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1 Předpoklady statického výpočtu :

Statický výpočet je zpracován na základě podkladů objednavatele.

Konstrukce byla navržena a staticky posouzena dle platných ČSN, především :

ČSN EN 1991-1-1 Eurokód 1: Zatížení konstrukcí – Část 1-1 :
Obecná zatížení – Objemové tíhy, vlastní tíha a užitné zatížení pozemních staveb

ČSN EN 1991-1-3 Eurokód 1: Zatížení konstrukcí – Část 1-3 :
Obecná zatížení – Zatížení sněhem

ČSN EN 1991-1-4 Eurokód 1: Zatížení konstrukcí – Část 1-4 :
Obecná zatížení – Zatížení větrem

ČSN EN 1993-1-1 Eurokód 3: Navrhování ocelových konstrukcí – Část 1-1 : Obecná
zatížení pravidla a pravidla pro pozemní stavby

ČSN EN 1993-1-2 Eurokód 3: Navrhování ocelových konstrukcí – Část 1-2 : Obecná
pravidla – Navrhování konstrukcí na účinky požáru

Literatura

Prokazování požární odolnosti statickým výpočtem : české vysoké učení v Praze, Praha, únor 2010

Materiál

Konstrukce je posouzena na jakosti S235 a S355 dle ČSN EN 10025+A1, jakostního stupně JR G2

Třída provedení OK dle ČSN EN 1090-2 EXC2, EXC1.

Statický výpočet

Statický výpočet byl proveden podle teorie 1. řádu. Ve výpočtu bylo uvažováno se zatížením od vlastní tíhy ocelové konstrukce, opláštění, technologií, zatížením klimatickým sněhem a větrem. Konstrukce byla posouzena dle mezních stavů únosnosti a použitelnosti. Výpočet konstrukce a její posouzení bylo provedeno programem IDA PRIMA. Schéma konstrukce a zatížení je patrné z grafického výpisu programu IDA.

2 NÁVRH KONSTRUKCÍ

2.1 PLOŠINA +12,000 m

ZATÍŽENÍ

1. Zatěžovací stav

Vlastní tíha $\gamma = 1,35$

Generována počítačem

2. Zatěžovací stav

Zatížení stálé $\gamma = 1,35$

Podlaha z podlahových roštů

$g_{z1} = 0,37 \times 0,5 \times 0,8 + 0,3 = 0,448 \text{ kN/m}$

$g_{z2} = 0,37 \times 0,8 + 0,3 = 0,296 \text{ kN/m}$

$g_{z3} = 0,37 \times 0,25 = 0,093 \text{ kN/m}$



$$\begin{aligned}g_{z4} &= 0,37 \times 0,5 \times (0,8 + 0,9) = 0,312 \text{ kN/m} \\g_{z5} &= 0,37 \times 0,5 \times 0,55 + 0,3 = 0,402 \text{ kN/m} \\g_{z6} &= 0,37 \times 0,5 \times 0,9 + 0,3 = 0,467 \text{ kN/m} \\g_{z7} &= 0,37 \times 0,9 = 0,333 \text{ kN/m} \\g_{z8} &= 0,37 \times 0,5 \times 0,9 = 0,167 \text{ kN/m} \\g_{z9} &= 0,37 \times 0,5 \times (0,82 + 0,9) = 0,318 \text{ kN/m} \\g_{z10} &= 0,37 \times 0,82 = 0,303 \text{ kN/m} \\g_{z11} &= 0,37 \times 0,5 \times 0,8 + 0,3 = 0,452 \text{ kN/m} \\g_{z12} &= 0,37 \times 0,5 \times (0,88 + 0,9) = 0,329 \text{ kN/m} \\g_{z13} &= 0,37 \times 0,88 = 0,326 \text{ kN/m} \\g_{z14} &= 0,37 \times 0,5 \times 0,88 + 0,3 = 0,463 \text{ kN/m} \\g_{z15} &= 0,37 \times 0,5 \times 1,2 + 0,3 = 0,522 \text{ kN/m}\end{aligned}$$

3. Zatěžovací stav

Zatížení stálé - rezerva $\gamma = 1,35$

$$g = 5,0 \text{ kN/m}^2$$

$$\begin{aligned}g_{z1} &= 5,0 \times 0,5 \times 0,8 = 2,2 \text{ kN/m} \\g_{z2} &= 5,0 \times 0,8 = 4,0 \text{ kN/m} \\g_{z3} &= 5,0 \times 0,25 = 1,25 \text{ kN/m} \\g_{z4} &= 5,0 \times 0,5 \times (0,8 + 0,9) = 4,25 \text{ kN/m} \\g_{z5} &= 5,0 \times 0,5 \times 0,55 = 1,375 \text{ kN/m} \\g_{z6} &= 5,0 \times 0,5 \times 0,9 = 2,25 \text{ kN/m} \\g_{z7} &= 5,0 \times 0,9 = 4,5 \text{ kN/m} \\g_{z8} &= 5,0 \times 0,5 \times (0,82 + 0,9) = 4,3 \text{ kN/m} \\g_{z9} &= 5,0 \times 0,82 = 4,1 \text{ kN/m} \\g_{z10} &= 5,0 \times 0,5 \times 0,82 = 2,05 \text{ kN/m} \\g_{z11} &= 5,0 \times 0,5 \times (0,88 + 0,9) = 4,45 \text{ kN/m} \\g_{z12} &= 5,0 \times 0,88 = 4,4 \text{ kN/m} \\g_{z13} &= 5,0 \times 0,5 \times 0,88 = 2,2 \text{ kN/m} \\g_{z14} &= 5,0 \times 0,5 \times 1,2 = 3,0 \text{ kN/m}\end{aligned}$$

4. Zatěžovací stav

Zatížení užitné $\gamma = 1,5$

$$p = 15,0 \text{ kN/m}^2$$

$$\begin{aligned}g_{z1} &= 15,0 \times 0,5 \times 0,8 = 6,0 \text{ kN/m} \\g_{z2} &= 15,0 \times 0,8 = 12,0 \text{ kN/m} \\g_{z3} &= 15,0 \times 0,25 = 3,75 \text{ kN/m} \\g_{z4} &= 15,0 \times 0,5 \times (0,8 + 0,9) = 12,75 \text{ kN/m} \\g_{z5} &= 15,0 \times 0,5 \times 0,55 = 4,125 \text{ kN/m} \\g_{z6} &= 15,0 \times 0,5 \times 0,9 = 6,75 \text{ kN/m} \\g_{z7} &= 15,0 \times 0,9 = 13,5 \text{ kN/m} \\g_{z8} &= 15,0 \times 0,5 \times (0,82 + 0,9) = 12,9 \text{ kN/m} \\g_{z9} &= 15,0 \times 0,82 = 12,3 \text{ kN/m} \\g_{z10} &= 15,0 \times 0,5 \times 0,82 = 6,15 \text{ kN/m} \\g_{z11} &= 15,0 \times 0,5 \times (0,88 + 0,9) = 13,35 \text{ kN/m} \\g_{z12} &= 15,0 \times 0,88 = 13,2 \text{ kN/m} \\g_{z13} &= 15,0 \times 0,5 \times 0,88 = 6,6 \text{ kN/m} \\g_{z14} &= 15,0 \times 0,5 \times 1,2 = 9,0 \text{ kN/m} \\g_{z15} &= 3,0 \times 0,5 \times 0,8 = 1,2 \text{ kN/m}\end{aligned}$$

5. Zatěžovací stav

Zatížení technologií $\gamma = 1,5$

$$P_{z1} = 0,5 \times 80,0 = 40,0 \text{ kN}$$

TVAR KONSTRUKCE

U Z L Y				
uzel	X[m]	Y[m]	Z[m]	typ
1	0.0000	0.0000	0.0000	
2	0.0000	2.9000	0.0000	
3	0.0000	3.9500	0.0000	



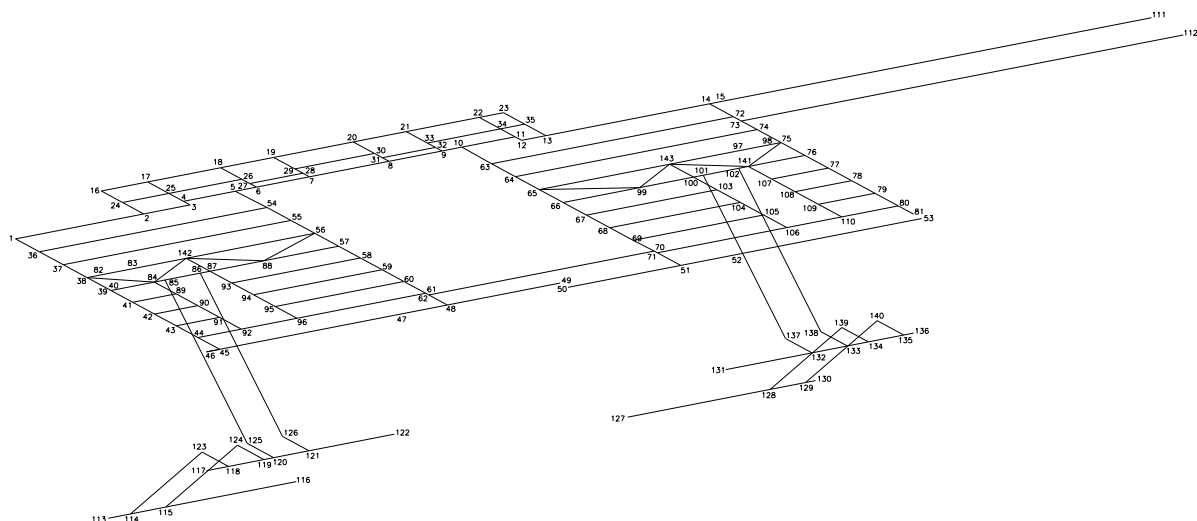
4	-0.2500	3.9500	0.0000
5	-0.2500	5.1200	0.0000
6	-0.2500	5.6000	0.0000
7	-0.2500	6.8000	0.0000
8	-0.2500	8.6000	0.0000
9	-0.2500	9.8000	0.0000
10	-0.2500	10.2500	0.0000
11	-0.2500	11.4500	0.0000
12	0.0000	11.4500	0.0000
13	0.0000	12.0000	0.0000
14	0.0000	15.7000	0.0000
15	0.0000	16.0000	0.0000
16	-1.6000	2.9000	0.0000
17	-1.6000	3.9500	0.0000
18	-1.6000	5.6000	0.0000
19	-1.6000	6.8000	0.0000
20	-1.6000	8.6000	0.0000
21	-1.6000	9.8000	0.0000
22	-1.6000	11.4500	0.0000
23	-1.6000	12.0000	0.0000
24	-0.8000	2.9000	0.0000
25	-0.8000	3.9500	0.0000
26	-0.8000	5.6000	0.0000
27	-0.5000	5.6000	0.0000
28	-0.5000	6.8000	0.0000
29	-0.8000	6.8000	0.0000
30	-0.8000	8.6000	0.0000
31	-0.5000	8.6000	0.0000
32	-0.5000	9.8000	0.0000
33	-0.8000	9.8000	0.0000
34	-0.8000	11.4500	0.0000
35	-0.8000	12.0000	0.0000
36	0.9000	0.0000	0.0000
37	1.8000	0.0000	0.0000
38	2.7000	0.0000	0.0000
39	3.5000	0.0000	0.0000
40	3.6000	0.0000	0.0000
41	4.4200	0.0000	0.0000
42	5.2400	0.0000	0.0000
43	6.0600	0.0000	0.0000
44	6.8800	0.0000	0.0000
45	7.7000	0.0000	0.0000
46	7.7000	-0.3000	0.0000
47	7.7000	3.9500	0.0000
48	7.7000	5.1500	0.0000
49	7.7000	7.7000	0.0000
50	8.0000	7.7000	0.0000
51	8.0000	10.2500	0.0000
52	8.0000	11.4500	0.0000
53	8.0000	15.7000	0.0000
54	0.9000	5.1500	0.0000
55	1.8000	5.1500	0.0000
56	2.7000	5.1500	0.0000
57	3.6000	5.1500	0.0000
58	4.4200	5.1500	0.0000
59	5.2400	5.1500	0.0000
60	6.0600	5.1500	0.0000
61	6.8800	5.1500	0.0000
62	7.0000	5.1500	0.0000
63	0.9000	10.2300	0.0000



64	1.8000	10.2300	0.0000
65	2.7000	10.2300	0.0000
66	3.6000	10.2300	0.0000
67	4.4800	10.2300	0.0000
68	5.3600	10.2300	0.0000
69	6.2400	10.2300	0.0000
70	7.0000	10.2500	0.0000
71	7.1200	10.2500	0.0000
72	0.9000	15.7000	0.0000
73	1.2000	15.7000	0.0000
74	1.8000	15.7000	0.0000
75	2.7000	15.7000	0.0000
76	3.6000	15.7000	0.0000
77	4.4800	15.7000	0.0000
78	5.3600	15.7000	0.0000
79	6.2400	15.7000	0.0000
80	7.1200	15.7000	0.0000
81	7.7000	15.7000	0.0000
82	2.7000	0.2000	0.0000
83	2.7000	1.0000	0.0000
84	3.6000	0.9800	0.0000
85	3.6000	1.2200	0.0000
86	3.6000	2.0200	0.0000
87	3.6000	2.2400	0.0000
88	3.6000	3.4600	0.0000
89	4.4200	0.9800	0.0000
90	5.2400	0.9800	0.0000
91	6.0600	0.9800	0.0000
92	6.8800	0.9800	0.0000
93	4.4200	2.2400	0.0000
94	5.2400	2.2400	0.0000
95	6.0600	2.2400	0.0000
96	6.8800	2.2400	0.0000
97	2.7000	14.6750	0.0000
98	2.7000	15.4750	0.0000
99	3.6000	11.9600	0.0000
100	3.6000	13.1800	0.0000
101	3.6000	13.4000	0.0000
102	3.6000	14.2000	0.0000
103	4.4800	13.1800	0.0000
104	5.3600	13.1800	0.0000
105	6.2400	13.1800	0.0000
106	7.1200	13.1800	0.0000
107	4.4800	14.4200	0.0000
108	5.3600	14.4200	0.0000
109	6.2400	14.4200	0.0000
110	7.1200	14.4200	0.0000
111	0.0000	25.7000	0.0000
112	1.2000	25.7000	0.0000
113	4.0000	-0.3000	-4.5000
114	4.0000	0.2000	-4.5000
115	4.0000	1.0000	-4.5000
116	4.0000	3.9500	-4.5000
117	7.7000	-0.3000	-2.4375
118	7.7000	0.2000	-2.4375
119	7.7000	1.0000	-2.4375
120	7.7000	1.2200	-2.4375
121	7.7000	2.0200	-2.4375
122	7.7000	3.9500	-2.4375
123	6.7000	0.2000	-2.4375



124	6.7000	1.0000	-2.4375
125	6.7000	1.2200	-2.4375
126	6.7000	2.0200	-2.4375
127	4.0000	11.4500	-4.5000
128	4.0000	14.6750	-4.5000
129	4.0000	15.4750	-4.5000
130	4.0000	15.7000	-4.5000
131	7.7000	11.4500	-2.4375
132	7.7000	13.4000	-2.4375
133	7.7000	14.2000	-2.4375
134	7.7000	14.6750	-2.4375
135	7.7000	15.4750	-2.4375
136	7.7000	15.7000	-2.4375
137	6.7000	13.4000	-2.4375
138	6.7000	14.2000	-2.4375
139	6.7000	14.6750	-2.4375
140	6.7000	15.4750	-2.4375
141	3.6000	14.4200	0.0000
142	2.7000	2.2400	0.0000
143	2.7000	13.1800	0.000



P R U T Y

prut	zac	konec	delka [m]	prurez	typ
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1	16	17	1.0500	1	
2	17	18	1.6500	1	
3	18	19	1.2000	1	
4	19	20	1.8000	1	
5	20	21	1.2000	1	
6	21	22	1.6500	1	
7	22	23	0.5500	1	
8	24	25	1.0500	2	
9	25	26	1.6500	3	
10	27	28	1.2000	4	
11	29	30	1.8000	3	
12	31	32	1.2000	4	
13	33	34	1.6500	3	
14	34	35	0.5500	2	
15	4	5	1.1700	5	
16	5	6	0.4800	5	
17	6	7	1.2000	5	



18	7	8	1.8000	5
19	8	9	1.2000	5
20	9	10	0.4500	5
21	10	11	1.2000	5
22	16	24	0.8000	6
23	24	2	0.8000	6
24	17	25	0.8000	7
25	25	4	0.5500	7
26	4	3	0.2500	7
27	18	26	0.8000	6
28	26	27	0.3000	6
29	27	6	0.2500	6
30	19	29	0.8000	6
31	29	28	0.3000	6
32	28	7	0.2500	6
33	20	30	0.8000	6
34	30	31	0.3000	6
35	31	8	0.2500	6
36	21	33	0.8000	6
37	33	32	0.3000	6
38	32	9	0.2500	6
39	22	34	0.8000	7
40	34	11	0.5500	7
41	11	12	0.2500	7
42	23	35	0.8000	6
43	35	13	0.8000	6
44	1	2	2.9000	8
45	2	3	1.0500	8
46	36	54	5.1500	9
47	37	55	5.1500	9
48	38	82	0.2000	10
49	82	83	0.8000	10
50	84	85	0.2400	11
51	85	86	0.8000	11
52	86	87	0.2200	11
53	87	88	1.2200	11
54	88	57	1.6900	11
55	41	89	0.9800	12
56	42	90	0.9800	12
57	43	91	0.9800	12
58	93	58	2.9100	13
59	94	59	2.9100	13
60	95	60	2.9100	13
61	44	92	0.9800	14
62	92	96	1.2600	14
63	96	61	2.9100	14
64	62	70	5.1000	15
65	45	46	0.3000	16
66	46	47	4.2500	16
67	47	48	1.2000	16
68	48	49	2.5500	16
69	12	13	0.5500	28
70	13	14	3.7000	28
71	14	15	0.3000	28
72	63	72	5.4700	9
73	64	74	5.4700	9
74	97	98	0.8000	10
75	98	75	0.2250	10
76	66	99	1.7300	11
77	99	100	1.2200	11



78	100	101	0.2200	11
79	101	102	0.8000	11
80	67	103	2.9500	13
81	68	104	2.9500	13
82	69	105	2.9500	13
83	107	77	1.2800	12
84	108	78	1.2800	12
85	109	79	1.2800	12
86	71	106	2.9300	14
87	106	110	1.2400	14
88	110	80	1.2800	14
89	50	51	2.5500	17
90	51	52	1.2000	17
91	52	53	4.2500	8
92	1	36	0.9000	18
93	36	37	0.9000	18
94	37	38	0.9000	18
95	38	39	0.8000	18
96	39	40	0.1000	19
97	40	41	0.8200	19
98	41	42	0.8200	19
99	42	43	0.8200	19
100	43	44	0.8200	19
101	44	45	0.8200	19
102	84	89	0.8200	20
103	89	90	0.8200	20
104	90	91	0.8200	20
105	91	92	0.8200	20
106	87	93	0.8200	20
107	93	94	0.8200	20
108	94	95	0.8200	20
109	95	96	0.8200	20
110	5	54	1.1504	21
111	54	55	0.9000	21
112	55	56	0.9000	21
113	56	57	0.9000	21
114	57	58	0.8200	21
115	58	59	0.8200	21
116	59	60	0.8200	21
117	60	61	0.8200	21
118	61	62	0.1200	21
119	62	48	0.7000	21
120	10	63	1.1502	21
121	63	64	0.9000	21
122	64	65	0.9000	21
123	65	66	0.9000	21
124	66	67	0.8800	21
125	67	68	0.8800	21
126	68	69	0.8800	21
127	69	70	0.7603	21
128	70	71	0.1200	21
129	71	51	0.8800	21
130	100	103	0.8800	20
131	103	104	0.8800	20
132	104	105	0.8800	20
133	105	106	0.8800	20
134	141	107	0.8800	20
135	107	108	0.8800	20
136	108	109	0.8800	20
137	109	110	0.8800	20



138	14	72	0.9000	22
139	72	73	0.3000	22
140	73	74	0.6000	22
141	74	75	0.9000	22
142	75	76	0.9000	22
143	76	77	0.8800	22
144	77	78	0.8800	22
145	78	79	0.8800	22
146	79	80	0.8800	22
147	80	81	0.5800	22
148	113	114	0.5000	23
149	114	115	0.8000	23
150	115	116	2.9500	23
151	117	118	0.5000	25
152	118	119	0.8000	25
153	119	120	0.2200	25
154	120	121	0.8000	25
155	121	122	1.9300	25
156	114	123	3.3976	26
157	123	118	1.0000	26
158	115	124	3.3976	26
159	124	119	1.0000	26
160	85	125	3.9435	26
161	125	120	1.0000	26
162	86	126	3.9435	26
163	126	121	1.0000	26
164	127	128	3.2250	24
165	128	129	0.8000	24
166	129	130	0.2250	24
167	131	132	1.9500	25
168	132	133	0.8000	25
169	133	134	0.4750	25
170	134	135	0.8000	25
171	135	136	0.2250	25
172	128	139	3.3976	26
173	139	134	1.0000	26
174	129	140	3.3976	26
175	140	135	1.0000	26
176	101	137	3.9435	26
177	137	132	1.0000	26
178	102	138	3.9435	26
179	138	133	1.0000	26
180	40	84	0.9800	11
181	15	111	9.7000	27
182	73	112	10.0000	27
183	102	141	0.2200	11
184	141	76	1.2800	11
185	83	142	1.2400	10
186	142	56	2.9100	10
187	65	143	2.9500	10
188	143	97	1.4950	10
189	38	84	1.3306	29
190	84	142	1.5484	29
191	142	88	1.5160	29
192	88	56	1.9147	29
193	87	142	0.9000	29
194	65	99	1.9501	29
195	99	143	1.5160	29
196	143	141	1.5322	29
197	141	75	1.5647	29



