592	9,800	1201,404
$I_{04,SC}$	1,500	137,945	206,918	9,800	2027,792
$I_{a5,SC}$	1,500	58,510	87,765	4,200	368,614
$I_{05,SC}$	1,500	65,854	98,781	4,200	414,878
$I_{a6,E}$	1,500	358,619	537,929	9,800	5271,702
$I_{a7,E}$	1,500	296,251	444,376	10,433	4636,323
$I_{a8,E}$	1,500	171,201	256,802	5,433	1395,292
$F_{H,esp+viga\ est}$	1,350	173,684	234,473	10,392	2436,621
$F_{H,gigante}$	1,350	223,417	301,612	4,874	1470,110

Designação	γ	Impulso / Força [kN]		Braço [m]	Momento [kNm]
		E_k	E_d		
$F_{H,solo1}$	1,350	671,810	906,943	8,129	7372,521
$F_{H,solo2}$	1,350	85,530	115,466	2,901	334,979
$F_{Ed,HL,tab,E}$	1,500	64,025	96,038	8,900	854,738
(i) Somatório		**$F_{Ed,HL}$ [kN]=**	4417,778	**$M_{Ed,HL}$ [kNm]=**	32412,699
(iv) Somatório		**$F_{Ed,HL}$ [kN]=**	3261,149	**$M_{Ed,HL}$ [kNm]=**	21625,194

Q.1.2 Esforços devido às forças verticais

Designação	γ	Impulso / Força [kN]		Braço [m]	Momento [kNm]
		E_k	E_d		
$F_{Ed,V,tab,CP}$	1,350	1280,049	1728,066	2,170	3749,904
$F_{Ed,V,tab,SC}$	1,500	685,863	1028,794	2,170	2232,482
$F_{Ed,V,tab,E}$	1,500	0,305	0,458	2,170	0,993
$F_{V,esp+viga\ est}$	1,350	1085,523	1465,455	0,611	895,613
$F_{V,gigante}$	1,350	1396,353	1885,077	0,473	892,452
$F_{V,solo1}$	1,350	4198,810	5668,393	-2,780	-15760,230
$F_{V,solo2}$	1,350	534,564	721,662	3,650	2634,065
			$F_{Ed,V}$ [kN]	**br_V [m]**	**$M_{Ed,V,y}$ [kNm]**
			12497,905	-0,428	-5354,721

Q.2. Encontro E2

Q.1.3 Esforços devido aos impulsos e às forças horizontais longitudinais

Designação	γ	Impulso / Força [kN]		Braço [m]	Momento [kNm]
		E_k	E_d		
$I_{a1,CP}$	1,350	313,667	423,451	7,493	3172,775
$I_{01,CP}$	1,350	518,635	700,157	7,493	5246,044
$I_{a2,CP}$	1,350	284,257	383,747	3,350	1285,551
$I_{02,CP}$	1,350	309,398	417,687	3,350	1399,250
$I_{a3,CP}$	1,350	125,416	169,312	2,400	406,348

Designação	γ	Impulso / Força [kN]		Braço [m]	Momento [kNm]
		E_k	E_d		
$I_{03,CP}$	1,350	136,508	184,286	2,400	442,287
$I_{a4,SC}$	1,500	85,141	127,711	8,139	1039,441
$I_{04,SC}$	1,500	140,777	211,165	8,139	1718,671
$I_{a5,SC}$	1,500	38,579	57,868	3,350	193,859
$I_{05,SC}$	1,500	41,991	62,986	3,350	211,004
$I_{a6,E}$	1,500	292,037	438,055	8,139	3565,329
$I_{a7,E}$	1,500	330,952	496,428	8,785	4361,287
$I_{a8,E}$	1,500	87,109	130,663	4,300	561,852
$F_{H,esp+viga\ est}$	1,350	175,304	236,660	8,466	2003,615
$F_{H,gigante}$	1,350	142,852	192,850	3,885	749,183
$F_{H,solo1}$	1,350	523,880	707,237	6,846	4841,761
$F_{H,solo2}$	1,350	71,951	97,134	2,389	232,051
$F_{Ed,HL,tab,E}$	1,500	64,133	96,200	7,700	740,741
(i) Somatório		**$F_{Ed,HL}$ [kN]=**	3557,316	**$M_{Ed,HL}$ [kNm]=**	23153,793
(iv) Somatório		**$F_{Ed,HL}$ [kN]=**	2536,011	**$M_{Ed,HL}$ [kNm]=**	14914,191