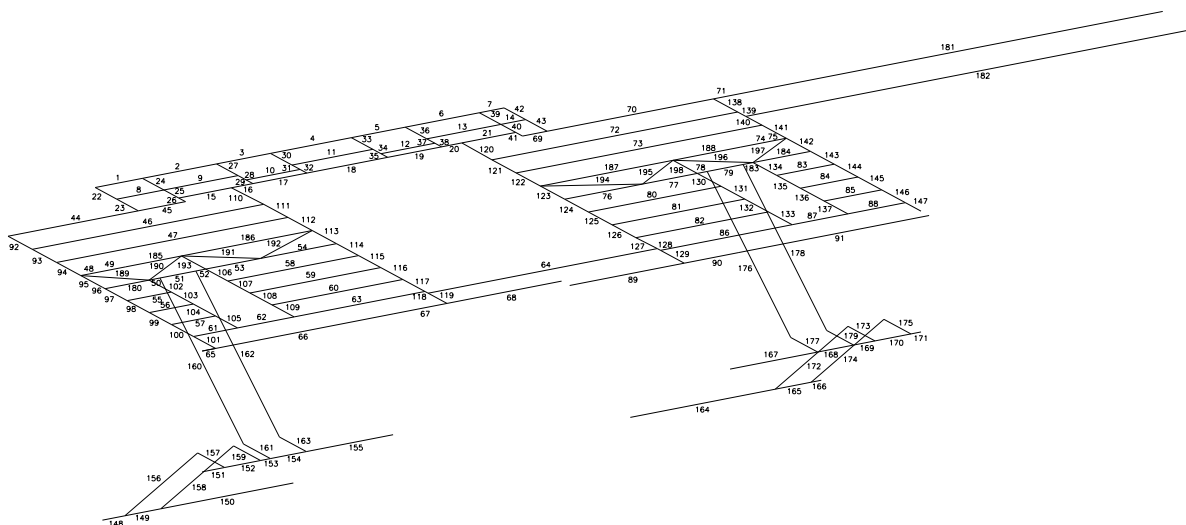
198

100

143

0.9000

29



P R U Ř E Z Y - charakteristiky

PRUREZ c. 1 (IPE)

plocha A[m2] = 5.39923E-03

mom.setr. Iy[m4] = 8.38842E-05

mom.setr. Iw[m8] = 1.25934E-07

Prvek 1 IPE 300

poloha težiště Y = 75.00

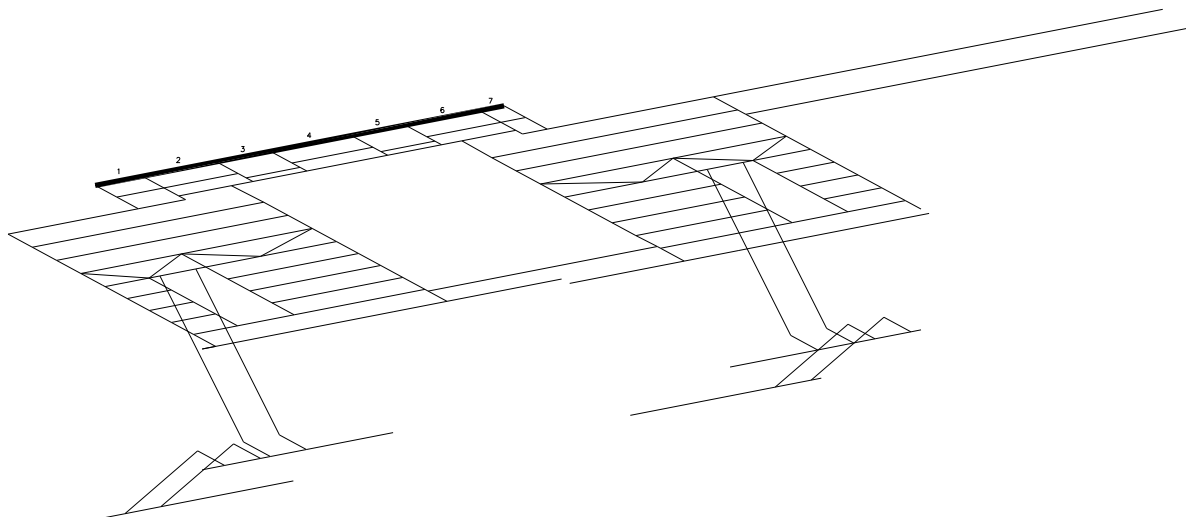
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.01000E-07

mom.setr. Iz[m4] = 6.03963E-06

ocel 37

Z = -150.00



PRUREZ c. 2 (IPE)

plocha A[m2] = 1.03625E-03

mom.setr. Iy[m4] = 1.71698E-06

mom.setr. Iw[m8] = 3.51378E-10

Prvek 1 IPE 100

poloha težiště Y = 27.50

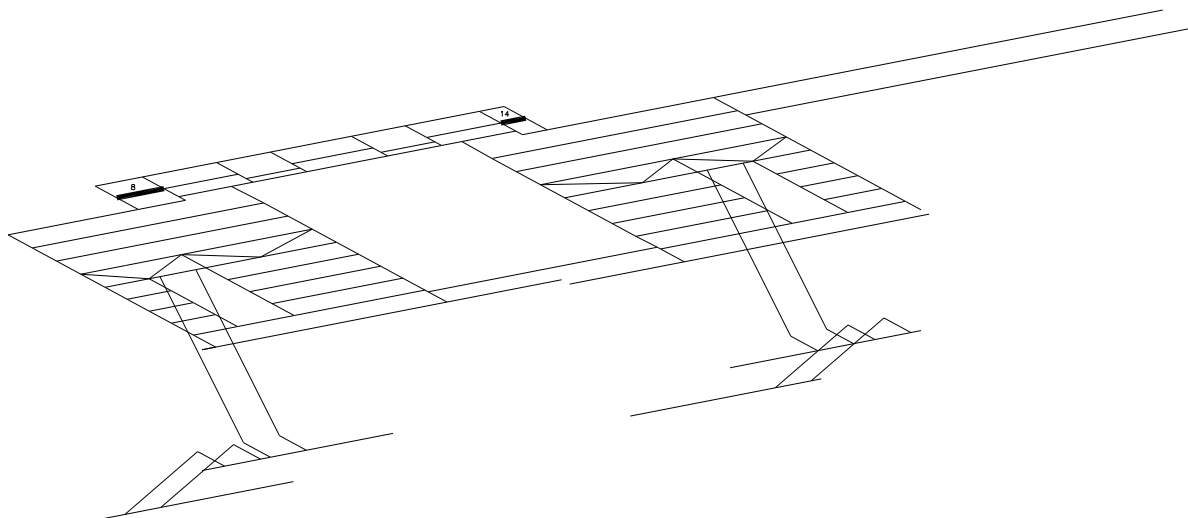
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.15999E-08

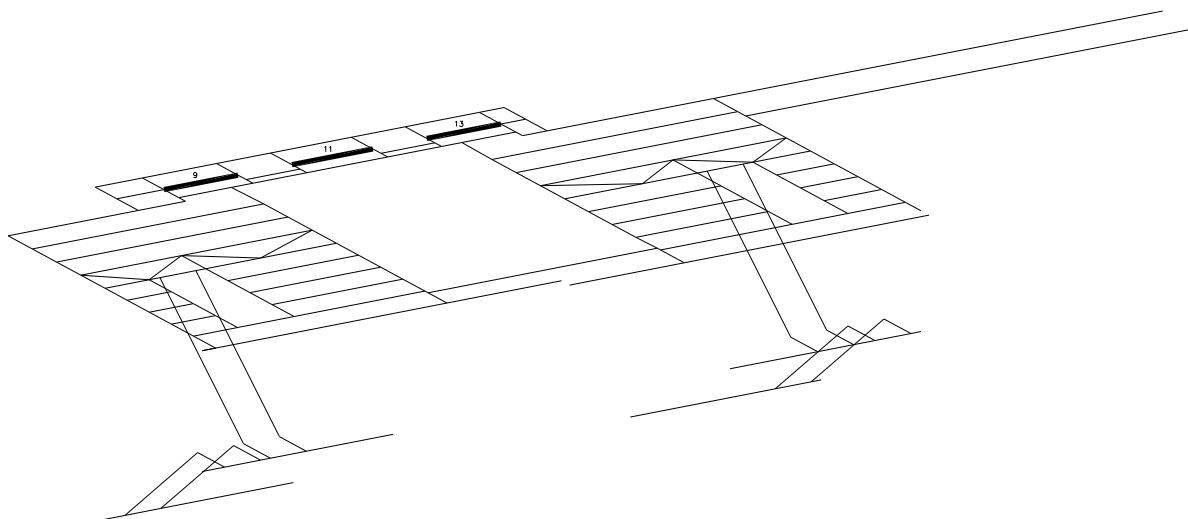
mom.setr. Iz[m4] = 1.59288E-07

ocel 37

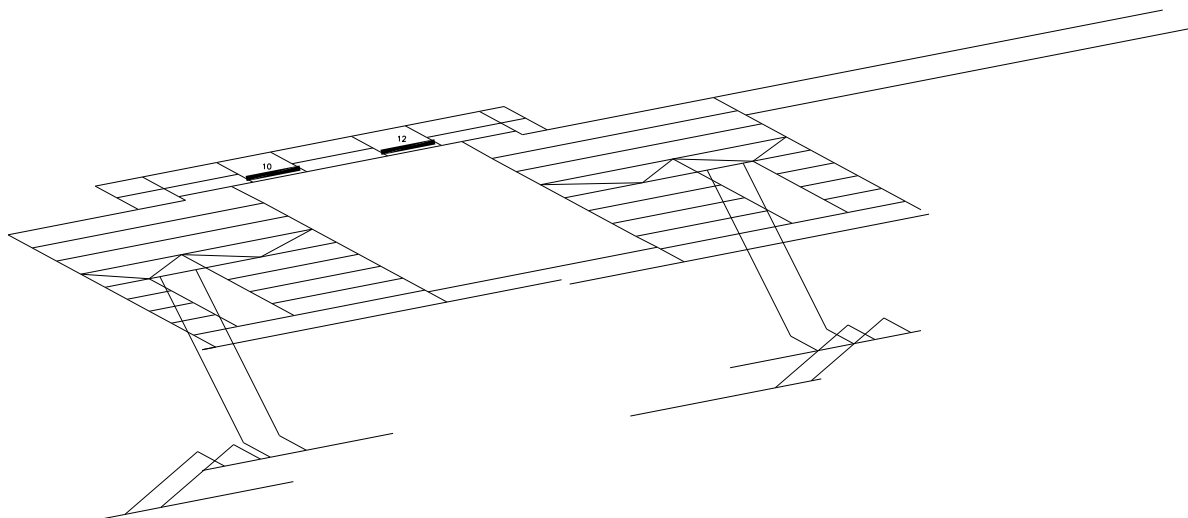
Z = -50.00



PRUREZ c. 3 (IPE)
plocha A[m2] = 2.85995E-03
mom.setr. Iy[m4] = 1.95194E-05
mom.setr. Iw[m8] = 1.29881E-08
Prvek 1 IPE 200
poloha teziste Y = 50.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 6.98000E-08
mom.setr. Iz[m4] = 1.42443E-06
ocel 37
Z = -100.00



PRUREZ c. 4 (UPE)
plocha A[m2] = 1.08719E-03
mom.setr. Iy[m4] = 1.73306E-06
mom.setr. Iw[m8] = 3.31313E-10
Prvek 1 UPE 100
poloha teziste Y = 15.33
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.62000E-08
mom.setr. Iz[m4] = 2.28325E-07
ocel 37
Z = -50.00



PRUREZ c. 5 (U svar)

plocha A[m2] = 2.28000E-02

mom.setr. Iy[m4] = 7.61490E-04

mom.setr. Iw[m8] = 4.53720E-06

Prvek 1 P 30.250

Prvek 2 P 20.390

Prvek 3 P 30.250

poloha teziste Y = 85.66 Z = -225.00

rotace prurezu Rx[st] = 0.00

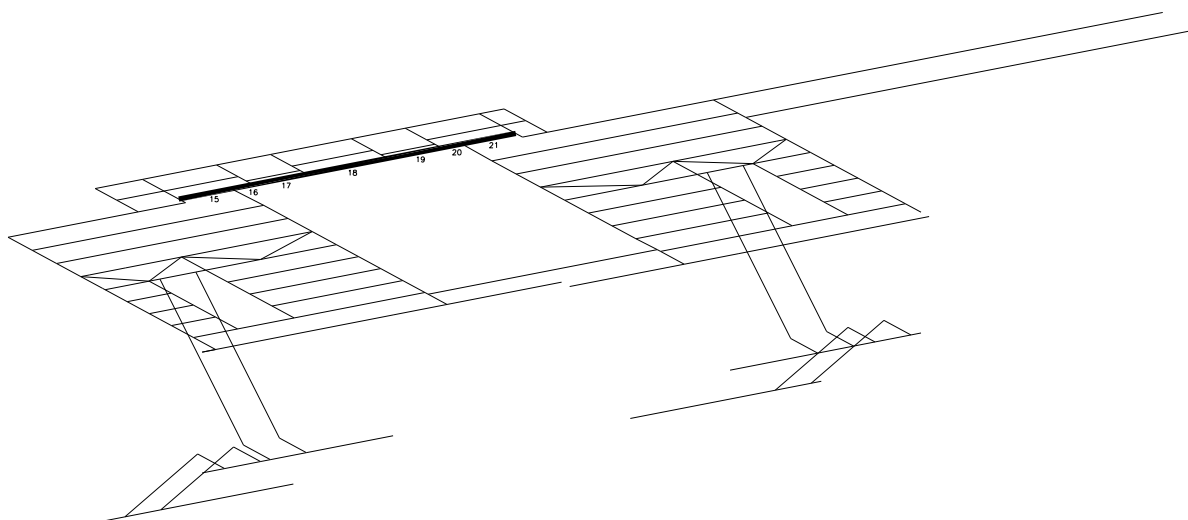
mom.setr. Ix[m4] = 5.79008E-06

mom.setr. Iz[m4] = 1.46250E-04

ocel 37

ocel 37

ocel 37



PRUREZ c. 6 (UPE)

plocha A[m2] = 1.33872E-03

mom.setr. Iy[m4] = 3.07949E-06

mom.setr. Iw[m8] = 7.68331E-10

Prvek 1 UPE 120

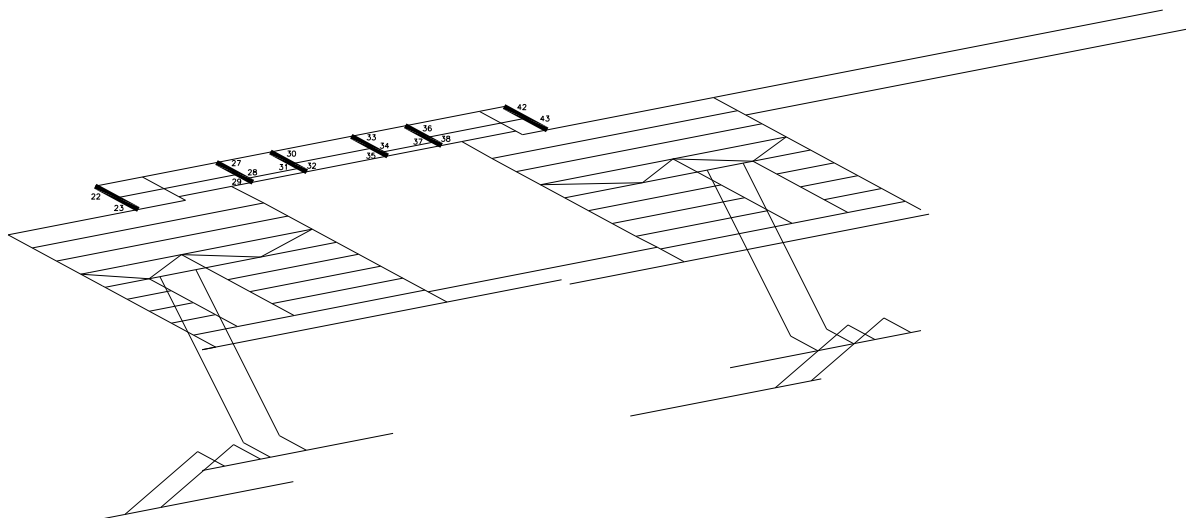
poloha teziste Y = 16.78 Z = -60.00

rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.17000E-08

mom.setr. Iz[m4] = 3.59150E-07

ocel 37



PRUREZ c. 7 (HE-B)

plocha A[m2] = 2.18562E-02

mom.setr. Iy[m4] = 8.00968E-04

mom.setr. Iw[m8] = 5.25845E-06

Prvek 1 HE-B 450

poloha teziste Y = 150.00

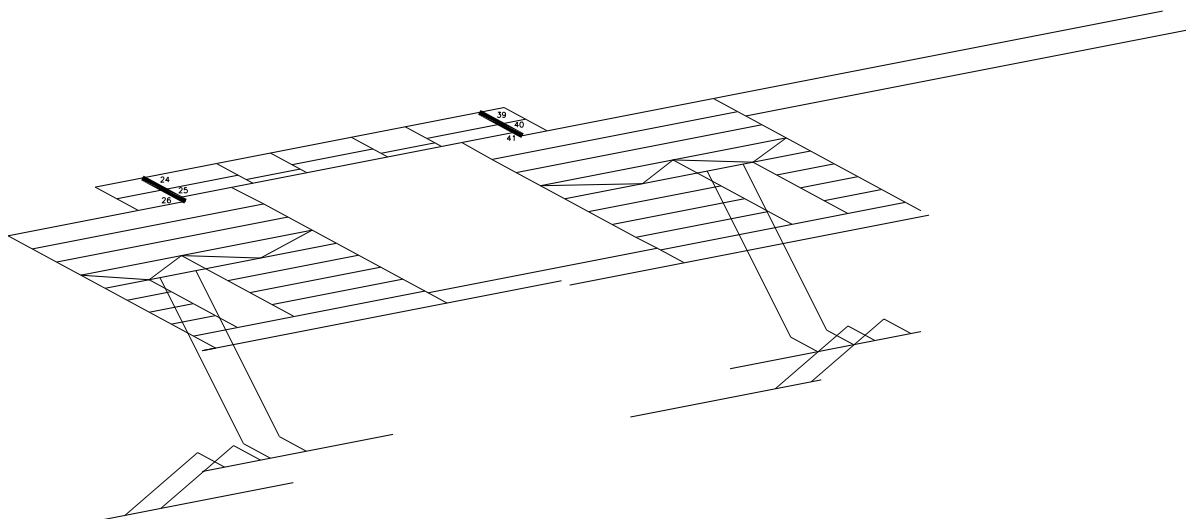
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.68064E-06

mom.setr. Iz[m4] = 1.17234E-04

ocel 37

Z = -225.00



PRUREZ c. 8 (IPE)

plocha A[m2] = 2.85995E-03

mom.setr. Iy[m4] = 1.95194E-05

mom.setr. Iw[m8] = 1.29881E-08

Prvek 1 IPE 200

poloha teziste Y = 50.00

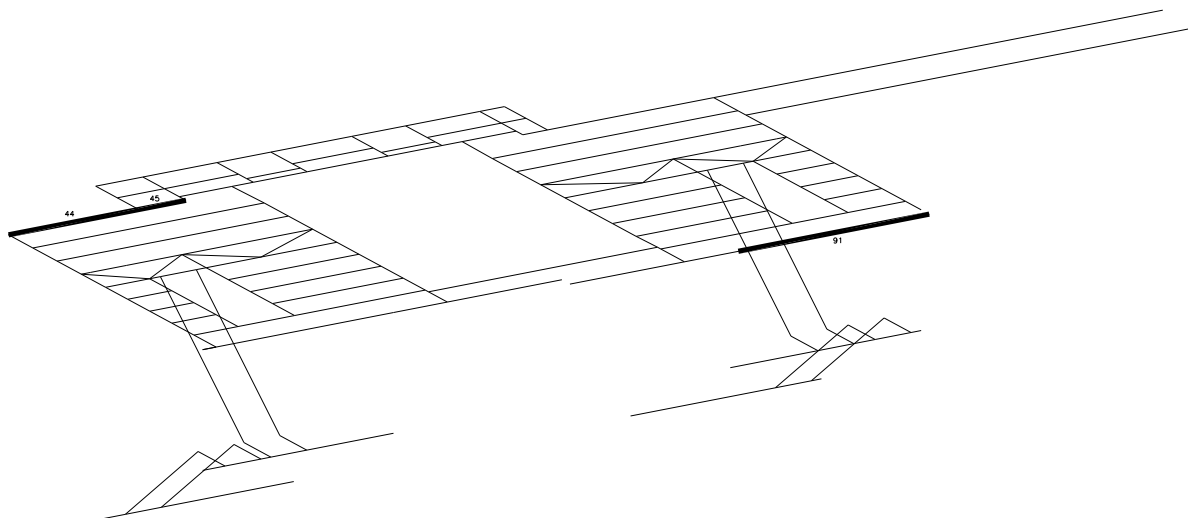
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 6.98000E-08

mom.setr. Iz[m4] = 1.42443E-06

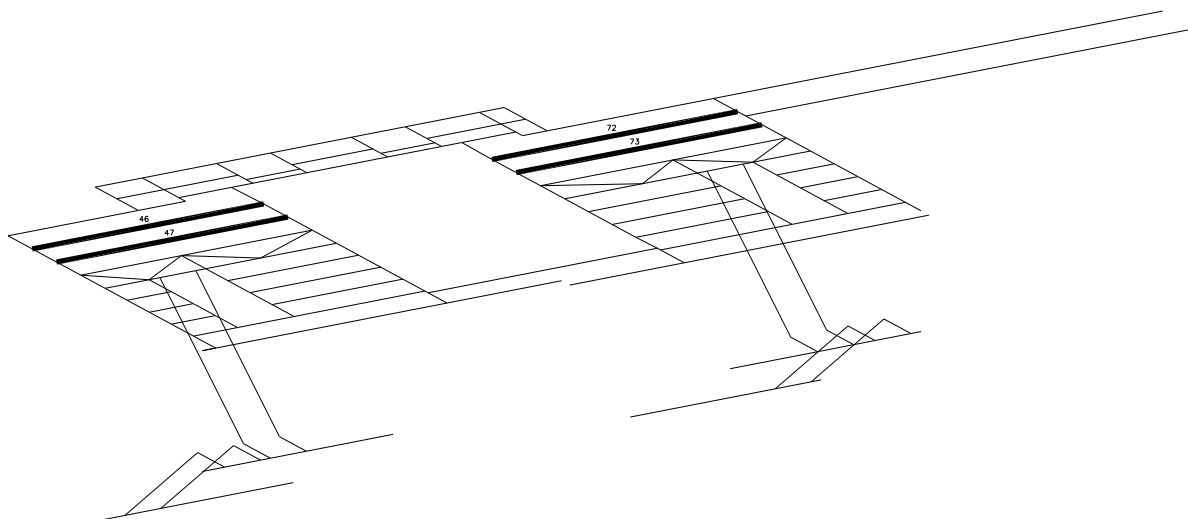
ocel 37

Z = -100.00



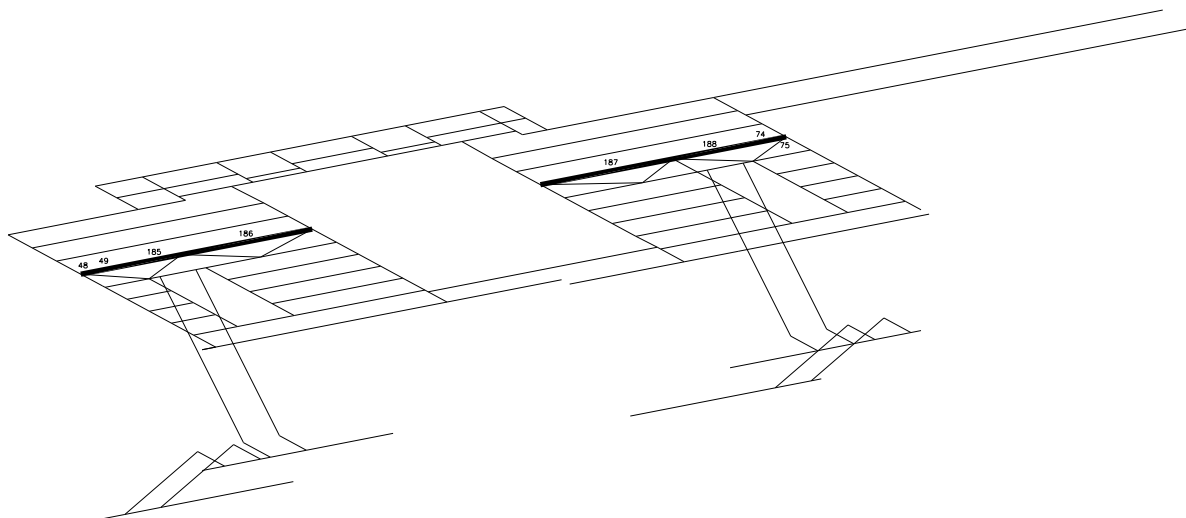
PRŮŘEZ c. 9 (IPE)
plocha A[m2] = 5.39923E-03
mom.setr. Iy[m4] = 8.38842E-05
mom.setr. Iw[m8] = 1.25934E-07
Prvek 1 IPE 300
poloha težiště Y = 75.00

rotace průřezu Rx[st] = 0.00
mom.setr. Ix[m4] = 2.01000E-07
mom.setr. Iz[m4] = 6.03963E-06
ocel 37
Z = -150.00