Q.1.4 Esforços devido às forças verticais

Designação	γ	Impulso / Força [kN]		Braço [m]	Momento [kNm]
		E_k	E_d		
$F_{Ed,V,tab,CP}$	1,350	1282,257	1731,046	1,920	3323,609
$F_{Ed,V,tab,SC}$	1,500	704,857	1057,286	1,920	2029,988
$F_{Ed,V,tab,E}$	1,500	0,275	0,413	1,920	0,792
$F_{V,esp+viga\ est}$	1,350	1095,649	1479,126	0,354	523,196
$F_{V,gigante}$	1,350	892,823	1205,311	0,365	440,276
$F_{V,solo1}$	1,350	3274,247	4420,233	-2,704	-11950,543
$F_{V,solo2}$	1,350	449,695	607,088	3,400	2064,098
			$F_{Ed,V}$ [kN]	**br_V [m]**	**$M_{Ed,V,y}$ [kNm]**
			10500,503	-0,340	-3568,583

Anexo R – Deslocamento longitudinal devido aos efeitos diferidos de fluência e retração do betão

O deslocamento longitudinal devido aos efeitos diferidos de fluência e retração do betão obtêm-se a partir da expressão:

$$\delta_{C+S} = \alpha \cdot \Delta T \cdot L \tag{R.1}$$

Expressões para determinar a expressão (R.1):

$$\Delta T = \frac{\varepsilon_{cc}(\mathrm{t}) + \varepsilon_{cs}(\mathrm{t}, \mathrm{t}_0)}{\alpha} \tag{R.2}$$

$$\varepsilon_{cc} = \varphi(t, t_0) \cdot \frac{\sigma_c}{E_c} \tag{R.3}$$

$$E_c = 1{,}05 \cdot E_{cm} \tag{R.4}$$

$$L = \left| x_{CR} - x_i \right| \tag{R.5}$$

$$x_{CR} = \frac{\sum_{j=1}^{n} (\mathrm{x_j} \cdot \mathrm{k_j})}{\sum_{j=1}^{n} (\mathrm{k_j})} \tag{R.6}$$

R.1. Centro de rigidez do viaduto

Aparelho de apoio	**x [m]**	**L [m]**	**E_{cm} [GPa]**	**I_c [m^4]**	**K [kN/m]**	**x_j*K_j [kN]**	**x_{CR} [m]**
P1	32,800	26,000	34,000	1,629	9451,375	310005,099	189,470
P2	73,800	35,000	34,000	1,629	15497,830	1143739,862	
P3	114,800	43,000	34,000	1,629	8357,371	959426,147	
P4	155,800	48,000	34,000	1,629	6008,296	936092,509	
P5	196,800	37,500	34,000	1,629	12600,310	2479740,982	
P6	237,800	28,000	34,000	1,629	30269,199	7198015,622	
P7	278,800	18,000	34,000	1,629	28483,773	7941276,022	
Somatório					110668,154	20968296,243	

R.2. Variação de temperatura equivalente

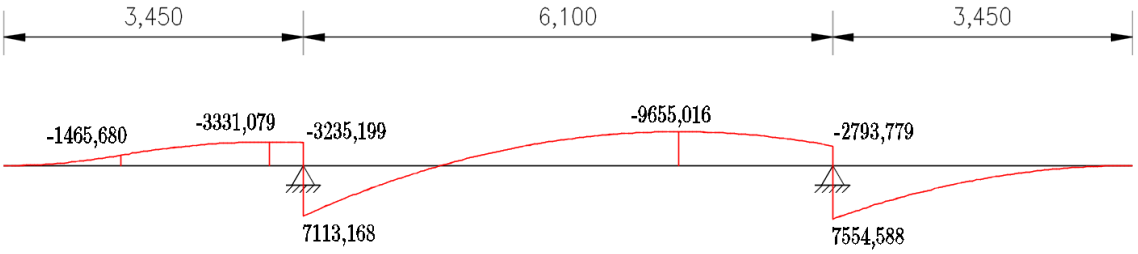
Aparelho de apoio	ε_{cs} [t]	$\phi(t,t_0)$	σ_c [MPa]	ε_{cc} [t]	α [$^0C^{-1}$]	ΔT_i [^0C]	ΔT [^0C]
E1	0,000	2,392	-1,499	-1,005E-04	1,000E-05	-40,797	-42,215
P1	0,000	2,392	-1,679	-1,125E-04	1,000E-05	-42,000	
P7	0,000	2,392	-1,948	-1,305E-04	1,000E-05	-43,799	
E2	0,000	2,392	-1,718	-1,151E-04	1,000E-05	-42,263	

R.3. Deslocamentos devido aos efeitos diferidos de fluência e retração do betão

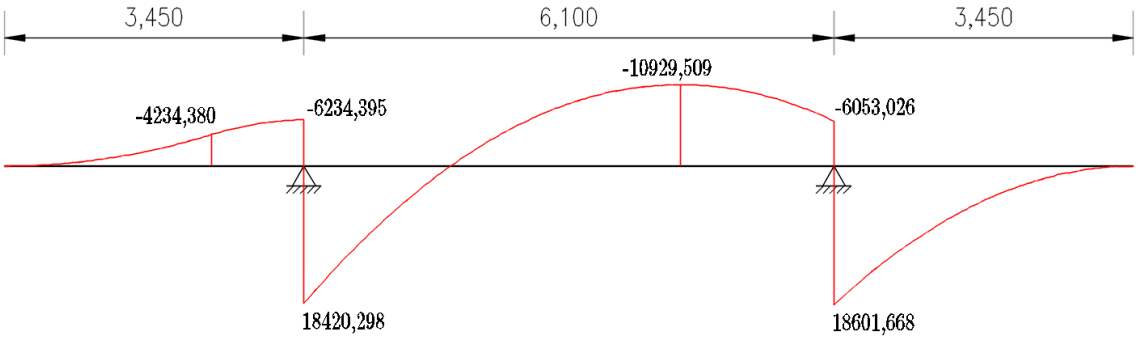
Aparelho de apoio	α [$^0C^{-1}$]	ΔT_i [^0C]	L [m]	δ_{c+s} [mm]
E1	1,000E-05	-40,797	189,470	-77,298
P1	1,000E-05	-42,000	156,670	-65,802
P7	1,000E-05	-43,799	89,330	-39,126
E2	1,000E-05	-42,263	122,130	-51,616

Anexo S – Diagramas de momentos fletores para a verificação estrutural das sapatas

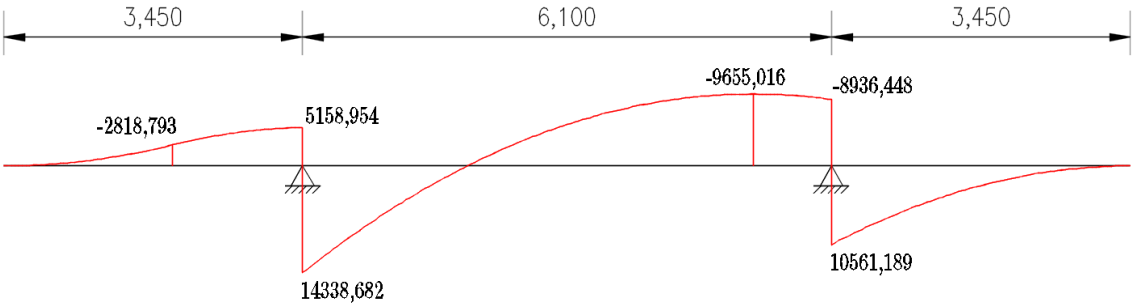
S.1 Diagrama de momento fletor da sapata S1