PRŮŘEZ c. 10 (IPE)
plocha A[m2] = 5.39923E-03
mom.setr. Iy[m4] = 8.38842E-05
mom.setr. Iw[m8] = 1.25934E-07
Prvek 1 IPE 300
poloha težiště Y = 75.00

rotace průřezu Rx[st] = 0.00
mom.setr. Ix[m4] = 2.01000E-07
mom.setr. Iz[m4] = 6.03963E-06
ocel 37
Z = -150.00



PRŮŘEZ c. 11 (IPE)

plocha A[m2] = 9.91741E-03

mom.setr. Iy[m4] = 3.38883E-04

mom.setr. Iw[m8] = 7.91005E-07

Prvek 1 IPE 450

poloha těžiště Y = 95.00

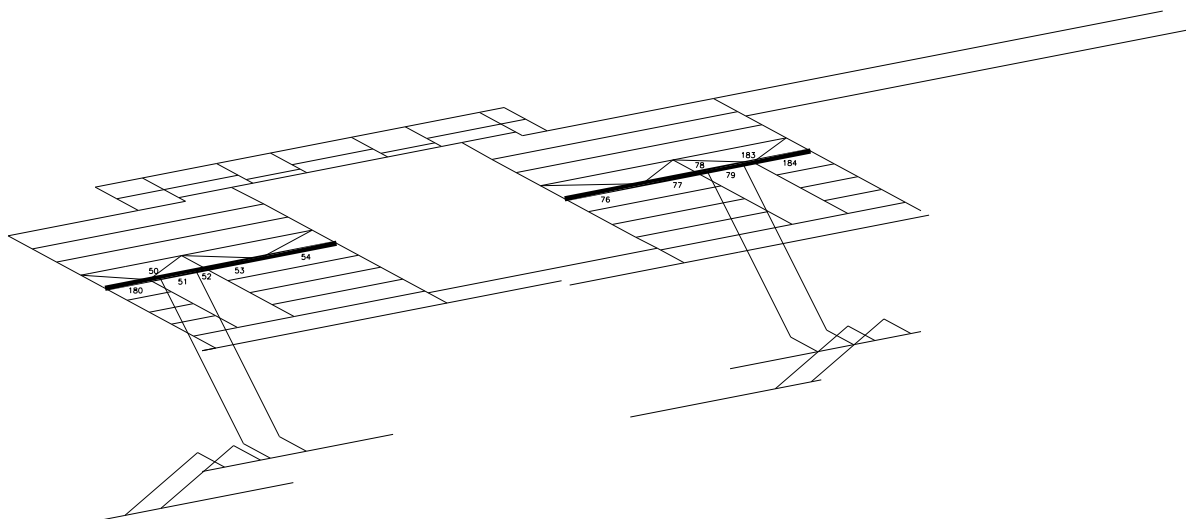
rotace průřezu Rx[st] = 0.00

mom.setr. Ix[m4] = 6.71000E-07

mom.setr. Iz[m4] = 1.67655E-05

ocel 37

Z = -225.00



PRŮŘEZ c. 12 (IPE)

plocha A[m2] = 1.03625E-03

mom.setr. Iy[m4] = 1.71698E-06

mom.setr. Iw[m8] = 3.51378E-10

Prvek 1 IPE 100

poloha těžiště Y = 27.50

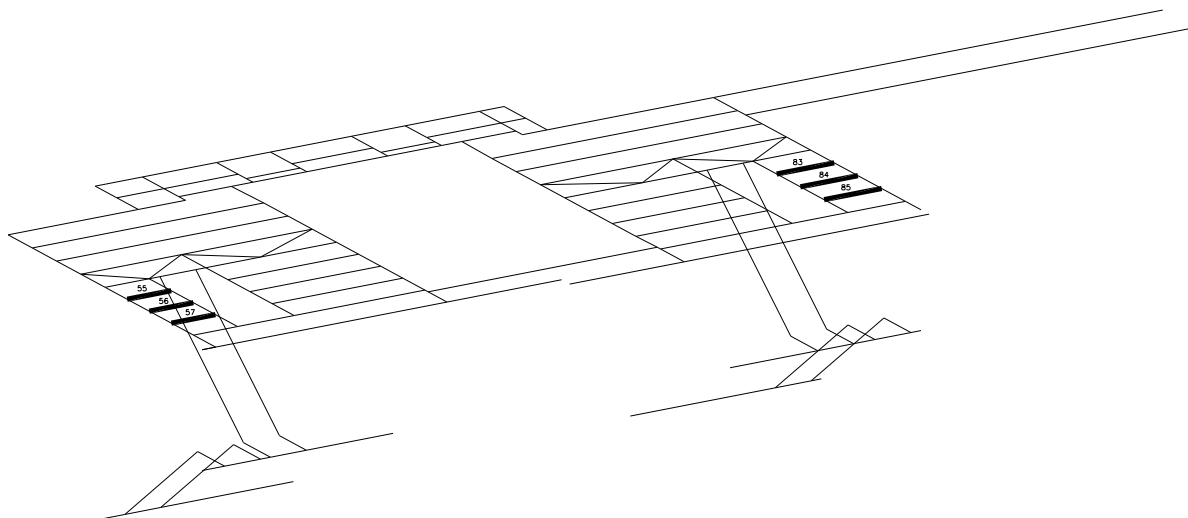
rotace průřezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.15999E-08

mom.setr. Iz[m4] = 1.59288E-07

ocel 37

Z = -50.00



PRUREZ c. 13 (IPE)

plocha A[m2] = 2.40122E-03

mom.setr. Iy[m4] = 1.32098E-05

mom.setr. Iw[m8] = 7.43121E-09

Prvek 1 IPE 180

poloha teziste Y = 45.50

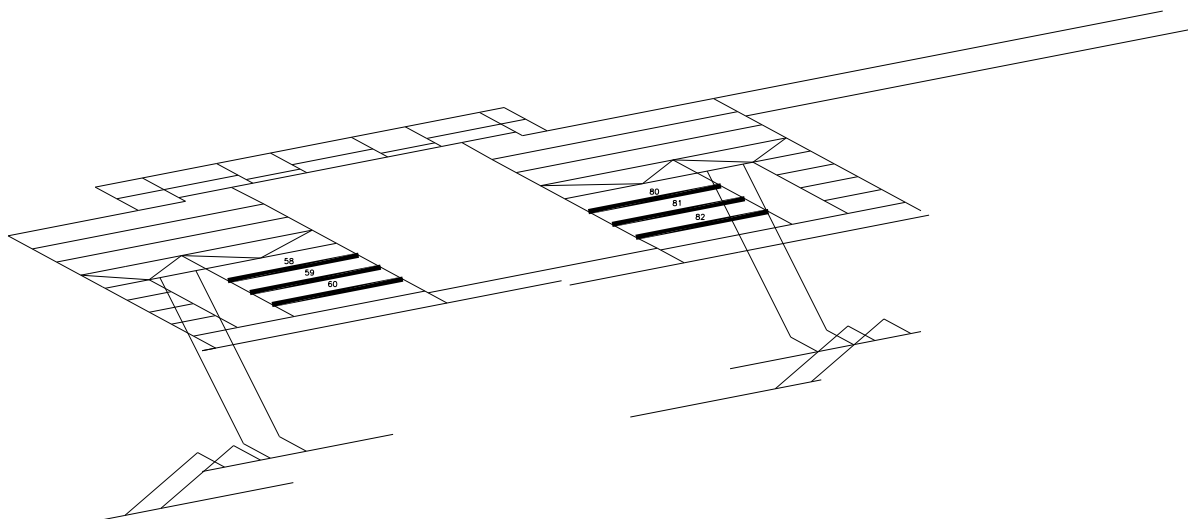
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 4.78000E-08

mom.setr. Iz[m4] = 1.00878E-06

ocel 37

Z = -90.00



PRUREZ c. 14 (IPE)

plocha A[m2] = 8.48169E-03

mom.setr. Iy[m4] = 2.32415E-04

mom.setr. Iw[m8] = 4.90048E-07

Prvek 1 IPE 400

poloha teziste Y = 90.00

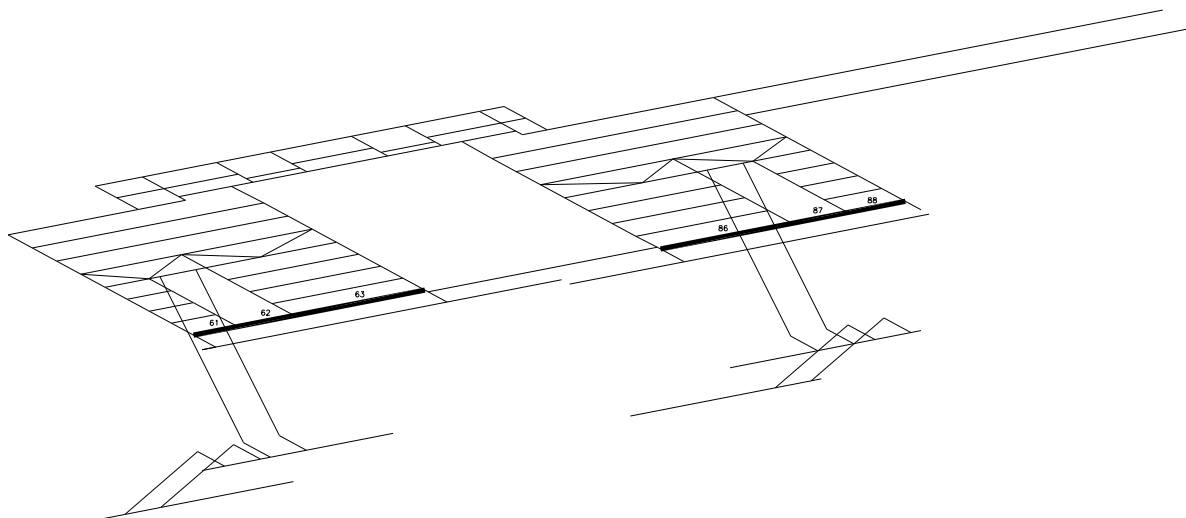
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.14000E-07

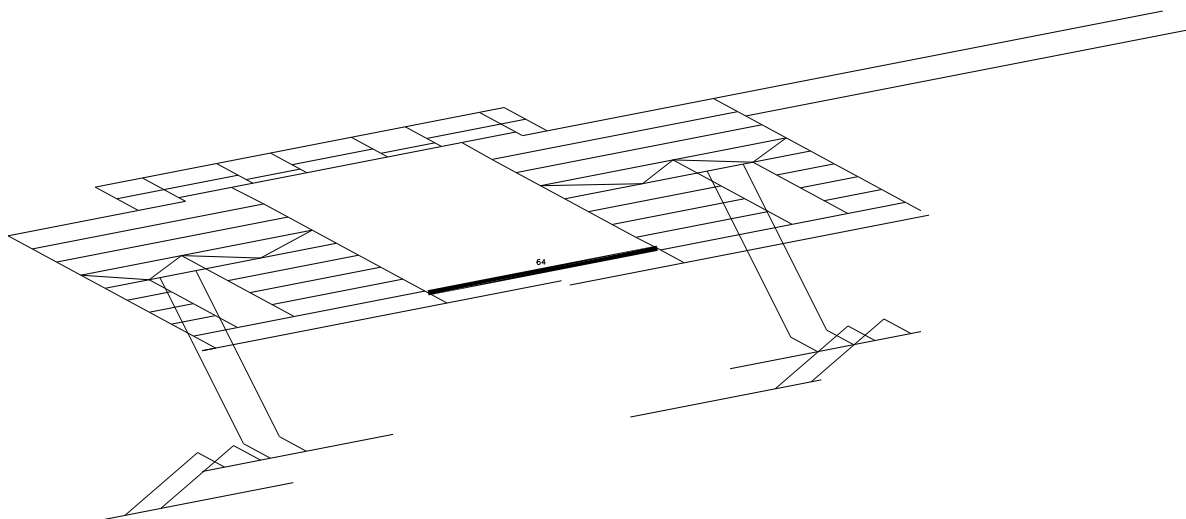
mom.setr. Iz[m4] = 1.31848E-05

ocel 37

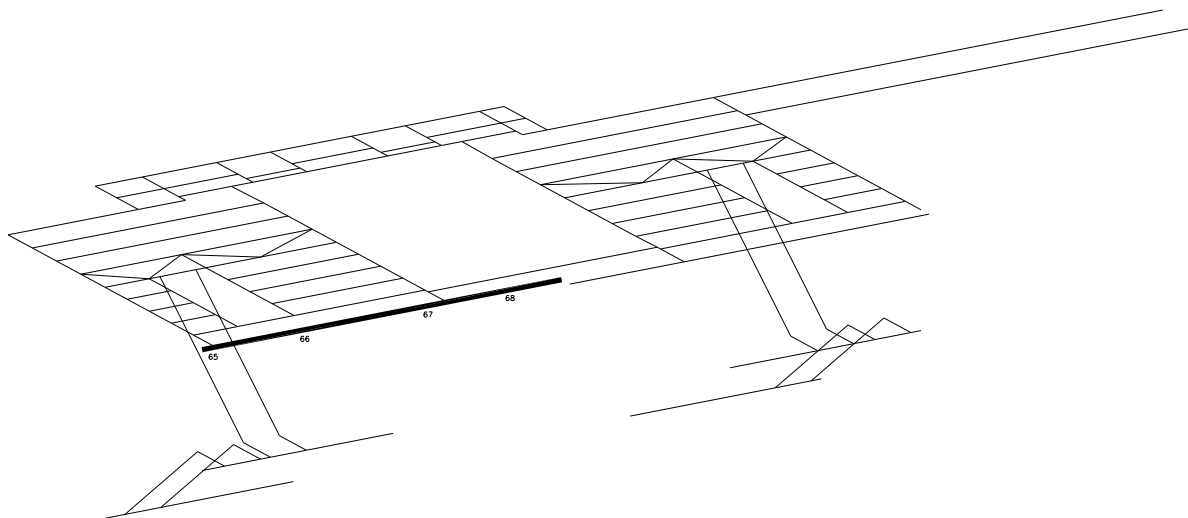
Z = -200.00



PRUREZ c. 15 (UPE)
plocha A[m2] = 3.08374E-03
mom.setr. Iy[m4] = 2.93875E-05
mom.setr. Iw[m8] = 2.33079E-08
Prvek 1 UPE 240
poloha teziste Y = 27.52 Z = -120.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 7.90000E-08
mom.setr. Iz[m4] = 2.54086E-06
ocel 37



PRUREZ c. 16 (U svar)
plocha A[m2] = 1.14000E-02
mom.setr. Iy[m4] = 2.75120E-04
mom.setr. Iw[m8] = 6.09369E-07
Prvek 1 P 20.150
Prvek 2 P 15.360
Prvek 3 P 20.150
poloha teziste Y = 43.03 Z = -200.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.26330E-06
mom.setr. Iz[m4] = 2.43006E-05
ocel 37
ocel 37
ocel 37



PRŮŘEZ c. 17 (IPE)

plocha A[m2] = 1.15875E-02

mom.setr. Iy[m4] = 4.83796E-04

mom.setr. Iw[m8] = 1.24937E-06

Prvek 1 IPE 500

poloha težiště Y = 100.00

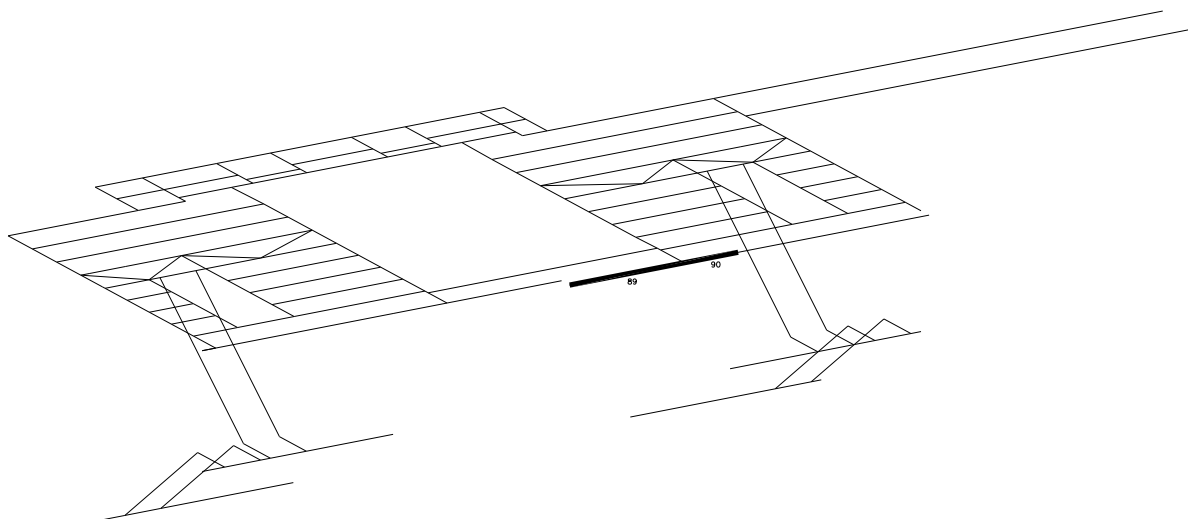
rotace průřezu Rx[st] = 0.00

mom.setr. Ix[m4] = 8.95999E-07

mom.setr. Iz[m4] = 2.14241E-05

ocel 37

Z = -250.00



PRŮŘEZ c. 18 (UPE)

plocha A[m2] = 6.16831E-03

mom.setr. Iy[m4] = 1.53271E-04

mom.setr. Iw[m8] = 2.02505E-07

Prvek 1 UPE 400

poloha težiště Y = 31.02

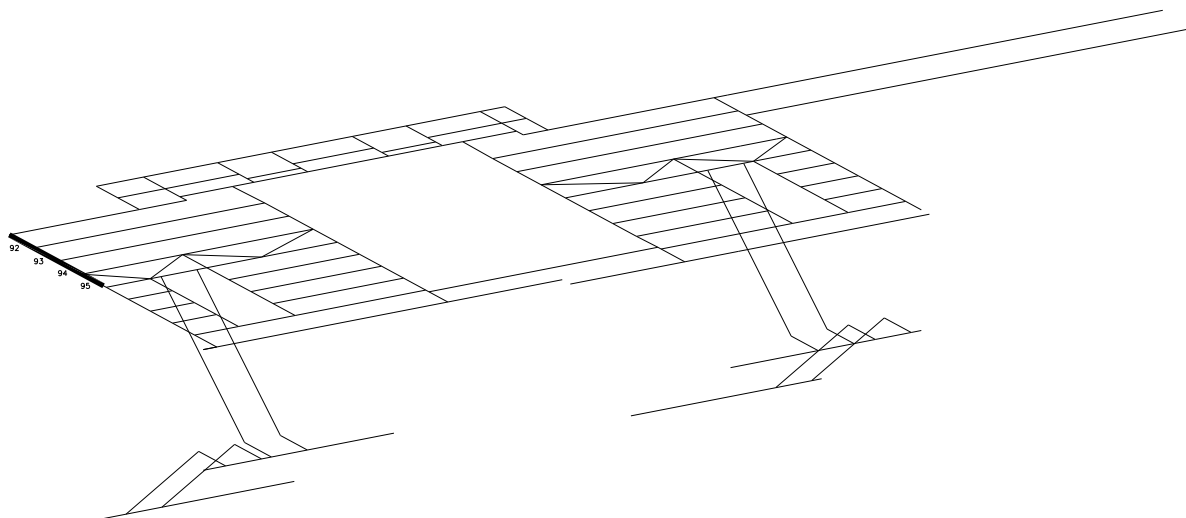
rotace průřezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.61000E-07

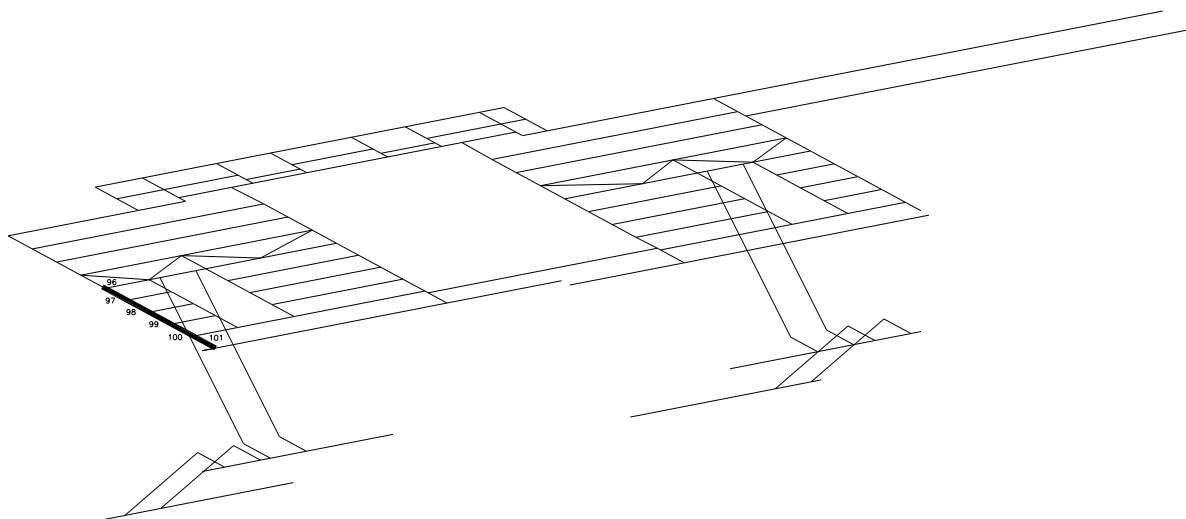
mom.setr. Iz[m4] = 7.82578E-06

ocel 37

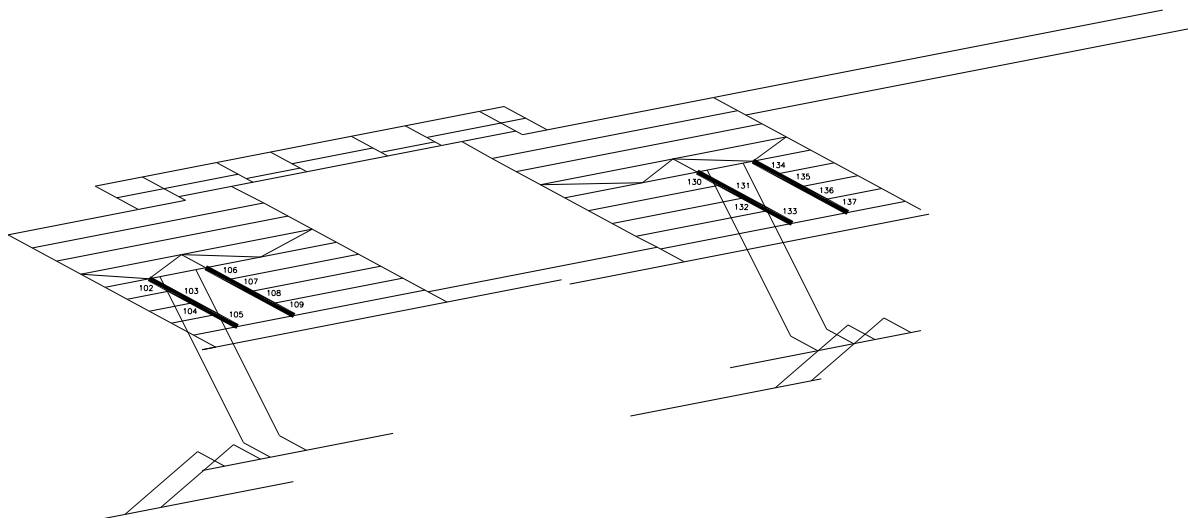
Z = -200.00



PRUREZ c. 19 (UPE)
plocha A[m2] = 6.16831E-03
mom.setr. Iy[m4] = 1.53271E-04
mom.setr. Iw[m8] = 2.02505E-07
Prvek 1 UPE 400
poloha teziste Y = 31.02
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 2.61000E-07
mom.setr. Iz[m4] = 7.82578E-06
Z = -200.00
ocel 37



PRUREZ c. 20 (UPE)
plocha A[m2] = 4.07457E-03
mom.setr. Iy[m4] = 5.88499E-05
mom.setr. Iw[m8] = 5.83077E-08
Prvek 1 UPE 300
poloha teziste Y = 28.59
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.24000E-07
mom.setr. Iz[m4] = 4.03393E-06
Z = -150.00
ocel 37



PRUREZ c. 21 (HE-B)

plocha A[m2] = 2.39222E-02

mom.setr. Iy[m4] = 1.07439E-03

mom.setr. Iw[m8] = 7.01770E-06

Prvek 1 HE-B 500

poloha teziste Y = 150.00

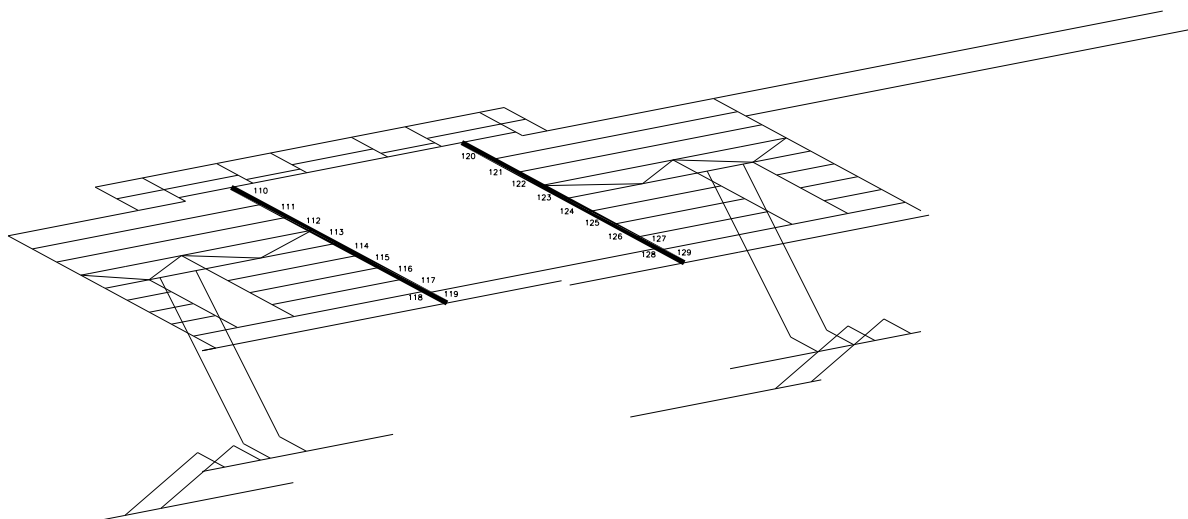
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 4.57617E-06

mom.setr. Iz[m4] = 1.26260E-04

ocel 37

Z = -250.00



PRUREZ c. 22 (U svar)

plocha A[m2] = 2.28000E-02

mom.setr. Iy[m4] = 7.61490E-04

mom.setr. Iw[m8] = 4.53720E-06

Prvek 1 P 30.250

Prvek 2 P 20.390

Prvek 3 P 30.250

poloha teziste Y = 85.66

rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.79008E-06

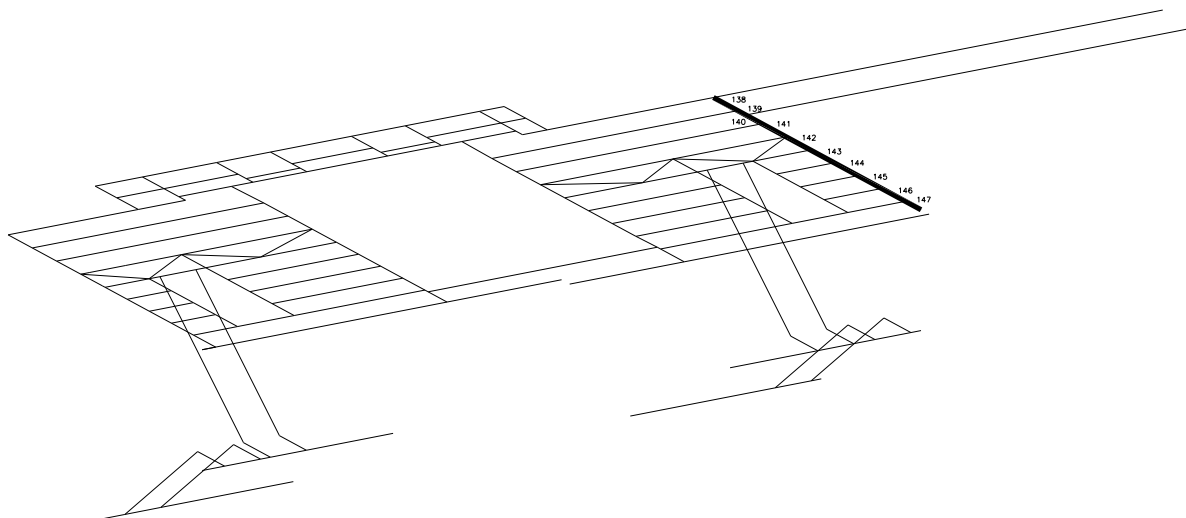
mom.setr. Iz[m4] = 1.46250E-04

ocel 37

ocel 37

ocel 37

Z = -225.00



PRUREZ c. 23 (IPE)

plocha A[m2] = 3.92965E-03

mom.setr. Iy[m4] = 3.91143E-05

mom.setr. Iw[m8] = 3.73912E-08

Prvek 1 IPE 240

poloha teziste Y = 60.00

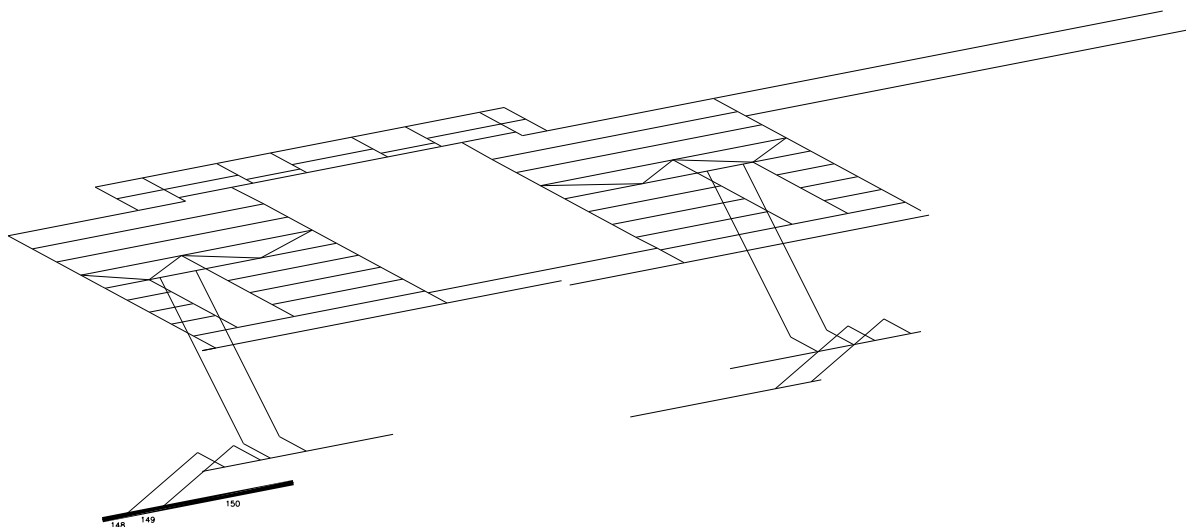
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.31000E-07

mom.setr. Iz[m4] = 2.83805E-06

ocel 37

Z = -120.00



PRUREZ c. 24 (IPE)

plocha A[m2] = 2.40122E-03

mom.setr. Iy[m4] = 1.32098E-05

mom.setr. Iw[m8] = 7.43121E-09

Prvek 1 IPE 180

poloha teziste Y = 45.50

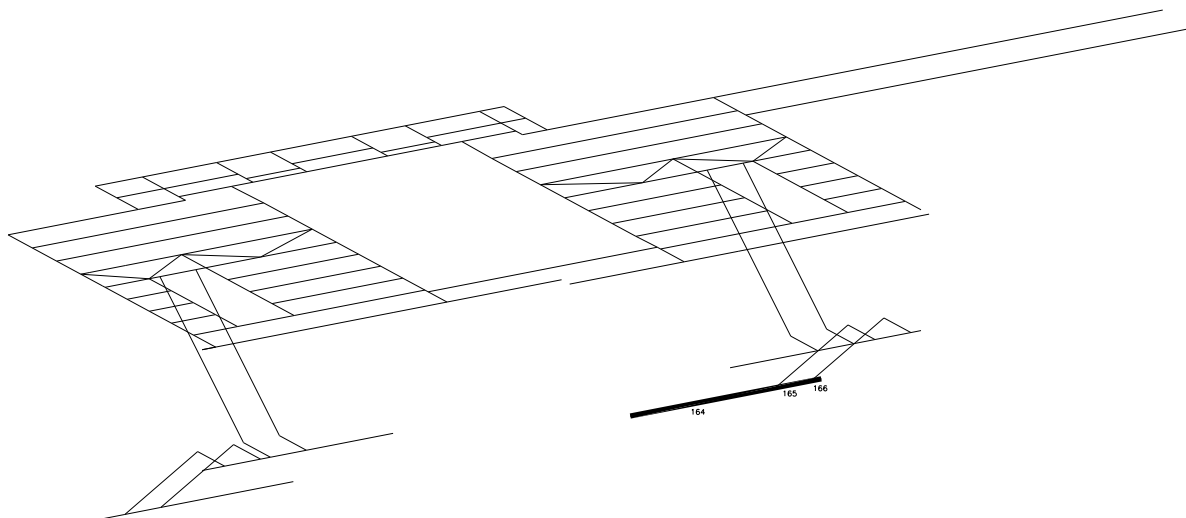
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 4.78000E-08

mom.setr. Iz[m4] = 1.00878E-06

ocel 37

Z = -90.00



PRUREZ c. 25 (UPE)

plocha A[m2] = 4.07457E-03

mom.setr. Iy[m4] = 5.88499E-05

mom.setr. Iw[m8] = 5.83077E-08

Prvek 1 UPE 300

poloha teziste Y = 28.59

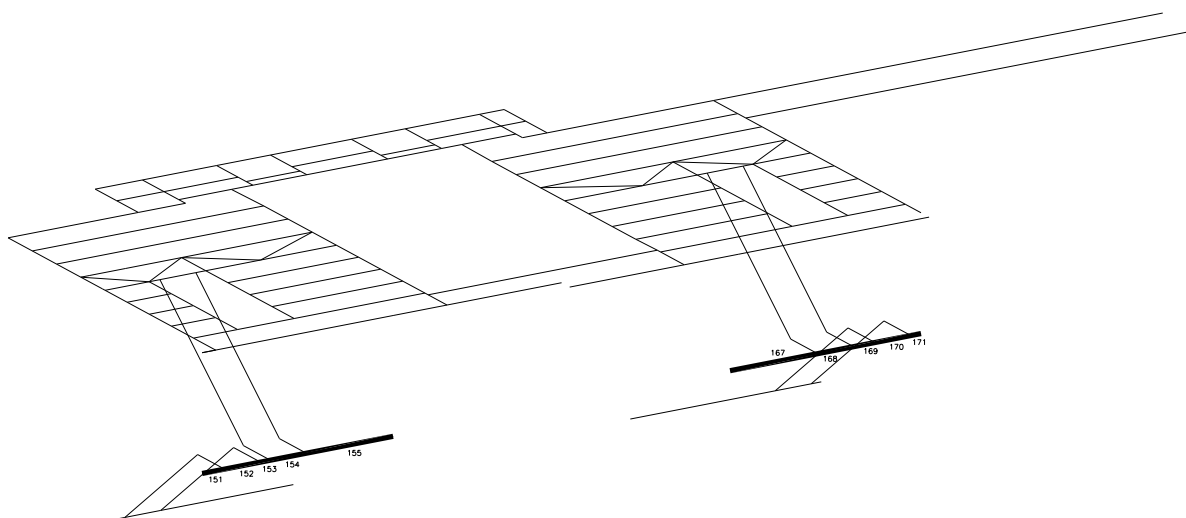
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.24000E-07

mom.setr. Iz[m4] = 4.03393E-06

ocel 37

Z = -150.00



PRUREZ c. 26 (UPE)

plocha A[m2] = 2.35675E-03

mom.setr. Iy[m4] = 1.54319E-05

mom.setr. Iw[m8] = 8.64595E-09

Prvek 1 UPE 200

poloha teziste Y = 23.24

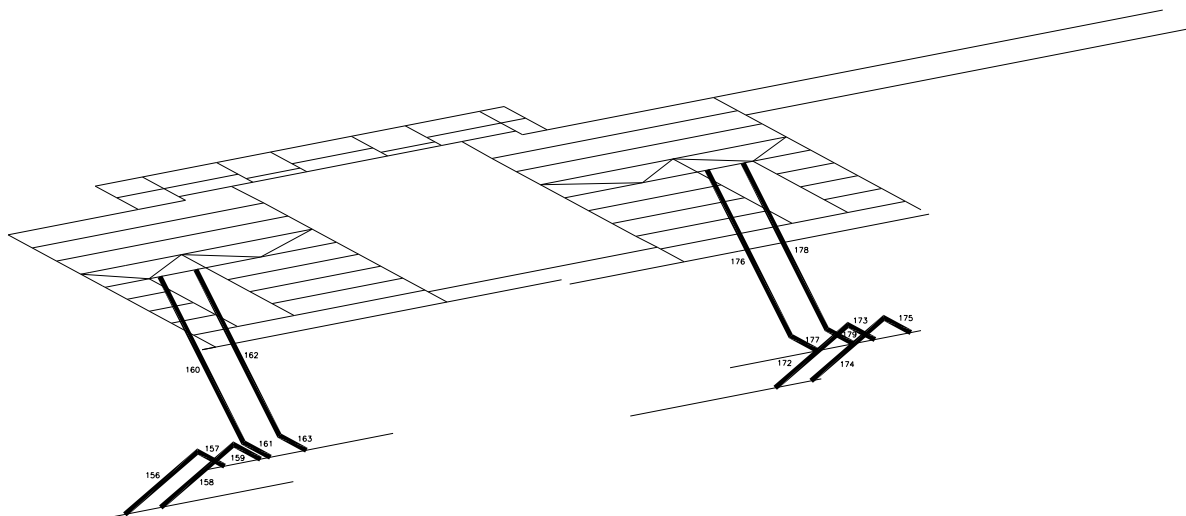
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 4.91000E-08

mom.setr. Iz[m4] = 1.37253E-06

ocel 37

Z = -100.00



PRUREZ c. 27 (HE-A)

plocha A[m2] = 1.24952E-02

mom.setr. Iy[m4] = 2.30271E-04

mom.setr. Iw[m8] = 1.51236E-06

Prvek 1 HE-A 320

poloha teziste Y = 150.00

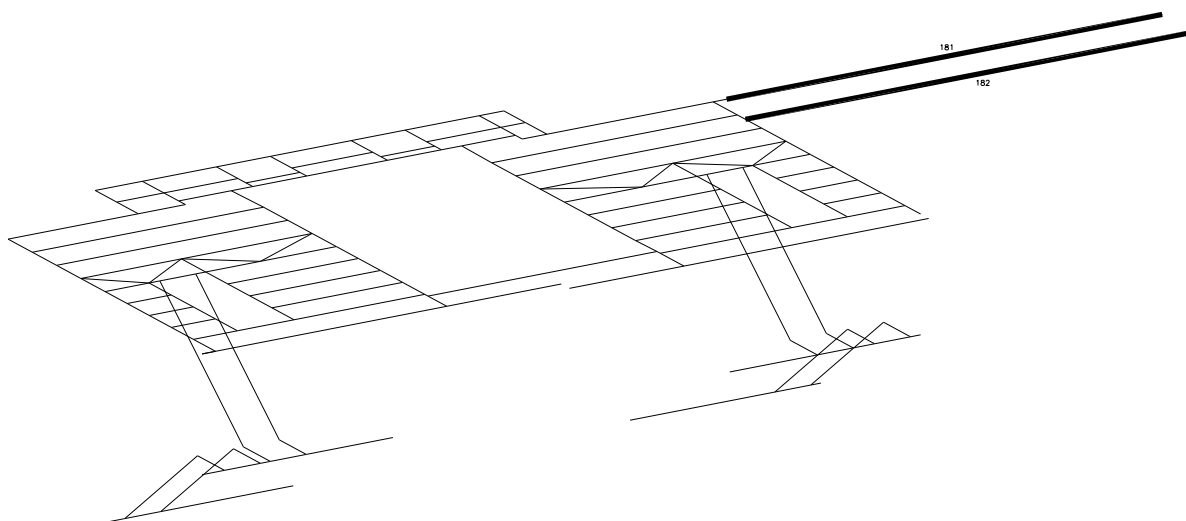
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 7.87059E-07

mom.setr. Iz[m4] = 6.98684E-05

ocel 37

Z = -155.00



PRUREZ c. 28 (I)

plocha A[m2] = 7.77353E-03

mom.setr. Iy[m4] = 1.24973E-04

mom.setr. Iw[m8] = 1.22691E-07

Prvek 1 I 320

poloha teziste Y = 65.50

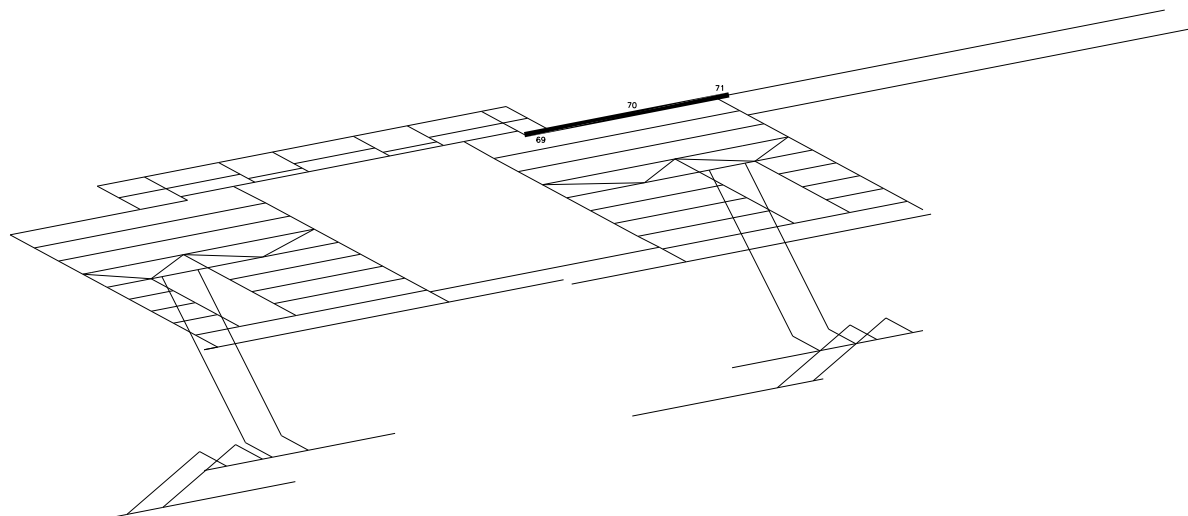
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 7.27000E-07