S.2 Diagrama de momento fletor da sapata S6



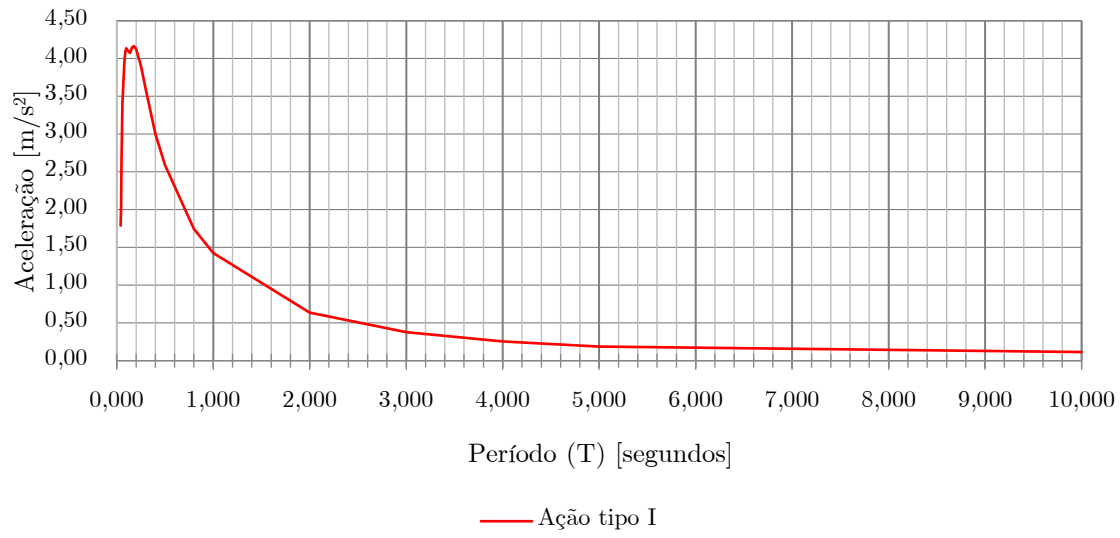
S.3 Diagrama de momento fletor da sapata S7



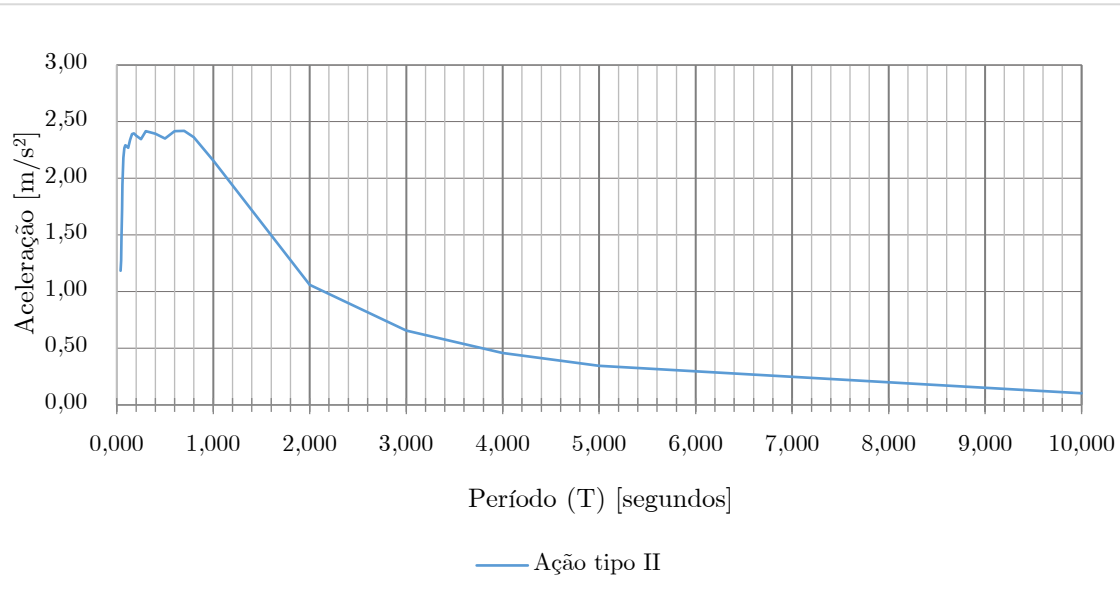
Anexo T – Espectros de resposta do RSA

Zona sísmica	Coeficiente de amortecimento (ξ) [%]
A	5

T.1 Ação tipo 1 – Terreno tipo II



T.2 Ação tipo 2 – Terreno tipo II



T.3 Valores dos espectros de resposta do RSA

Ação Tipo I

T [seg.]	Aceleração [m/s²]
0,040	1,791
0,045	2,056
0,050	2,609
0,055	3,146
0,060	3,404
0,070	3,683
0,080	3,948
0,090	4,091
0,100	4,138
0,120	4,101
0,140	4,075
0,160	4,146
0,180	4,165
0,200	4,124
0,250	3,9
0,300	3,589
0,400	3,002
0,500	2,59
0,800	1,746
1,000	1,426
2,000	0,635
3,000	0,377
4,000	0,255
5,000	0,186
10,000	0,115