mom.setr. Iz[m4] = 5.52298E-06

ocel 37

Z = -160.00



PRUREZ c. 29 (Trubka)

plocha A[m2] = 4.20219E-04

mom.setr. Iy[m4] = 9.23159E-08

mom.setr. Iw[m8] = 0.00000E+00

Prvek 1 Tr. D=45/3

poloha teziste Y = 22.50

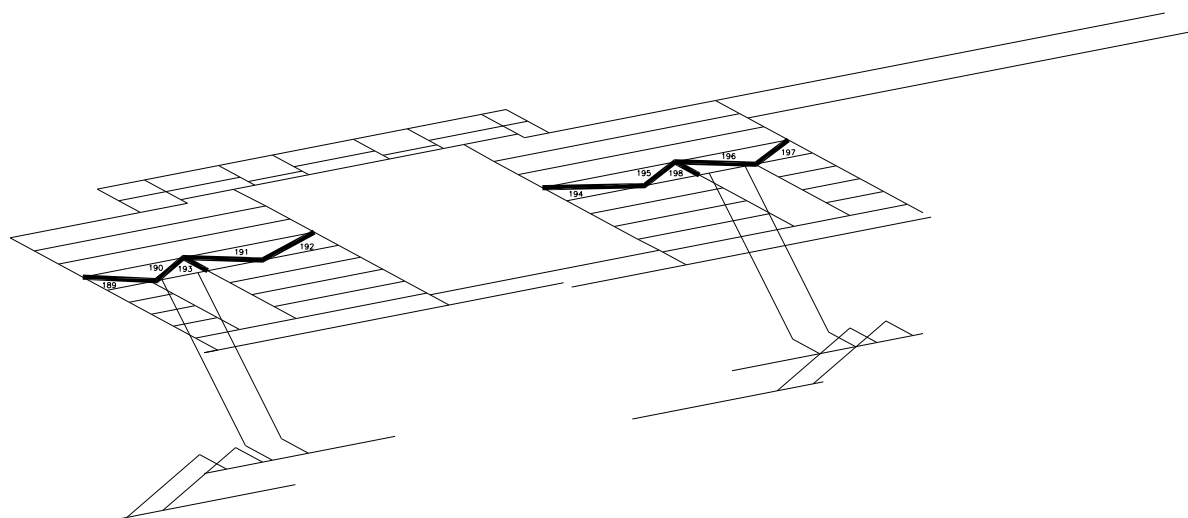
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.84632E-07

mom.setr. Iz[m4] = 9.23159E-08

ocel 37

Z = -22.50



M A T E R I A L

Material c. 1 ocel 37

merna hmotnost [kg/m^3] : 7850.000
pevnost v tahu [MPa] : 210.000
pevnost v tlaku [MPa] : 210.000
pevnost ve smyku [MPa] : 126.000
modul pružnosti [MPa] : 210000.000
Poissonuv soucinitel : 0.300
Soucinitel tep. roztaznosti : 1.5E-0003



Z A T Ě Z O V A C Í S T Á V Y

1.	TIHA	/ 1.350	stale
2.	PODLAHA		stale
3.	STALE REZERVA		stale
4.	UZITNE		stale
5.	TECHNOLOGIE		stale

SPOJITE IMPULZY - stav 1 (TIHA / 1.350)									
prut	typ	X	Y	Z	sourX	exY	exZ	koef	
1	sil			-0.42 glob	0.00%			1.35	
				-0.42 del	1.00%				
2	sil			-0.42 glob	0.00%			1.35	
				-0.42 del	1.00%				
3	sil			-0.42 glob	0.00%			1.35	
				-0.42 del	1.00%				
4	sil			-0.42 glob	0.00%			1.35	
				-0.42 del	1.00%				
5	sil			-0.42 glob	0.00%			1.35	
				-0.42 del	1.00%				
6	sil			-0.42 glob	0.00%			1.35	
				-0.42 del	1.00%				
7	sil			-0.42 glob	0.00%			1.35	
				-0.42 del	1.00%				
8	sil			-0.08 glob	0.00%			1.35	
				-0.08 del	1.00%				
9	sil			-0.22 glob	0.00%			1.35	
				-0.22 del	1.00%				
10	sil			-0.09 glob	0.00%			1.35	
				-0.09 del	1.00%				
11	sil			-0.22 glob	0.00%			1.35	
				-0.22 del	1.00%				
12	sil			-0.09 glob	0.00%			1.35	
				-0.09 del	1.00%				
13	sil			-0.22 glob	0.00%			1.35	
				-0.22 del	1.00%				
14	sil			-0.08 glob	0.00%			1.35	
				-0.08 del	1.00%				
15	sil			-1.79 glob	0.00%			1.35	
				-1.79 del	1.00%				
16	sil			-1.79 glob	0.00%			1.35	
				-1.79 del	1.00%				
17	sil			-1.79 glob	0.00%			1.35	
				-1.79 del	1.00%				
18	sil			-1.79 glob	0.00%			1.35	
				-1.79 del	1.00%				
19	sil			-1.79 glob	0.00%			1.35	
				-1.79 del	1.00%				
20	sil			-1.79 glob	0.00%			1.35	
				-1.79 del	1.00%				
21	sil			-1.79 glob	0.00%			1.35	
				-1.79 del	1.00%				
22	sil			-0.11 glob	0.00%			1.35	
				-0.11 del	1.00%				
23	sil			-0.11 glob	0.00%			1.35	
				-0.11 del	1.00%				
24	sil			-1.72 glob	0.00%			1.35	
				-1.72 del	1.00%				



25 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
26 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
27 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
28 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
29 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
30 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
31 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
32 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
33 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
34 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
35 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
36 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
37 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
38 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
39 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
40 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
41 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
42 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
43 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
44 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
45 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
46 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
47 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
48 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
49 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
50 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
51 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
52 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
53 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
54 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	



55 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
56 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
57 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
58 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
59 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
60 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
61 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
62 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
63 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
64 sil	-0.24 glob	0.00%	1.35
	-0.24 del	1.00%	
65 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
66 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
67 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
68 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
69 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
70 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
71 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
72 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
73 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
74 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
75 sil	-0.42 glob	0.00%	1.35
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76 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
77 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
78 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
79 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
80 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
81 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
82 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
83 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
84 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	



85 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
86 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
87 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
88 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
89 sil	-0.91 glob	0.00%	1.35
	-0.91 del	1.00%	
90 sil	-0.91 glob	0.00%	1.35
	-0.91 del	1.00%	
91 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
92 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
93 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
94 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
95 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
96 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
97 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
98 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
99 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
100 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
101 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
102 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
103 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
104 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
105 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
106 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
107 sil	-0.32 glob	0.00%	1.35
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108 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
109 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
110 sil	-1.88 glob	0.00%	1.35
	-1.88 del	1.00%	
111 sil	-1.88 glob	0.00%	1.35
	-1.88 del	1.00%	
112 sil	-1.88 glob	0.00%	1.35
	-1.88 del	1.00%	
113 sil	-1.88 glob	0.00%	1.35
	-1.88 del	1.00%	
114 sil	-1.88 glob	0.00%	1.35
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115 sil	-1.88 glob	0.00%	1.35
	-1.88 del	1.00%	
116 sil	-1.88 glob	0.00%	1.35
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117 sil	-1.88 glob	0.00%	1.35
	-1.88 del	1.00%	
118 sil	-1.88 glob	0.00%	1.35
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119 sil	-1.88 glob	0.00%	1.35
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120 sil	-1.88 glob	0.00%	1.35
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121 sil	-1.88 glob	0.00%	1.35
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122 sil	-1.88 glob	0.00%	1.35
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123 sil	-1.88 glob	0.00%	1.35
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124 sil	-1.88 glob	0.00%	1.35
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125 sil	-1.88 glob	0.00%	1.35
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126 sil	-1.88 glob	0.00%	1.35
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127 sil	-1.88 glob	0.00%	1.35
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128 sil	-1.88 glob	0.00%	1.35
	-1.88 del	1.00%	
129 sil	-1.88 glob	0.00%	1.35
	-1.88 del	1.00%	
130 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
131 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
132 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
133 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
134 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
135 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
136 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
137 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
138 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
139 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
140 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
141 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
142 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
143 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
144 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	



145 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
146 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
147 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
148 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
149 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
150 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
151 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
152 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
153 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
154 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
155 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
156 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
157 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
158 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
159 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
160 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
161 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
162 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
163 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
164 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
165 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
166 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
167 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
168 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
169 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
170 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
171 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
172 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
173 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
174 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	



175 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
176 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
177 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
178 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
179 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
180 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
181 sil	-0.98 glob	0.00%	1.35
	-0.98 del	1.00%	
182 sil	-0.98 glob	0.00%	1.35
	-0.98 del	1.00%	
183 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
184 sil	-0.78 glob	0.00%	1.35
	-0.78 del	1.00%	
185 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
186 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
187 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
188 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
189 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
190 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
191 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
192 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
193 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
194 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
195 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
196 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
197 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	
198 sil	-0.03 glob	0.00%	1.35
	-0.03 del	1.00%	

SPOJITE IMPULZY - stav 2 (PODLAHA)									
prut	typ	X	Y	Z	sourX	exY	exZ	koef	
1	sil			-0.45 glob	0.00%			1.35	
				-0.45 prum	1.00%				
2	sil			-0.45 glob	0.00%			1.35	
				-0.45 prum	1.00%				
4	sil			-0.45 glob	0.00%			1.35	
				-0.45 prum	1.00%				
6	sil			-0.45 glob	0.00%			1.35	
				-0.45 prum	1.00%				



7 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
8 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
9 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
10 sil	-0.09 glob	0.00%	1.35
	-0.09 prum	1.00%	
11 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
12 sil	-0.09 glob	0.00%	1.35
	-0.09 prum	1.00%	
13 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
14 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
15 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
16 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
17 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
18 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
19 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
20 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
21 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
22 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
23 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
42 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
43 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
44 sil	-0.47 glob	0.00%	1.35
	-0.47 prum	1.00%	
45 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
46 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
47 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
48 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
49 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
50 sil	-0.17 glob	0.00%	1.35
	-0.17 prum	1.00%	
51 sil	-0.17 glob	0.00%	1.35
	-0.17 prum	1.00%	
52 sil	-0.17 glob	0.00%	1.35
	-0.17 prum	1.00%	
53 sil	-0.32 glob	0.00%	1.35
	-0.32 prum	1.00%	
54 sil	-0.32 glob	0.00%	1.35
	-0.32 prum	1.00%	



55 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
56 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
57 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
58 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
59 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
60 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
61 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
62 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
63 sil	-0.30 glob	0.00%	1.35
	-0.30 prum	1.00%	
64 sil	-0.46 glob	0.00%	1.35
	-0.46 prum	1.00%	
66 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
67 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
68 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
69 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
70 sil	-0.47 glob	0.00%	1.35
	-0.47 prum	1.00%	
71 sil	-0.52 glob	0.00%	1.35
	-0.52 del	1.00%	
72 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
73 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
74 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
75 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
76 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
77 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
78 sil	-0.17 glob	0.00%	1.35
	-0.17 prum	1.00%	
79 sil	-0.17 glob	0.00%	1.35
	-0.17 prum	1.00%	
80 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
81 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
82 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
83 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
84 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
85 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	



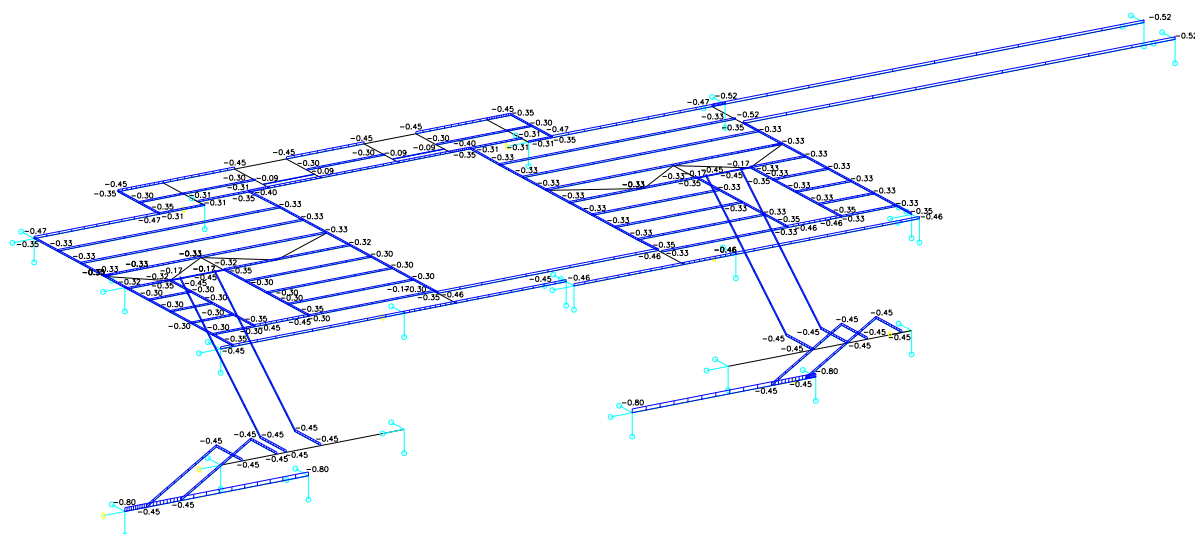
86 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
87 sil	-0.46 glob	0.00%	1.35
	-0.46 prum	1.00%	
88 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
89 sil	-0.46 glob	0.00%	1.35
	-0.46 prum	1.00%	
90 sil	-0.46 glob	0.00%	1.35
	-0.46 prum	1.00%	
91 sil	-0.46 glob	0.00%	1.35
	-0.46 prum	1.00%	
92 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
93 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
94 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
95 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
96 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
97 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
98 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
99 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
100 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
101 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
102 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
103 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
104 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
105 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
106 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
107 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
108 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
109 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
110 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
111 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
112 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
113 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
114 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
115 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	



116 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
117 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
118 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
120 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
121 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
122 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
123 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
124 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
125 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
126 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
127 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
130 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
131 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
132 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
133 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
134 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
135 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
136 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
137 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
140 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
141 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
142 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
143 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
144 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
145 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
146 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
147 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
148 sil	-0.80 glob	0.00%	1.35
	-0.80 prum	1.00%	
149 sil	-0.80 glob	0.00%	1.35
	-0.80 prum	1.00%	
150 sil	-0.80 glob	0.00%	1.35
	-0.80 prum	1.00%	



156 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
157 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
158 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
159 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
160 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
161 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
162 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
163 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
164 sil	-0.80 glob	0.00%	1.35
	-0.80 prum	1.00%	
165 sil	-0.80 glob	0.00%	1.35
	-0.80 prum	1.00%	
166 sil	-0.80 glob	0.00%	1.35
	-0.80 prum	1.00%	
172 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
173 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
174 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
175 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
176 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
177 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
178 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
179 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
180 sil	-0.32 glob	0.00%	1.35
	-0.32 prum	1.00%	
181 sil	-0.52 glob	0.00%	1.35
	-0.52 del	1.00%	
182 sil	-0.52 glob	0.00%	1.35
	-0.52 del	1.00%	
183 sil	-0.17 glob	0.00%	1.35
	-0.17 prum	1.00%	
184 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
185 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
186 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
187 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	
188 sil	-0.33 glob	0.00%	1.35
	-0.33 prum	1.00%	



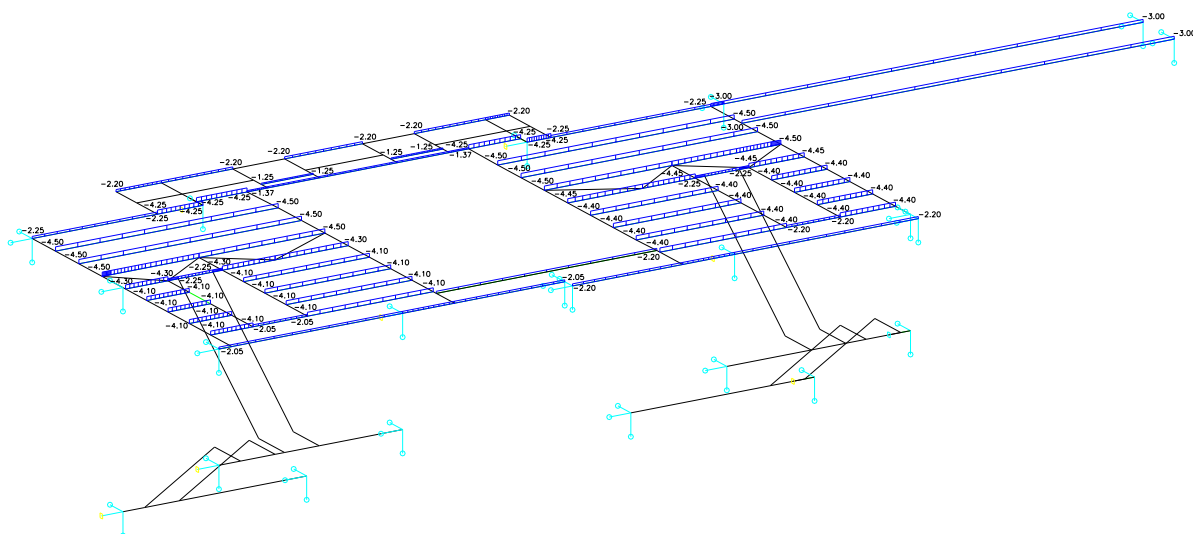
SPOJITE IMPULZY - stav 3 (STALE REZERVA)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil			-2.20	glob	0.00%		1.35
				-2.20	prum	1.00%		
2	sil			-2.20	glob	0.00%		1.35
				-2.20	prum	1.00%		
4	sil			-2.20	glob	0.00%		1.35
				-2.20	prum	1.00%		
6	sil			-2.20	glob	0.00%		1.35
				-2.20	prum	1.00%		
7	sil			-2.20	glob	0.00%		1.35
				-2.20	prum	1.00%		
10	sil			-1.25	glob	0.00%		1.35
				-1.25	prum	1.00%		
12	sil			-1.25	glob	0.00%		1.35
				-1.25	prum	1.00%		
15	sil			-4.25	glob	0.00%		1.35
				-4.25	prum	1.00%		
16	sil			-1.38	glob	0.00%		1.35
				-1.38	prum	1.00%		
17	sil			-1.38	glob	0.00%		1.35
				-1.38	prum	1.00%		
18	sil			-1.38	glob	0.00%		1.35
				-1.38	prum	1.00%		
19	sil			-1.38	glob	0.00%		1.35
				-1.38	prum	1.00%		
20	sil			-1.38	glob	0.00%		1.35
				-1.38	prum	1.00%		
21	sil			-4.25	glob	0.00%		1.35
				-4.25	prum	1.00%		
44	sil			-2.25	glob	0.00%		1.35
				-2.25	prum	1.00%		
45	sil			-4.25	glob	0.00%		1.35
				-4.25	prum	1.00%		
46	sil			-4.50	glob	0.00%		1.35
				-4.50	prum	1.00%		
47	sil			-4.50	glob	0.00%		1.35
				-4.50	prum	1.00%		
48	sil			-4.50	glob	0.00%		1.35
				-4.50	prum	1.00%		



49 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	
50 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
51 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
52 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
53 sil	-4.30 glob	0.00%	1.35
	-4.30 prum	1.00%	
54 sil	-4.30 glob	0.00%	1.35
	-4.30 prum	1.00%	
55 sil	-4.10 glob	0.00%	1.35
	-4.10 prum	1.00%	
56 sil	-4.10 glob	0.00%	1.35
	-4.10 prum	1.00%	
57 sil	-4.10 glob	0.00%	1.35
	-4.10 prum	1.00%	
58 sil	-4.10 glob	0.00%	1.35
	-4.10 prum	1.00%	
59 sil	-4.10 glob	0.00%	1.35
	-4.10 prum	1.00%	
60 sil	-4.10 glob	0.00%	1.35
	-4.10 prum	1.00%	
61 sil	-4.10 glob	0.00%	1.35
	-4.10 prum	1.00%	
62 sil	-2.05 glob	0.00%	1.35
	-2.05 prum	1.00%	
63 sil	-4.10 glob	0.00%	1.35
	-4.10 prum	1.00%	
64 sil	-2.20 glob	0.00%	1.35
	-2.20 prum	1.00%	
66 sil	-2.05 glob	0.00%	1.35
	-2.05 prum	1.00%	
67 sil	-2.05 glob	0.00%	1.35
	-2.05 prum	1.00%	
68 sil	-2.05 glob	0.00%	1.35
	-2.05 prum	1.00%	
69 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
70 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
71 sil	-3.00 glob	0.00%	1.35
	-3.00 prum	1.00%	
72 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	
73 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	
74 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	
75 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	
76 sil	-4.45 glob	0.00%	1.35
	-4.45 prum	1.00%	
77 sil	-4.45 glob	0.00%	1.35
	-4.45 prum	1.00%	
78 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
79 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	



80 sil	-4.40 glob	0.00%	1.35
	-4.40 prum	1.00%	
81 sil	-4.40 glob	0.00%	1.35
	-4.40 prum	1.00%	
82 sil	-4.40 glob	0.00%	1.35
	-4.40 prum	1.00%	
83 sil	-4.40 glob	0.00%	1.35
	-4.40 prum	1.00%	
84 sil	-4.40 glob	0.00%	1.35
	-4.40 prum	1.00%	
85 sil	-4.40 glob	0.00%	1.35
	-4.40 prum	1.00%	
86 sil	-4.40 glob	0.00%	1.35
	-4.40 prum	1.00%	
87 sil	-2.20 glob	0.00%	1.35
	-2.20 prum	1.00%	
88 sil	-4.40 glob	0.00%	1.35
	-4.40 prum	1.00%	
89 sil	-2.20 glob	0.00%	1.35
	-2.20 prum	1.00%	
90 sil	-2.20 glob	0.00%	1.35
	-2.20 prum	1.00%	
91 sil	-2.20 glob	0.00%	1.35
	-2.20 prum	1.00%	
180 sil	-4.30 glob	0.00%	1.35
	-4.30 prum	1.00%	
181 sil	-3.00 glob	0.00%	1.35
	-3.00 prum	1.00%	
182 sil	-3.00 glob	0.00%	1.35
	-3.00 prum	1.00%	
183 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
184 sil	-4.45 glob	0.00%	1.35
	-4.45 prum	1.00%	
185 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	
186 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	
187 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	
188 sil	-4.50 glob	0.00%	1.35
	-4.50 prum	1.00%	



SPOJITE IMPULZY - stav 4 (UZITNE)									
prut	typ	X	Y	Z	sourX	exY	exZ	koef	
1	sil			-6.00	glob	0.00%		1.50	
				-6.00	prum	1.00%			
2	sil			-6.00	glob	0.00%		1.50	
				-6.00	prum	1.00%			
4	sil			-6.00	glob	0.00%		1.50	
				-6.00	prum	1.00%			
6	sil			-6.00	glob	0.00%		1.50	
				-6.00	prum	1.00%			
7	sil			-6.00	glob	0.00%		1.50	
				-6.00	prum	1.00%			
8	sil			-12.00	glob	0.00%		1.50	
				-12.00	prum	1.00%			
9	sil			-12.00	glob	0.00%		1.50	
				-12.00	prum	1.00%			
10	sil			-3.75	glob	0.00%		1.50	
				-3.75	prum	1.00%			
11	sil			-12.00	glob	0.00%		1.50	
				-12.00	prum	1.00%			
12	sil			-3.75	glob	0.00%		1.50	
				-3.75	prum	1.00%			
13	sil			-12.00	glob	0.00%		1.50	
				-12.00	prum	1.00%			
14	sil			-12.00	glob	0.00%		1.50	
				-12.00	prum	1.00%			
15	sil			-12.75	glob	0.00%		1.50	
				-12.75	prum	1.00%			
16	sil			-4.13	glob	0.00%		1.50	
				-4.13	prum	1.00%			
17	sil			-4.13	glob	0.00%		1.50	
				-4.13	prum	1.00%			
18	sil			-4.13	glob	0.00%		1.50	
				-4.13	prum	1.00%			
19	sil			-4.13	glob	0.00%		1.50	
				-4.13	prum	1.00%			
20	sil			-4.13	glob	0.00%		1.50	
				-4.13	prum	1.00%			
21	sil			-12.75	glob	0.00%		1.50	
				-12.75	prum	1.00%			



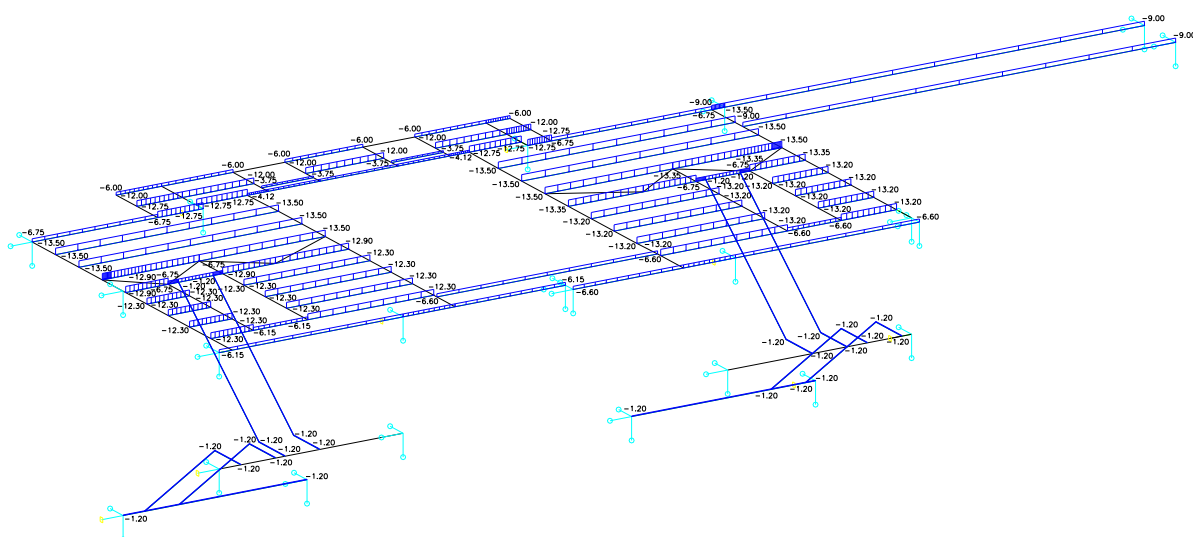
44 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
45 sil	-12.75 glob	0.00%	1.50
	-12.75 prum	1.00%	
46 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
47 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
48 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
49 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
50 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
51 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
52 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
53 sil	-12.90 glob	0.00%	1.50
	-12.90 prum	1.00%	
54 sil	-12.90 glob	0.00%	1.50
	-12.90 prum	1.00%	
55 sil	-12.30 glob	0.00%	1.50
	-12.30 prum	1.00%	
56 sil	-12.30 glob	0.00%	1.50
	-12.30 prum	1.00%	
57 sil	-12.30 glob	0.00%	1.50
	-12.30 prum	1.00%	
58 sil	-12.30 glob	0.00%	1.50
	-12.30 prum	1.00%	
59 sil	-12.30 glob	0.00%	1.50
	-12.30 prum	1.00%	
60 sil	-12.30 glob	0.00%	1.50
	-12.30 prum	1.00%	
61 sil	-12.30 glob	0.00%	1.50
	-12.30 prum	1.00%	
62 sil	-6.15 glob	0.00%	1.50
	-6.15 prum	1.00%	
63 sil	-12.30 glob	0.00%	1.50
	-12.30 prum	1.00%	
64 sil	-6.60 glob	0.00%	1.50
	-6.60 prum	1.00%	
66 sil	-6.15 glob	0.00%	1.50
	-6.15 prum	1.00%	
67 sil	-6.15 glob	0.00%	1.50
	-6.15 prum	1.00%	
68 sil	-6.15 glob	0.00%	1.50
	-6.15 prum	1.00%	
69 sil	-12.75 glob	0.00%	1.50
	-12.75 prum	1.00%	
70 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
71 sil	-9.00 glob	0.00%	1.50
	-9.00 prum	1.00%	
72 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
73 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
74 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	



75 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
76 sil	-13.35 glob	0.00%	1.50
	-13.35 prum	1.00%	
77 sil	-13.35 glob	0.00%	1.50
	-13.35 prum	1.00%	
78 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
79 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
80 sil	-13.20 glob	0.00%	1.50
	-13.20 prum	1.00%	
81 sil	-13.20 glob	0.00%	1.50
	-13.20 prum	1.00%	
82 sil	-13.20 glob	0.00%	1.50
	-13.20 prum	1.00%	
83 sil	-13.20 glob	0.00%	1.50
	-13.20 prum	1.00%	
84 sil	-13.20 glob	0.00%	1.50
	-13.20 prum	1.00%	
85 sil	-13.20 glob	0.00%	1.50
	-13.20 prum	1.00%	
86 sil	-13.20 glob	0.00%	1.50
	-13.20 prum	1.00%	
87 sil	-6.60 glob	0.00%	1.50
	-6.60 prum	1.00%	
88 sil	-13.20 glob	0.00%	1.50
	-13.20 prum	1.00%	
89 sil	-6.60 glob	0.00%	1.50
	-6.60 prum	1.00%	
90 sil	-6.60 glob	0.00%	1.50
	-6.60 prum	1.00%	
91 sil	-6.60 glob	0.00%	1.50
	-6.60 prum	1.00%	
148 sil	-1.20 glob	0.00%	1.50
	-1.20 prum	1.00%	
149 sil	-1.20 glob	0.00%	1.50
	-1.20 prum	1.00%	
150 sil	-1.20 glob	0.00%	1.50
	-1.20 prum	1.00%	
156 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
157 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
158 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
159 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
160 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
161 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
162 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
163 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
164 sil	-1.20 glob	0.00%	1.50
	-1.20 prum	1.00%	
165 sil	-1.20 glob	0.00%	1.50
	-1.20 prum	1.00%	



166 sil	-1.20 glob	0.00%	1.50
	-1.20 prum	1.00%	
172 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
173 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
174 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
175 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
176 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
177 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
178 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
179 sil	-1.20 glob	0.00%	1.50
	-1.20 del	1.00%	
180 sil	-12.90 glob	0.00%	1.50
	-12.90 prum	1.00%	
181 sil	-9.00 glob	0.00%	1.50
	-9.00 prum	1.00%	
182 sil	-9.00 glob	0.00%	1.50
	-9.00 prum	1.00%	
183 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
184 sil	-13.35 glob	0.00%	1.50
	-13.35 prum	1.00%	
185 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
186 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
187 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	
188 sil	-13.50 glob	0.00%	1.50
	-13.50 prum	1.00%	





SPOJITE IMPULZY - stav 5 (TECHNOLOGIE)

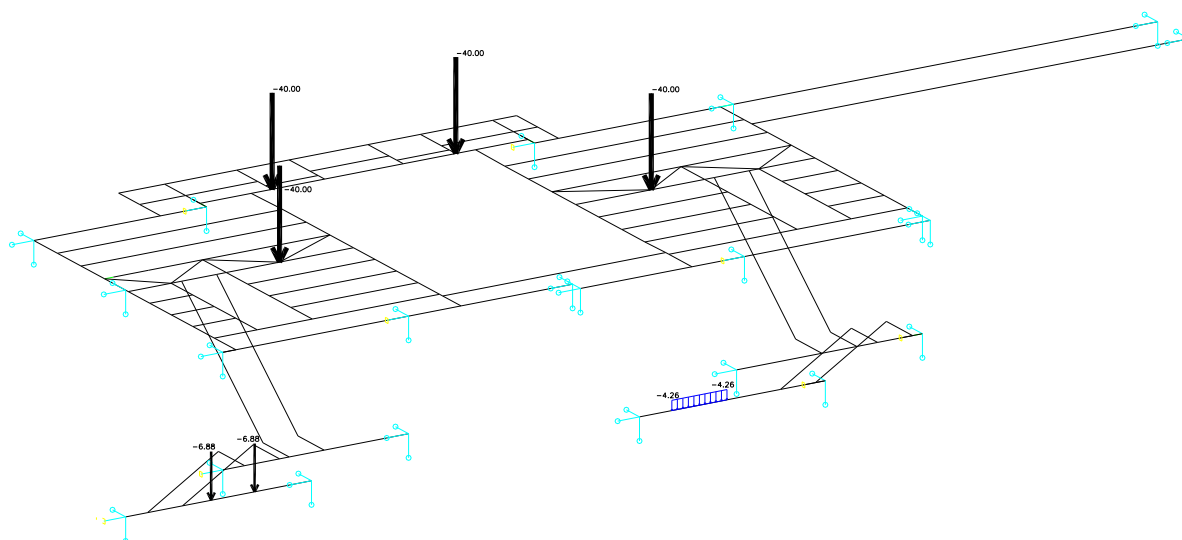
prut	typ	X	Y	Z	sourX	exY	exZ	koef
164	sil			-4.26 glob	0.74m			1.50
				-4.26 prum	2.00m			

OSAMELE IMPULZY - stav 5 (TECHNOLOGIE)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
150	sil			-6.9 glob	0.65m			1.00
	sil			-6.9 glob	1.65m			1.00

ZATIZENI V UZLECH - stav 5 (TECHNOLOGIE)

uzel	Px[kN]	Py[kN]	Pz[kN]	Mx[kNm]	My[kNm]	Mz[kNm]	koef
6			-40.00				1.50
9			-40.00				1.50
88			-40.00				1.50
99			-40.00				1.50

KOMBINACE ZAT. STAVU -
Kombinace c. 1

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0

KOMBINACE ZAT. STAVU -
Kombinace c. 2

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0

KOMBINACE ZAT. STAVU -
Kombinace c. 3

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0



zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.řadek	=	minimum	2.řadek	=	maximum		
síla X								
1	0.000	1	0.0	0.0	-0.6	0.0	0.0	0.0
3	0.000	3	0.0	0.0	21.3	48.1	0.0	0.0
moment X								
2	0.000	3	0.0	0.0	49.7	-16.5	-0.1	0.1
5	0.000	1	0.0	0.0	-4.0	17.8	0.0	0.0
síla Z								
6	1.650	3	0.0	0.0	-47.1	-6.6	0.2	0.2
2	0.000	3	0.0	0.0	49.7	-16.5	-0.1	0.1
moment Y								
2	0.000	3	0.0	0.0	49.7	-16.5	-0.1	0.1
4	0.900	3	0.0	0.0	1.3	79.7	0.0	0.0
síla Y								
7	0.000	3	0.0	0.0	10.1	-3.6	-0.4	0.2
6	0.000	3	0.0	0.0	-25.9	53.7	0.2	-0.2
moment Z								
5	1.200	3	0.0	0.0	-18.7	53.7	0.0	-0.2
7	0.000	3	0.0	0.0	10.1	-3.6	-0.4	0.2

Vyhledáno pro

Prurez : 1

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.řadek	=	minimum	2.řadek	=	maximum		
síla X								
14	0.000	3	0.0	0.0	5.1	0.0	0.0	0.0
8	0.000	1	0.0	0.0	0.3	0.0	0.0	0.0
moment X								
14	0.000	3	0.0	0.0	5.1	0.0	0.0	0.0
8	0.000	3	0.0	0.0	9.7	0.0	0.0	0.0
síla Z								
8	1.050	2	0.0	0.0	-9.7	0.0	0.0	0.0
8	0.000	2	0.0	0.0	9.7	0.0	0.0	0.0
moment Y								
8	1.050	3	0.0	0.0	-9.7	0.0	0.0	0.0
8	0.525	2	0.0	0.0	0.0	2.6	0.0	0.0
síla Y								
8	0.000	3	0.0	0.0	9.7	0.0	0.0	0.0
14	0.000	3	0.0	0.0	5.1	0.0	0.0	0.0
moment Z								
8	1.050	3	0.0	0.0	-9.7	0.0	0.0	0.0
14	0.550	3	0.0	0.0	-5.1	0.0	0.0	0.0

Vyhledáno pro

Prurez : 2

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
------	-----	-------	---	----	----	----	----	----



			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum				
sila X								
11	0.000	1	0.0	0.0	0.6	0.0	0.0	0.0
13	0.000	3	0.0	0.0	15.4	0.0	0.0	0.0
moment X								
9	0.000	1	0.0	0.0	0.6	0.0	0.0	0.0
13	0.000	1	0.0	0.0	0.6	0.0	0.0	0.0
sila Z								
11	1.800	2	0.0	0.0	-16.8	0.0	0.0	0.0
11	0.000	2	0.0	0.0	16.8	0.0	0.0	0.0
moment Y								
13	1.650	3	0.0	0.0	-15.4	0.0	0.0	0.0
11	0.900	2	0.0	0.0	0.0	7.6	0.0	0.0
sila Y								
9	0.000	3	0.0	0.0	15.4	0.0	0.0	0.0
11	0.000	3	0.0	0.0	16.8	0.0	0.0	0.0
moment Z								
9	1.650	3	0.0	0.0	-15.4	0.0	0.0	0.0
11	1.800	3	0.0	0.0	-16.8	0.0	0.0	0.0

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut [m]	Kombi		N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum				
sila X								
10	0.000	1	0.0	0.0	1.2	0.0	0.0	0.0
12	0.000	3	0.0	0.0	4.4	0.0	0.0	0.0
moment X								
10	0.000	1	0.0	0.0	1.2	0.0	0.0	0.0
12	0.000	1	0.0	0.0	1.2	0.0	0.0	0.0
sila Z								
10	1.200	3	0.0	0.0	-4.4	0.0	0.0	0.0
10	0.000	3	0.0	0.0	4.4	0.0	0.0	0.0
moment Y								
12	1.200	1	0.0	0.0	-1.2	0.0	0.0	0.0
10	0.600	3	0.0	0.0	0.0	1.3	0.0	0.0
sila Y								
12	0.000	3	0.0	0.0	4.4	0.0	0.0	0.0
10	0.000	1	0.0	0.0	1.2	0.0	0.0	0.0
moment Z								
12	1.200	3	0.0	0.0	-4.4	0.0	0.0	0.0
10	0.000	1	0.0	0.0	1.2	0.0	0.0	0.0

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut [m]	Kombi		N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum				
sila X								
15	0.000	1	0.0	0.0	185.7	0.0	-0.3	0.0
18	0.000	3	0.3	0.1	15.3	590.4	-0.3	-1.1
moment X								



21	0.000	1	0.0	0.0	-180.5	222.8	0.7	-0.9
15	0.000	3	0.1	0.3	430.2	0.0	-0.5	0.0
sila Z								
21	1.200	3	0.2	0.0	-447.1	0.0	1.8	0.0
15	0.000	3	0.1	0.3	430.2	0.0	-0.5	0.0
moment Y								
15	0.000	1	0.0	0.0	185.7	0.0	-0.3	0.0
18	1.800	3	0.3	0.1	-4.2	600.4	-0.3	-1.7
sila Y								
20	0.000	3	0.3	0.1	-103.7	571.2	-0.5	-1.9
21	0.000	3	0.2	0.0	-414.6	517.0	1.8	-2.2
moment Z								
20	0.450	3	0.3	0.1	-108.5	523.4	-0.5	-2.2
21	1.200	2	0.1	0.0	-381.4	0.0	1.5	0.0

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
43	0.000	3	-0.4	0.0	-2.5	2.2	0.0	0.0
34	0.000	3	0.0	0.0	-9.2	6.2	0.0	0.0
moment X								
22	0.000	3	-0.1	0.0	5.4	0.0	0.0	0.0
28	0.000	1	0.0	0.0	-0.1	0.4	0.0	0.0
sila Z								
35	0.250	3	0.0	0.0	-13.7	0.0	0.0	0.0
30	0.000	3	0.0	0.0	7.8	0.0	0.0	0.0
moment Y								
23	0.800	3	-0.1	0.0	-5.3	0.0	0.0	0.0
30	0.800	3	0.0	0.0	7.7	6.2	0.0	0.0
sila Y								
28	0.000	3	-0.1	0.0	-8.3	5.7	0.0	0.0
37	0.000	3	-0.3	0.0	-8.3	5.7	0.0	0.0
moment Z								
34	0.300	3	0.0	0.0	-9.2	3.4	0.0	0.0
32	0.000	3	0.0	0.0	-13.6	3.4	0.0	0.0

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
24	0.000	1	0.1	-0.9	-17.7	0.0	0.0	0.0
41	0.000	3	2.4	3.0	-528.0	-90.6	-0.2	0.0
moment X								
24	0.000	3	0.2	-3.7	-68.6	0.0	0.0	0.0
39	0.000	3	0.6	3.0	-57.2	0.0	0.0	0.0
sila Z								
41	0.250	3	2.4	3.0	-528.6	-222.7	-0.2	0.0
39	0.000	1	0.2	0.8	-14.9	0.0	0.0	0.0
moment Y								



26	0.250	3	0.8	-3.7	-527.6	-240.7	0.2	0.0
24	0.000	1	0.1	-0.9	-17.7	0.0	0.0	0.0
sila Y								
41	0.000	3	2.4	3.0	-528.0	-90.6	-0.2	0.0
26	0.000	3	0.8	-3.7	-527.0	-108.8	0.2	0.0
moment Z								
41	0.250	3	2.4	3.0	-528.6	-222.7	-0.2	0.0
26	0.250	3	0.8	-3.7	-527.6	-240.7	0.2	0.0

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
44	0.000	3	0.0	0.0	29.3	0.0	0.0	0.0
45	0.000	3	0.0	0.0	-16.1	26.9	-0.1	0.0
moment X								
91	0.000	1	0.0	0.0	8.3	0.0	0.0	0.0
45	0.000	3	0.0	0.0	-16.1	26.9	-0.1	0.0
sila Z								
45	1.050	3	0.0	0.0	-42.3	-3.7	-0.1	0.0
44	0.000	3	0.0	0.0	29.3	0.0	0.0	0.0
moment Y								
45	1.050	3	0.0	0.0	-42.3	-3.7	-0.1	0.0
91	2.125	3	0.0	0.0	0.0	30.5	0.0	0.0
sila Y								
45	0.000	3	0.0	0.0	-16.1	26.9	-0.1	0.0
44	0.000	3	0.0	0.0	29.3	0.0	0.0	0.0
moment Z								
45	1.050	3	0.0	0.0	-42.3	-3.7	-0.1	0.0
44	2.900	3	0.0	0.0	-10.7	26.9	0.0	0.0

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
72	0.000	3	-0.4	0.0	73.1	0.0	0.0	0.0
73	0.000	3	2.0	0.0	73.1	0.0	0.0	0.0
moment X								
47	0.000	3	0.3	0.0	68.9	0.0	0.0	0.0
73	0.000	1	0.8	0.0	19.4	0.0	0.0	0.0
sila Z								
72	5.470	3	-0.4	0.0	-73.1	0.0	0.0	0.0
72	0.000	3	-0.4	0.0	73.1	0.0	0.0	0.0
moment Y								
73	5.470	1	0.8	0.0	-19.4	0.0	0.0	0.0
72	2.735	3	-0.4	0.0	0.0	100.0	0.0	0.0
sila Y								
73	0.000	3	2.0	0.0	73.1	0.0	0.0	0.0
47	0.000	1	0.1	0.0	18.3	0.0	0.0	0.0
moment Z								



73	5.470	3	2.0	0.0	-73.1	0.0	0.0	0.0
46	0.000	1	0.0	0.0	18.3	0.0	0.0	0.0

Vyhledano pro

Prurez : 9

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	=	minimum	2.radek	=	maximum		
síla X								
49	0.000	1	1.1	0.0	16.9	3.5	0.0	0.0
75	0.000	3	4.9	0.0	-67.2	15.8	0.1	0.0
moment X								
49	0.000	3	1.7	0.0	63.6	13.2	0.0	0.0
74	0.000	1	1.9	0.0	-12.2	16.2	0.0	0.0
síla Z								
75	0.225	3	4.9	0.0	-73.2	0.0	0.1	0.0
187	0.000	3	3.8	0.0	73.2	0.0	0.0	0.0
moment Y								
75	0.225	3	4.9	0.0	-73.2	0.0	0.1	0.0
188	0.000	3	4.9	0.0	-5.8	99.5	0.1	-0.3
síla Y								
187	0.000	3	3.8	0.0	73.2	0.0	0.0	0.0
74	0.000	3	4.9	0.0	-45.8	61.0	0.1	-0.1
moment Z								
187	2.950	3	3.8	0.0	-5.7	99.5	0.0	-0.3
75	0.225	3	4.9	0.0	-73.2	0.0	0.1	0.0