Ação Tipo II

T [seg.]	Aceleração [m/s²]
0,040	1,185
0,045	1,275
0,050	1,471
0,055	1,729
0,060	1,944
0,070	2,182
0,080	2,267
0,090	2,291
0,100	2,287
0,120	2,27
0,140	2,339
0,160	2,391
0,180	2,397
0,200	2,377
0,250	2,346
0,300	2,417
0,400	2,394
0,500	2,351
0,600	2,416
0,700	2,419
0,800	2,363
1,000	2,156
2,000	1,06
3,000	0,655
4,000	0,459
5,000	0,345
10,000	0,103

Anexo U – Coeficiente de fluência

U.1 Coeficiente de fluência da secção S1

Dados para o cálculo do coeficiente de fluência da secção S1

Perímetro	37,682	m
Área	9,310	m^2
HR	70,000	%
T	20,000	ºC
Betão	C35/45	Cimento da classe CEM 42,5 N
E_{cm}	34,000	GPa
f_{cm}	43,000	MPa
f_{ctm}	3,200	MPa
t_0	3	dias
t_∞	20000	dias

Cálculo do coeficiente de fluência da secção S1 segundo o EC2

h_0	417,200	mm
β_H	878,479	
$\beta_{(fcm)}$	2,562	
$\beta_{(t0)}$	0,743	
$\beta_{c(t,t0)}$	0,987	
α_1	0,866	
α_2	0,960	
α_3	0,902	
ϕ_{RH}	1,193	
ϕ_0	2,262	
$\phi_{(t,t0)}$	2,431	

U.2 Coeficiente de fluência da secção S2

Dados para o cálculo do coeficiente de fluência da secção S2

Perímetro	37,639	m
Área	7,852	m^2
HR	70	%
T	20	ºC
Betão	C35/45	Cimento da classe CEM 42,5 N
$\mathbf{E_{cm}}$	34,000	GPa
$\mathbf{f_{cm}}$	43,000	MPa
$\mathbf{f_{ctm}}$	3,200	MPa
$\mathbf{t_0}$	3	dias
$\mathbf{t_\infty}$	20000	dias

Cálculo do coeficiente de fluência da secção S2 segundo o EC2

$\mathbf{h_0}$	378,981	mm
$\mathbf{\beta_H}$	818,665	
$\mathbf{\beta_{(fcm)}}$	2,562	
$\mathbf{\beta_{(t0)}}$	0,743	
$\mathbf{\beta_{c(t,t0)}}$	0,988	
$\mathbf{\alpha_1}$	0,866	
$\mathbf{\alpha_2}$	0,960	
$\mathbf{\alpha_3}$	0,902	
$\mathbf{\phi_{RH}}$	1,304	
$\mathbf{\phi_0}$	2,483	
$\mathbf{\phi_{(t,t0)}}$	2,453	

U.3 Coeficiente de fluência dos pilares

Dados para o cálculo do coeficiente de fluência dos pilares

Perímetro	7,540	m
Área	4,524	m^2
HR	70	%
T	20	ºC
Betão	C35/45	Cimento da classe CEM 42,5 N
$\mathbf{E_{cm}}$	34,000	GPa
$\mathbf{f_{cm}}$	43,000	MPa
$\mathbf{f_{ctm}}$	3,200	MPa
$\mathbf{t_0}$	3	dias
$\mathbf{t_\infty}$	20000	dias

Cálculo do coeficiente de fluência dos pilares segundo o EC2

$\mathbf{h_0}$	1200,000	mm
$\boldsymbol{\beta_H}$	2103,585	
$\boldsymbol{\beta_{(fcm)}}$	2,562	
$\boldsymbol{\beta_{(t0)}}$	0,743	
$\boldsymbol{\beta_{c(t,t0)}}$	0,970	
$\boldsymbol{\alpha_1}$	0,866	
$\boldsymbol{\alpha_2}$	0,960	
$\boldsymbol{\alpha_3}$	0,902	
$\boldsymbol{\phi_{RH}}$	1,194	
$\boldsymbol{\phi_0}$	2,274	
$\boldsymbol{\phi_{(t,t0)}}$	2,206	