Vyhledano pro

Prurez : 10

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	=	minimum	2.radek	=	maximum		
síla X								
183	0.000	3	-9.2	0.0	-74.8	172.3	5.9	-1.3
184	0.000	3	4.1	0.0	-104.2	155.5	0.0	0.0
moment X								
76	0.000	3	0.5	0.0	144.9	0.0	0.0	0.0
54	0.000	3	-1.2	0.0	-89.1	187.8	0.0	0.0
síla Z								
184	1.280	3	4.1	0.0	-138.7	0.0	0.0	0.0
76	0.000	3	0.5	0.0	144.9	0.0	0.0	0.0
moment Y								
54	1.690	3	-1.2	0.0	-133.1	0.0	0.0	0.0
77	1.220	3	-9.2	0.0	5.4	236.9	-0.3	-0.4
síla Y								
78	0.000	3	-9.2	0.0	-53.4	236.8	-5.4	-0.4
183	0.000	3	-9.2	0.0	-74.8	172.3	5.9	-1.3
moment Z								
79	0.000	3	-9.2	0.0	-60.0	224.8	0.4	-1.6
51	0.000	3	-5.1	0.0	73.8	136.4	-2.8	0.7

Vyhledano pro

Prurez : 11

Sled kombinaci : 1..3



Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
síla X								
55	0.000	3	0.0	0.0	11.7	0.0	0.0	0.0
57	0.000	3	0.0	0.0	11.7	0.0	0.0	0.0
moment X								
83	0.000	1	0.0	0.0	4.2	0.0	0.0	0.0
57	0.000	3	0.0	0.0	11.7	0.0	0.0	0.0
síla Z								
83	1.280	3	0.0	0.0	-16.4	0.0	0.0	0.0
83	0.000	3	0.0	0.0	16.4	0.0	0.0	0.0
moment Y								
55	0.000	1	0.0	0.0	3.0	0.0	0.0	0.0
83	0.640	3	0.0	0.0	0.0	5.3	0.0	0.0
síla Y								
85	0.000	3	0.0	0.0	16.4	0.0	0.0	0.0
57	0.000	3	0.0	0.0	11.7	0.0	0.0	0.0
moment Z								
85	1.280	3	0.0	0.0	-16.4	0.0	0.0	0.0
57	0.980	3	0.0	0.0	-11.7	0.0	0.0	0.0

Vyhledano pro

Prurez : 12

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
síla X								
60	0.000	3	0.0	0.0	35.1	0.0	0.0	0.0
81	0.000	3	0.0	0.0	38.1	0.0	0.0	0.0
moment X								
80	0.000	3	0.0	0.0	38.1	0.0	0.0	0.0
58	0.000	3	0.0	0.0	35.1	0.0	0.0	0.0
síla Z								
80	2.950	3	0.0	0.0	-38.1	0.0	0.0	0.0
80	0.000	3	0.0	0.0	38.1	0.0	0.0	0.0
moment Y								
58	2.910	1	0.0	0.0	-9.0	0.0	0.0	0.0
80	1.475	3	0.0	0.0	0.0	28.1	0.0	0.0
síla Y								
80	0.000	3	0.0	0.0	38.1	0.0	0.0	0.0
58	0.000	3	0.0	0.0	35.1	0.0	0.0	0.0
moment Z								
80	2.950	3	0.0	0.0	-38.1	0.0	0.0	0.0
58	2.910	3	0.0	0.0	-35.1	0.0	0.0	0.0

Vyhledano pro

Prurez : 13

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
síla X								



87	0.000	3	-0.9	0.0	-36.2	179.8	0.0	-0.5
63	0.000	1	0.0	0.0	-4.4	41.7	0.0	-0.2
moment X								
88	0.000	3	-0.9	0.0	-79.9	124.0	0.4	-0.6
61	0.000	3	-0.1	0.0	99.7	0.0	0.3	0.0
sila Z								
88	1.280	3	-0.9	0.0	-113.8	0.0	0.4	0.0
86	0.000	3	-0.9	0.0	100.2	0.0	-0.2	0.0
moment Y								
88	1.280	1	-0.4	0.0	-32.3	0.0	0.2	0.0
86	2.930	3	-0.9	0.0	22.6	179.8	-0.2	-0.5
sila Y								
62	0.000	3	0.0	0.0	56.4	85.9	-0.5	0.2
88	0.000	3	-0.9	0.0	-79.9	124.0	0.4	-0.6
moment Z								
88	0.000	3	-0.9	0.0	-79.9	124.0	0.4	-0.6
61	0.980	3	-0.1	0.0	75.5	85.9	0.3	0.2

Vyhledano pro

Prurez : 14

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
64	0.000	3	-0.9	0.0	34.5	0.0	0.0	0.0
64	0.000	1	-0.4	0.0	10.0	0.0	0.0	0.0
moment X								
64	0.000	1	-0.4	0.0	10.0	0.0	0.0	0.0
64	0.000	3	-0.9	0.0	34.5	0.0	0.0	0.0
sila Z								
64	5.100	3	-0.9	0.0	-34.5	0.0	0.0	0.0
64	0.000	3	-0.9	0.0	34.5	0.0	0.0	0.0
moment Y								
64	5.100	2	-0.7	0.0	-27.7	0.0	0.0	0.0
64	2.550	3	-0.9	0.0	0.0	44.0	0.0	0.0
sila Y								
64	0.000	3	-0.9	0.0	34.5	0.0	0.0	0.0
64	0.000	1	-0.4	0.0	10.0	0.0	0.0	0.0
moment Z								
64	5.100	3	-0.9	0.0	-34.5	0.0	0.0	0.0
64	0.000	1	-0.4	0.0	10.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 15

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
67	0.000	3	-0.4	0.0	272.0	-133.6	-1.0	0.5
68	0.000	3	0.2	0.0	-55.1	184.6	0.3	-0.7
moment X								
65	0.000	1	0.0	0.0	-23.7	0.0	-0.3	0.0
65	0.000	1	0.0	0.0	-23.7	0.0	-0.3	0.0
sila Z								



68	2.550	3	0.2	0.0	-89.6	0.0	0.3	0.0
67	0.000	3	-0.4	0.0	272.0	-133.6	-1.0	0.5
moment Y								
66	4.250	3	0.0	0.0	-65.7	-133.6	0.1	0.5
68	0.000	3	0.2	0.0	-55.1	184.6	0.3	-0.7
sila Y								
67	0.000	3	-0.4	0.0	272.0	-133.6	-1.0	0.5
68	0.000	3	0.2	0.0	-55.1	184.6	0.3	-0.7
moment Z								
67	1.200	3	-0.4	0.0	255.8	183.1	-1.0	-0.7
67	0.000	3	-0.4	0.0	272.0	-133.6	-1.0	0.5

Vyhledano pro

Prurez : 16

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
89	0.000	3	0.0	0.0	134.1	0.0	-0.3	0.0
90	0.000	3	0.0	0.0	-234.3	291.6	0.7	-0.8
moment X								
89	0.000	1	0.0	0.0	45.5	0.0	-0.1	0.0
89	0.000	1	0.0	0.0	45.5	0.0	-0.1	0.0
sila Z								
90	1.200	3	0.0	0.0	-251.7	0.0	0.7	0.0
89	0.000	3	0.0	0.0	134.1	0.0	-0.3	0.0
moment Y								
89	0.000	1	0.0	0.0	45.5	0.0	-0.1	0.0
89	2.550	3	0.0	0.0	97.3	295.1	-0.3	-0.8
sila Y								
89	0.000	3	0.0	0.0	134.1	0.0	-0.3	0.0
90	0.000	3	0.0	0.0	-234.3	291.6	0.7	-0.8
moment Z								
89	2.550	3	0.0	0.0	97.3	295.1	-0.3	-0.8
90	1.200	3	0.0	0.0	-251.7	0.0	0.7	0.0

Vyhledano pro

Prurez : 17

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
92	0.000	3	-0.5	0.0	75.2	0.0	0.0	0.0
95	0.000	3	1.6	0.0	-134.5	13.0	-0.3	0.2
moment X								
95	0.000	3	1.6	0.0	-134.5	13.0	-0.3	0.2
93	0.000	1	-0.3	0.0	1.3	18.1	0.0	0.0
sila Z								
95	0.800	3	1.6	0.0	-135.4	-95.0	-0.3	0.0
92	0.000	3	-0.5	0.0	75.2	0.0	0.0	0.0
moment Y								
95	0.800	3	1.6	0.0	-135.4	-95.0	-0.3	0.0
94	0.000	3	-0.5	0.0	-64.6	71.5	0.2	0.0
sila Y								



95	0.000	3	1.6	0.0	-134.5	13.0	-0.3	0.2
94	0.000	3	-0.5	0.0	-64.6	71.5	0.2	0.0
moment Z								
95	0.800	3	1.6	0.0	-135.4	-95.0	-0.3	0.0
95	0.000	3	1.6	0.0	-134.5	13.0	-0.3	0.2

Vyhledano pro

Prurez : 18

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
101	0.000	1	0.3	0.0	-22.8	19.1	0.0	0.0
96	0.000	3	1.2	0.0	193.2	-95.0	-0.2	0.0
moment X								
98	0.000	3	0.9	0.0	49.2	-25.3	0.0	0.0
97	0.000	1	0.3	0.0	18.5	-20.9	0.0	0.0
sila Z								
101	0.820	3	0.6	0.0	-77.7	0.0	0.0	0.0
96	0.000	3	1.2	0.0	193.2	-95.0	-0.2	0.0
moment Y								
96	0.000	3	1.2	0.0	193.2	-95.0	-0.2	0.0
100	0.820	3	0.9	0.0	22.9	63.4	0.0	0.0
sila Y								
96	0.000	3	1.2	0.0	193.2	-95.0	-0.2	0.0
97	0.000	3	0.9	0.0	61.8	-75.7	0.0	0.0
moment Z								
96	0.100	3	1.2	0.0	193.0	-75.7	-0.2	0.0
101	0.000	3	0.6	0.0	-76.8	63.3	0.0	0.0

Vyhledano pro

Prurez : 19

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
102	0.000	3	-0.8	0.0	19.1	0.0	0.0	0.0
109	0.000	3	0.7	0.0	-53.3	44.0	0.0	0.0
moment X								
107	0.000	3	0.7	0.0	18.3	44.0	0.0	0.0
134	0.000	1	0.1	0.0	7.8	0.0	0.0	0.0
sila Z								
133	0.880	3	0.2	0.0	-58.8	0.0	0.0	0.0
130	0.000	3	0.2	0.0	58.8	0.0	0.0	0.0
moment Y								
133	0.880	3	0.2	0.0	-58.8	0.0	0.0	0.0
131	0.880	3	0.2	0.0	19.1	68.5	0.0	0.0
sila Y								
102	0.000	3	-0.8	0.0	19.1	0.0	0.0	0.0
134	0.000	3	0.4	0.0	26.3	0.0	0.0	0.0
moment Z								
102	0.820	3	-0.8	0.0	18.3	15.3	0.0	0.0
135	0.000	3	0.4	0.0	9.0	22.8	0.0	0.0



Vyhledano pro

Prurez : 20

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
120	0.000	3	-2.4	-6.4	306.0	0.0	-0.1	0.0
119	0.000	3	1.3	-1.5	-309.2	217.0	-0.5	0.4
moment X								
120	0.000	3	-2.4	-6.4	306.0	0.0	-0.1	0.0
127	0.000	3	0.8	11.8	-192.2	465.2	0.0	0.0
síla Z								
129	0.880	3	1.0	3.5	-331.7	0.0	0.0	0.0
120	0.000	3	-2.4	-6.4	306.0	0.0	-0.1	0.0
moment Y								
129	0.880	3	1.0	3.5	-331.7	0.0	0.0	0.0
124	0.000	3	0.8	-0.4	-69.9	761.0	0.0	0.2
síla Y								
113	0.000	3	1.1	-1.5	62.9	622.4	-1.0	0.4
122	0.000	3	-2.3	-0.4	153.6	555.3	1.5	-0.6
moment Z								
122	0.000	3	-2.3	-0.4	153.6	555.3	1.5	-0.6
123	0.000	3	0.8	-0.4	77.7	692.2	-0.5	0.7

Vyhledano pro

Prurez : 21

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
141	0.000	3	-0.3	0.0	110.3	515.4	-2.0	0.0
147	0.000	3	7.7	0.0	-280.1	163.0	0.4	-0.2
moment X								
138	0.000	3	-0.3	0.0	357.1	0.0	-0.1	0.0
147	0.000	2	6.1	0.0	-228.4	132.9	0.3	-0.2
síla Z								
147	0.580	3	7.7	0.0	-281.8	0.0	0.4	0.0
138	0.000	3	-0.3	0.0	357.1	0.0	-0.1	0.0
moment Y								
147	0.580	3	7.7	0.0	-281.8	0.0	0.4	0.0
143	0.000	3	7.2	0.0	-106.8	643.5	-0.5	1.4
síla Y								
141	0.000	3	-0.3	0.0	110.3	515.4	-2.0	0.0
142	0.000	3	7.2	0.0	34.5	613.6	3.6	-1.9
moment Z								
141	0.900	3	-0.3	0.0	107.7	613.6	-2.0	-1.9
143	0.000	3	7.2	0.0	-106.8	643.5	-0.5	1.4

Vyhledano pro

Prurez : 22

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
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			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim		2.radek = maximum					
sila X								
150	0.000	1	0.0	0.0	6.4	12.4	-0.3	0.9
148	0.000	1	0.0	0.0	12.2	0.0	0.0	0.0
moment X								
148	0.000	1	0.0	0.0	12.2	0.0	0.0	0.0
148	0.000	1	0.0	0.0	12.2	0.0	0.0	0.0
sila Z								
150	2.950	2	0.0	0.0	-17.4	0.0	-0.3	0.0
148	0.000	2	0.0	0.0	23.3	0.0	-1.6	0.0
moment Y								
148	0.000	3	0.0	0.0	23.2	0.0	-1.4	0.0
150	0.650	2	0.0	0.0	4.0	24.3	-0.3	0.7
sila Y								
148	0.000	2	0.0	0.0	23.3	0.0	-1.6	0.0
149	0.000	3	0.0	0.0	13.4	11.2	2.4	-0.7
moment Z								
149	0.000	2	0.0	0.0	13.5	11.3	2.1	-0.8
149	0.800	3	0.0	0.0	10.7	20.8	2.4	1.2

Vyhledano pro

Prurez : 23

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
164	0.000	3	0.0	0.0	13.5	0.0	0.7	0.0
166	0.000	3	0.0	0.0	-20.3	4.7	2.5	-0.6
moment X								
164	0.000	1	0.0	0.0	8.7	0.0	0.3	0.0
164	0.000	1	0.0	0.0	8.7	0.0	0.3	0.0
sila Z								
166	0.225	2	0.0	0.0	-21.2	0.0	2.8	0.0
164	0.000	2	0.0	0.0	13.6	0.0	0.6	0.0
moment Y								
166	0.225	3	0.0	0.0	-21.0	0.0	2.5	0.0
164	1.613	2	0.0	0.0	2.9	15.4	0.6	1.0
sila Y								
165	0.000	3	0.0	0.0	-8.3	12.3	-3.7	2.4
166	0.000	2	0.0	0.0	-20.5	4.7	2.8	-0.6
moment Z								
165	0.800	2	0.0	0.0	-11.0	4.7	-3.3	-0.6
165	0.000	3	0.0	0.0	-8.3	12.3	-3.7	2.4

Vyhledano pro

Prurez : 24

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim			2.radek = maximum				
sila X								
171	0.000	3	0.0	0.0	-19.6	4.4	-8.7	2.0
153	0.000	3	0.0	0.0	5.0	17.9	1.0	-0.4
moment X								



151	0.000	1	0.0	0.0	6.3	0.0	0.7	0.0
151	0.000	1	0.0	0.0	6.3	0.0	0.7	0.0
sila Z								
171	0.225	3	0.0	0.0	-19.7	0.0	-8.7	0.0
151	0.000	3	0.0	0.0	16.2	0.0	2.0	0.0
moment Y								
171	0.225	3	0.0	0.0	-19.7	0.0	-8.7	0.0
168	0.800	3	0.0	0.0	0.7	22.5	-1.4	7.3
sila Y								
171	0.000	3	0.0	0.0	-19.6	4.4	-8.7	2.0
154	0.000	3	0.0	0.0	1.1	19.0	5.1	-0.2
moment Z								
152	0.800	2	0.0	0.0	11.8	17.4	-1.9	-0.6
167	1.950	3	0.0	0.0	10.8	21.8	4.3	8.4

Vyhledano pro

Prurez : 25

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
174	0.000	3	-10.7	0.0	3.8	0.0	0.0	0.0
160	0.000	3	9.0	0.0	4.8	0.0	0.0	0.0
moment X								
161	0.000	3	4.1	0.0	-1.2	2.5	0.0	0.0
175	0.000	3	-6.2	0.0	0.5	0.8	0.0	0.0
sila Z								
163	1.000	3	-7.2	0.0	-10.5	0.0	0.0	0.0
162	0.000	3	-4.0	0.0	6.5	0.0	0.0	0.0
moment Y								
156	0.000	1	-2.6	0.0	1.3	0.0	0.0	0.0
163	0.000	3	-7.2	0.0	-7.9	9.2	0.0	0.0
sila Y								
179	0.000	3	-5.6	0.0	-7.0	8.3	0.0	0.0
175	0.000	3	-6.2	0.0	0.5	0.8	0.0	0.0
moment Z								
175	0.000	3	-6.2	0.0	0.5	0.8	0.0	0.0
174	3.398	3	-5.2	0.0	-3.3	0.8	0.0	0.0

Vyhledano pro

Prurez : 26

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim	2.radek = maximum				
sila X								
182	0.000	3	-0.3	0.0	95.9	0.0	0.0	0.0
181	0.000	1	0.0	0.0	29.5	0.0	0.0	0.0
moment X								
182	0.000	3	-0.3	0.0	95.9	0.0	0.0	0.0
181	0.000	2	0.0	0.0	75.3	0.0	0.0	0.0
sila Z								
182	10.000	3	-0.3	0.0	-95.9	0.0	0.0	0.0
182	0.000	3	-0.3	0.0	95.9	0.0	0.0	0.0
moment Y								



181	9.700	3	0.0	0.0	-93.0	0.0	0.0	0.0
182	5.000	3	-0.3	0.0	0.0	239.7	0.0	0.0
sila Y								
182	0.000	3	-0.3	0.0	95.9	0.0	0.0	0.0
181	0.000	3	0.0	0.0	93.0	0.0	0.0	0.0
moment Z								
182	10.000	3	-0.3	0.0	-95.9	0.0	0.0	0.0
181	9.700	3	0.0	0.0	-93.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 27

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
71	0.000	3	-0.1	0.0	-361.9	109.4	0.2	0.0
69	0.000	3	0.0	0.0	65.3	-3.0	0.3	0.0
moment X								
71	0.000	2	0.0	0.0	-294.6	89.0	0.2	0.0
71	0.000	1	0.0	0.0	-116.6	35.2	0.0	0.0
sila Z								
71	0.300	3	-0.1	0.0	-367.5	0.0	0.2	0.0
69	0.000	3	0.0	0.0	65.3	-3.0	0.3	0.0
moment Y								
69	0.000	3	0.0	0.0	65.3	-3.0	0.3	0.0
70	3.700	3	0.0	0.0	-4.8	109.4	0.0	0.0
sila Y								
70	0.000	3	0.0	0.0	48.2	29.1	0.0	0.0
69	0.000	3	0.0	0.0	65.3	-3.0	0.3	0.0
moment Z								
69	0.000	3	0.0	0.0	65.3	-3.0	0.3	0.0
69	0.550	3	0.0	0.0	51.2	29.1	0.3	0.0

Vyhledano pro

Prurez : 28

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
197	0.000	3	-12.9	0.0	0.0	0.0	0.0	0.0
195	0.000	3	4.7	0.0	0.0	0.0	0.0	0.0
moment X								
192	0.000	3	-3.0	0.0	0.0	0.0	0.0	0.0
194	0.000	3	-6.6	0.1	0.0	0.0	0.0	0.0
sila Z								
194	1.950	2	-5.3	0.0	0.0	0.0	0.0	0.0
194	0.000	1	-2.6	0.0	0.0	0.0	0.0	0.0
moment Y								
190	1.548	3	3.8	0.0	0.0	0.0	0.0	0.0
196	1.532	3	3.3	0.0	0.0	0.0	0.0	0.0
sila Y								
190	0.000	3	3.8	0.0	0.0	0.0	0.0	0.0
197	0.000	3	-12.9	0.0	0.0	0.0	0.0	0.0
moment Z								



194	1.950	3	-6.6	0.1	0.0	0.0	0.0	0.0
197	1.565	3	-12.9	0.0	0.0	0.0	0.0	0.0

Vyhledáno pro

Průřez : 29

Sled kombinací : 1..3

Vypočtové reakce v podporách

Uzel	ZS	Px kN	Py kN	Pz kN	Mx kN.m	My kN.m	Mz kN.m
1	1	0.0	0.0	2.9	0.0	0.0	0.0
	2	0.0	0.0	3.0	0.0	0.0	0.0
	3	0.2	0.0	23.1	0.0	0.0	0.0
	4	0.2	0.0	78.0	0.0	0.0	0.0
	5	0.2	0.0	-0.3	0.0	0.0	0.0
3	1	0.0	0.0	34.1	0.0	15.1	0.0
	2	0.0	0.0	14.5	0.0	7.7	0.0
	3	0.2	0.0	89.3	0.0	35.4	0.0
	4	0.3	0.0	360.1	0.0	165.8	0.0
	5	0.2	0.0	80.9	0.0	20.2	0.0
12	1	0.0	0.0	36.9	0.0	14.6	0.0
	2	0.0	0.0	15.2	0.0	6.9	0.0
	3	0.4	0.0	95.7	0.0	33.3	0.0
	4	1.3	0.1	373.4	0.0	150.9	0.0
	5	0.3	0.0	82.1	0.0	20.4	0.0
15	1	0.0	0.0	28.4	0.0	0.0	0.0
	2	0.0	0.0	14.5	0.0	0.0	0.0
	3	0.0	0.0	95.7	0.0	0.0	0.0
	4	0.1	0.0	322.3	0.0	0.0	0.0
	5	0.0	0.0	9.2	0.0	0.0	0.0
39	1	-0.1	0.0	12.5	0.0	0.0	0.0
	2	-0.3	0.0	11.1	0.0	0.0	0.0
	3	0.4	0.0	65.8	0.0	0.0	0.0
	4	0.0	0.0	226.6	0.0	0.0	0.0
	5	0.6	0.0	19.2	0.0	0.0	0.0
46	1	0.0	0.0	4.4	0.0	0.0	0.0
	2	0.0	0.0	3.2	0.0	0.0	0.0
	3	0.1	0.0	15.0	0.0	0.0	0.0
	4	0.3	0.0	50.0	0.0	0.0	0.0
	5	0.1	0.0	-1.3	0.0	0.0	0.0
47	1	0.0	0.0	21.1	0.0	0.0	0.0
	2	0.0	0.0	10.5	0.0	0.0	0.0
	3	0.3	0.0	68.2	0.0	0.0	0.0
	4	0.6	0.2	228.5	0.0	0.0	0.0
	5	0.3	0.0	16.3	0.0	0.0	0.0
49	1	0.0	0.0	5.6	0.0	0.0	0.0
	2	0.0	0.0	2.7	0.0	0.0	0.0
	3	0.0	0.0	18.0	0.0	0.0	0.0
	4	0.2	0.1	60.5	0.0	0.0	0.0
	5	0.0	0.0	4.6	0.0	0.0	0.0
50	1	0.0	0.0	8.1	0.0	0.0	0.0
	2	0.0	0.0	4.0	0.0	0.0	0.0
	3	0.0	0.0	27.2	0.0	0.0	0.0
	4	0.2	0.0	91.3	0.0	0.0	0.0
	5	0.0	0.0	6.2	0.0	0.0	0.0
52	1	0.0	0.0	15.1	0.0	0.0	0.0
	2	0.0	0.0	8.5	0.0	0.0	0.0
	3	0.1	0.0	57.4	0.0	0.0	0.0
	4	0.4	0.0	192.3	0.0	0.0	0.0
	5	0.1	0.0	12.8	0.0	0.0	0.0



53	1		0.0	0.0	0.6	0.0	0.0	0.0
	2		0.0	0.0	1.3	0.0	0.0	0.0
	3		0.0	0.0	6.3	0.0	0.0	0.0
	4		0.0	0.0	21.0	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
81	1		0.3	0.0	17.5	0.0	0.0	0.0
	2		0.0	0.0	9.2	0.0	0.0	0.0
	3		1.7	0.0	57.5	0.0	0.0	0.0
	4		4.9	-0.3	194.8	0.0	0.0	0.0
	5		1.0	0.0	8.6	0.0	0.0	0.0
111	1		0.0	0.0	6.4	0.0	0.0	0.0
	2		0.0	0.0	3.4	0.0	0.0	0.0
	3		0.0	0.0	19.6	0.0	0.0	0.0
	4		0.0	0.0	65.5	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
112	1		0.0	0.0	6.6	0.0	0.0	0.0
	2		0.0	0.0	3.5	0.0	0.0	0.0
	3		0.0	0.0	20.3	0.0	0.0	0.0
	4		0.0	-0.2	67.5	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
113	1		0.3	0.0	1.9	0.0	0.0	0.0
	2		0.7	0.0	4.8	0.0	0.0	0.0
	3		-0.3	0.0	-0.1	0.0	0.0	0.0
	4		1.3	0.0	11.0	0.0	0.0	0.0
	5		-0.6	0.0	5.5	0.0	0.0	0.0
116	1		0.0	0.0	1.1	0.0	0.0	0.0
	2		0.0	0.0	2.9	0.0	0.0	0.0
	3		-0.1	0.0	0.0	0.0	0.0	0.0
	4		-0.1	0.0	5.5	0.0	0.0	0.0
	5		-0.3	0.0	7.8	0.0	0.0	0.0
117	1		-0.1	0.0	2.2	0.0	0.0	0.0
	2		-0.3	0.0	3.0	0.0	0.0	0.0
	3		-0.2	0.0	0.4	0.0	0.0	0.0
	4		-1.4	0.0	10.0	0.0	0.0	0.0
	5		0.0	0.0	0.7	0.0	0.0	0.0
122	1		0.0	0.0	1.7	0.0	0.0	0.0
	2		0.1	0.0	1.7	0.0	0.0	0.0
	3		-0.5	0.0	0.5	0.0	0.0	0.0
	4		-1.1	0.0	6.3	0.0	0.0	0.0
	5		-0.5	0.0	0.6	0.0	0.0	0.0
127	1		0.0	0.0	0.7	0.0	0.0	0.0
	2		0.0	0.0	2.7	0.0	0.0	0.0
	3		-0.1	0.0	0.0	0.0	0.0	0.0
	4		-0.4	0.0	4.8	0.0	0.0	0.0
	5		-0.1	0.0	5.4	0.0	0.0	0.0
130	1		0.3	0.0	1.7	0.0	0.0	0.0
	2		1.0	0.0	5.2	0.0	0.0	0.0
	3		-0.4	0.0	-0.2	0.0	0.0	0.0
	4		1.9	0.0	11.9	0.0	0.0	0.0
	5		-0.4	0.0	2.4	0.0	0.0	0.0
131	1		-0.2	0.0	1.7	0.0	0.0	0.0
	2		0.0	0.0	1.7	0.0	0.0	0.0
	3		-0.9	0.0	0.7	0.0	0.0	0.0
	4		-2.7	0.0	7.0	0.0	0.0	0.0
	5		-0.7	0.0	0.6	0.0	0.0	0.0
136	1		-0.6	0.0	2.4	0.0	0.0	0.0
	2		-0.9	0.0	3.2	0.0	0.0	0.0
	3		-1.1	0.0	1.1	0.0	0.0	0.0
	4		-5.9	0.0	12.5	0.0	0.0	0.0
	5		-0.4	0.0	0.7	0.0	0.0	0.0



Normove deformace v uzlech							
Uzel	Kombi	X	Y	Z	Rx	Ry	Rz
		mm	mm	mm	rad	rad	rad
extremy		1.radek = minimim		2.radek = maximum			
posuv X							
101	3	-0.5	0.0	-25.6	0.0019	0.0010	0.0000
137	3	11.0	0.0	-11.0	0.0000	-0.0082	0.0000
posuv Y							
140	3	1.8	-2.0	-1.4	0.0035	-0.0009	0.0020
123	3	0.9	1.0	-2.0	-0.0018	-0.0011	-0.0010
posuv Z							
143	3	-0.4	0.0	-30.3	0.0018	0.0025	0.0000
16	3	0.0	0.0	6.5	-0.0066	0.0044	0.0000
rot X							
54	3	0.0	0.0	-13.7	-0.0208	0.0038	0.0000
69	3	-0.1	0.0	-14.0	0.0240	-0.0053	0.0000
rot Y							
137	3	11.0	0.0	-11.0	0.0000	-0.0082	0.0000
24	3	0.0	0.0	-0.9	-0.0011	0.0081	0.0000
rot Z							
131	3	0.0	0.0	0.0	-0.0015	0.0000	-0.0079
136	3	0.0	0.0	0.0	0.0017	0.0000	0.0081

Vyhledano pro

Sled uzlu : 1..143

Sled kombinaci : 1..3

POSOUZENÍ PRŮŘEZŮ

Vypočtové napětí na prutech rezy generované

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut :	4	prurez :	1	rez :	0.90 [m]
1 1.00 3	-143.2				143.2
sigma max prut :	4	prurez :	1	rez :	0.90 [m]
1 9.00 3	143.2				143.2
tau prut :	2	prurez :	1	rez :	0.00 [m]
1 12.50 3	-0.1				26.3
sigma sr. prut :	4	prurez :	1	rez :	0.90 [m]
1 9.00 3	143.2				143.2

vyuziti prurezu : 68.2 % **IPE 300 VYHOVI !**

Vyhledano pro

Prurez : 1

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy generované

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut :	8	prurez :	2	rez :	0.52 [m]
1 1.00 3	-74.3				74.3
sigma max prut :	8	prurez :	2	rez :	0.52 [m]
1 8.00 2	74.3				74.3
tau prut :	8	prurez :	2	rez :	1.05 [m]
1 4.50 3	0.0				31.2
sigma sr. prut :	8	prurez :	2	rez :	0.52 [m]
1 1.00 3	-74.3				74.3



vyuziti prurezu : 35.4 % **IPE 100** VYHOVI !
Vyhledano pro

Prurez : 2

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 11	prurez	: 3	rez	: 0.90 [m]
1 1.00 2	-38.8			0.0	38.8
sigma max prut	: 11	prurez	: 3	rez	: 0.90 [m]
1 8.00 3	38.8			0.0	38.8
tau prut	: 11	prurez	: 3	rez	: 1.80 [m]
1 4.50 3	0.0			-17.1	17.1
sigma sr. prut	: 11	prurez	: 3	rez	: 0.90 [m]
1 8.00 3	38.8			0.0	38.8

vyuziti prurezu : 18.5 % **IPE 200** VYHOVI !

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 10	prurez	: 4	rez	: 0.60 [m]
1 1.00 3	-38.3			0.0	38.3
sigma max prut	: 12	prurez	: 4	rez	: 0.60 [m]
1 2.00 3	38.4			0.0	38.4
tau prut	: 10	prurez	: 4	rez	: 1.20 [m]
1 1.50 3	0.0			-11.8	11.8
sigma sr. prut	: 12	prurez	: 4	rez	: 0.60 [m]
1 2.00 3	38.4			0.0	38.4

vyuziti prurezu : 18.3 % **UPE 100** VYHOVI !

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 18	prurez	: 5	rez	: 1.80 [m]
1 2.00 3	-180.8			0.0	180.8
sigma max prut	: 18	prurez	: 5	rez	: 1.80 [m]
3 12.00 3	179.3			0.0	179.3
tau prut	: 21	prurez	: 5	rez	: 1.20 [m]
2 7.50 3	0.0			-57.4	57.4
sigma sr. prut	: 18	prurez	: 5	rez	: 1.80 [m]
1 2.00 3	-180.8			0.0	180.8

vyuziti prurezu : 86.1 % **USV 450/250/20/30** VYHOVI !



Vyhledano pro

Prurez : 5

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 30	prurez : 6	rez : 0.80 [m]
1 1.00 3	-126.5	0.0	126.5
sigma max prut	: 34	prurez : 6	rez : 0.00 [m]
1 2.00 3	120.3	0.0	120.3
tau prut	: 35	prurez : 6	rez : 0.25 [m]
1 1.50 3	0.1	-27.9	27.9
sigma sr. prut	: 30	prurez : 6	rez : 0.80 [m]
1 1.00 3	-126.5	0.0	126.5

vyuziti prurezu : 60.2 % **UPE 120** VYHOVI !

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 26	prurez : 7	rez : 0.25 [m]
1 9.00 3	-67.7	0.0	67.7
sigma max prut	: 26	prurez : 7	rez : 0.25 [m]
1 1.00 3	67.7	0.0	67.7
tau prut	: 26	prurez : 7	rez : 0.25 [m]
1 12.50 3	0.0	-108.1	187.3
sigma sr. prut	: 26	prurez : 7	rez : 0.25 [m]
1 12.50 3	0.0	-108.1	187.3

vyuziti prurezu : 85.8 % **HEB 450** VYHOVI !

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 44	prurez : 8	rez : 2.90 [m]
1 16.00 3	-160.9	0.0	160.9
sigma max prut	: 45	prurez : 8	rez : 0.00 [m]
1 8.00 3	138.8	0.0	138.8
tau prut	: 45	prurez : 8	rez : 1.05 [m]
1 4.50 3	-0.2	-43.2	43.2
sigma sr. prut	: 44	prurez : 8	rez : 2.90 [m]
1 16.00 3	-160.9	0.0	160.9

vyuziti prurezu : 76.6 % **IPE 200** VYHOVI !

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..3



Vypočtové napětí na prutech rezy generované

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 72	prurez : 9	rez : 2.74 [m]
1 1.00 3	-178.9	0.0	178.9
sigma max prut	: 73	prurez : 9	rez : 2.74 [m]
1 8.00 3	179.2	0.0	179.2
tau prut	: 72	prurez : 9	rez : 5.47 [m]
1 12.50 3	-0.1	-39.0	39.0
sigma sr. prut	: 73	prurez : 9	rez : 2.74 [m]
1 8.00 3	179.2	0.0	179.2

vyuziti prurezu : 85.3 % **IPE 300** VYHOVI !

Vyhledano pro

Prurez : 9

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 187	prurez : 10	rez : 2.95 [m]
1 1.00 3	-196.1	0.0	196.1
sigma max prut	: 188	prurez : 10	rez : 0.00 [m]
1 9.00 3	182.1	0.0	182.1
tau prut	: 187	prurez : 10	rez : 0.00 [m]
1 4.50 3	0.7	39.0	39.0
sigma sr. prut	: 187	prurez : 10	rez : 2.95 [m]
1 1.00 3	-196.1	0.0	196.1

vyuziti prurezu : 93.4 % **IPE 300** VYHOVI !

Vyhledano pro

Prurez : 10

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 77	prurez : 11	rez : 1.22 [m]
1 1.00 3	-169.9	0.0	169.9
sigma max prut	: 78	prurez : 11	rez : 0.00 [m]
1 9.00 3	158.7	0.0	158.7
tau prut	: 76	prurez : 11	rez : 0.00 [m]
1 4.50 3	0.0	39.9	39.9
sigma sr. prut	: 77	prurez : 11	rez : 1.22 [m]
1 1.00 3	-169.9	0.0	169.9

vyuziti prurezu : 80.9 % **IPE 450** VYHOVI !

Vyhledano pro

Prurez : 11

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy generované

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
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			MPa		Mpa		Mpa
sigma min prut	:	83	prurez	:	12	rez	: 0.64 [m]
1 1.00 3		-153.3			0.0		153.3
sigma max prut	:	85	prurez	:	12	rez	: 0.64 [m]
1 8.00 3		153.3			0.0		153.3
tau prut	:	85	prurez	:	12	rez	: 1.28 [m]
1 4.50 3		0.0			-46.4		46.4
sigma sr. prut	:	83	prurez	:	12	rez	: 0.64 [m]
1 1.00 3		-153.3			0.0		153.3

vyuziti prurezu : 73.0 % **IPE 100** VYHOVI !

Vyhledano pro

Prurez : 12

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut : 1 1.00 3	82 -191.5	prurez : 13 rez : 0.0	1.47 [m] 191.5
sigma max prut : 1 8.00 3	81 191.5	prurez : 13 rez : 0.0	1.47 [m] 191.5
tau prut : 1 4.50 3	80 0.0	prurez : 13 rez : 45.7	0.00 [m] 45.7
sigma sr. prut : 1 8.00 3	81 191.5	prurez : 13 rez : 0.0	1.47 [m] 191.5

vyuziti prurezu : 91.2 % **IPE 180** VYHOVI !

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut : 1 1.00 3	86 prurez : -168.2	14 rez : 0.0	2.93 [m] 168.2
sigma max prut : 1 9.00 3	87 prurez : 158.2	14 rez : 0.0	0.00 [m] 158.2
tau prut : 1 12.50 3	88 prurez : -0.1	14 rez : -37.5	1.28 [m] 37.5
sigma sr. prut : 1 1.00 3	86 prurez : -168.2	14 rez : 0.0	2.93 [m] 168.2

vyuziti prurezu : 80.1 % **IPE 400** VYHOVI !

Vyhledano pro

Prurez : 14

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	: 64	prurez : 15	rez : 2.55 [m]



1	1.00	3	-179.8		0.0		179.8
sigma max prut	:		64	prurez	:	15 rez	: 2.55 [m]
1	2.00	3	179.3		0.0		179.3
tau prut	:		64	prurez	:	15 rez	: 5.10 [m]
1	1.50	3	-0.3		-29.5		29.5
sigma sr. prut	:		64	prurez	:	15 rez	: 2.55 [m]
1	1.00	3	-179.8		0.0		179.8

vyuziti prurezu : 85.6 % **UPE 240** VYHOVI !

Vyhledano pro

Prurez : 15

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	:	68 prurez	: 16 rez : 0.00 [m]
1	2.00 3	-145.6	0.0 145.6
sigma max prut	:	68 prurez	: 16 rez : 0.00 [m]
3	12.00 3	137.4	0.0 137.4
tau prut	:	67 prurez	: 16 rez : 0.00 [m]
2	7.50 3	0.5	53.6 53.6
sigma sr. prut	:	68 prurez	: 16 rez : 0.00 [m]
1	2.00 3	-145.6	0.0 145.6

vyuziti prurezu : 69.3 % **USV 400/150/15/20** VYHOVI !

Vyhledano pro

Prurez : 16

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	:	89 prurez	: 17 rez : 2.55 [m]
1	1.00 3	-162.3	0.0 162.3
sigma max prut	:	89 prurez	: 17 rez : 2.55 [m]
1	9.00 3	156.3	0.0 156.3
tau prut	:	90 prurez	: 17 rez : 1.20 [m]
1	12.50 3	0.0	-56.2 56.2
sigma sr. prut	:	89 prurez	: 17 rez : 2.55 [m]
1	1.00 3	-162.3	0.0 162.3

vyuziti prurezu : 77.3 % **IPE 500** VYHOVI !

Vyhledano pro

Prurez : 17

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	:	95 prurez	: 18 rez : 0.80 [m]
1	2.00 3	-124.0	0.0 124.0
sigma max prut	:	95 prurez	: 18 rez : 0.80 [m]
1	10.00 3	125.0	0.0 125.0



tau	prut	:	95	prurez	:	18	rez	:	0.80	[m]
1	1.50	3	-0.0			-48.4			48.4	
sigma sr.	prut	:	95	prurez	:	18	rez	:	0.80	[m]
1	10.00	3	125.0			0.0			125.0	

vyuziti prurezu : 59.5 % **UPE 400** VYHOVI !

Vyhledano pro

Prurez : 18

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	96	prurez	:	19	rez	:	0.00	[m]
1	2.00	3	-124.0		0.0			124.0	
sigma max prut	:	96	prurez	:	19	rez	:	0.00	[m]
1	10.00	3	124.9		0.0			124.9	
tau prut	:	96	prurez	:	19	rez	:	0.00	[m]
1	1.50	3	-0.1		71.2			123.4	
sigma sr. prut	:	96	prurez	:	19	rez	:	0.00	[m]
1	10.00	3	124.9		0.0			124.9	

vyuziti prurezu : 59.5 % **UPE 400** VYHOVI !

Vyhledano pro

Prurez : 19

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	131	prurez	:	20	rez	:	0.88	[m]
1	10.00	3	-178.4		0.0			178.4	
sigma max prut	:	131	prurez	:	20	rez	:	0.88	[m]
1	2.00	3	174.6		0.0			174.6	
tau prut	:	133	prurez	:	20	rez	:	0.88	[m]
1	1.50	3	0.0		-34.8			34.8	
sigma sr. prut	:	131	prurez	:	20	rez	:	0.88	[m]
1	10.00	3	-178.4		0.0			178.4	

vyuziti prurezu : 85.0 % **UPE 300** VYHOVI !

Vyhledano pro

Prurez : 20

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	123	prurez	:	21	rez	:	0.90	[m]
1	16.00	3	-177.7		0.0			177.7	
sigma max prut	:	124	prurez	:	21	rez	:	0.00	[m]
1	8.00	3	177.4		0.0			177.4	
tau prut	:	127	prurez	:	21	rez	:	0.76	[m]
1	3.50	3	-63.5		-109.1			199.4	
sigma sr. prut	:	127	prurez	:	21	rez	:	0.00	[m]



1 3.50 3 -92.8 -109.0 210.4

vyuziti prurezu : 91.1 % **HEB 500** VYHOVI !

Vyhledano pro

Prurez : 21

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 142	prurez	: 22 rez : 0.90 [m]
1 1.00 3	-192.0		0.0 192.0
sigma max prut	: 143	prurez	: 22 rez : 0.00 [m]
3 11.00 3	191.3		0.0 191.3
tau prut	: 138	prurez	: 22 rez : 0.00 [m]
2 5.50 3	-0.0		45.9 45.9
sigma sr. prut	: 142	prurez	: 22 rez : 0.90 [m]
1 1.00 3	-192.0		0.0 192.0

vyuziti prurezu : 91.4 % **USV 450/250/20/30** VYHOVI !

Vyhledano pro

Prurez : 22

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 150	prurez	: 23 rez : 0.00 [m]
1 16.00 3	-97.4		0.0 97.4
sigma max prut	: 149	prurez	: 23 rez : 0.80 [m]
1 8.00 3	89.7		0.0 89.7
tau prut	: 148	prurez	: 23 rez : 0.00 [m]
1 12.50 2	0.0		17.7 17.7
sigma sr. prut	: 150	prurez	: 23 rez : 0.00 [m]
1 16.00 3	-97.4		0.0 97.4

vyuziti prurezu : 46.4 % **IPE 240** VYHOVI !

Vyhledano pro

Prurez : 23

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 165	prurez	: 24 rez : 0.00 [m]
1 16.00 3	-191.1		0.0 191.1
sigma max prut	: 165	prurez	: 24 rez : 0.00 [m]
1 8.00 3	191.1		0.0 191.1
tau prut	: 166	prurez	: 24 rez : 0.22 [m]
1 12.50 2	0.0		-25.3 25.3
sigma sr. prut	: 165	prurez	: 24 rez : 0.00 [m]
1 8.00 3	191.1		0.0 191.1

vyuziti prurezu : 91.0 % **IPE 180** VYHOVI !



Vyhledano pro

Prurez : 24

Sled kombinací : 1..3

Vypočtové napětí na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 167	prurez : 25	rez : 1.95 [m]
1 10.00 3	-205.0	0.0	205.0
sigma max prut	: 167	prurez : 25	rez : 1.95 [m]
1 2.00 3	115.4	0.0	115.4
tau prut	: 171	prurez : 25	rez : 0.22 [m]
1 7.00 3	0.0	-15.9	15.9
sigma sr. prut	: 167	prurez : 25	rez : 1.95 [m]
1 10.00 3	-205.0	0.0	205.0

vyuziti prurezu : 97.6 % **UPE 300** VYHOVI !

Vyhledano pro

Prurez : 25

Sled kombinací : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 162	prurez : 26	rez : 3.94 [m]
1 10.00 3	-67.8	0.0	67.8
sigma max prut	: 163	prurez : 26	rez : 0.00 [m]
1 3.00 3	56.4	0.0	56.4
tau prut	: 163	prurez : 26	rez : 1.00 [m]
1 1.50 3	-3.3	-11.1	11.1
sigma sr. prut	: 162	prurez : 26	rez : 3.94 [m]
1 10.00 3	-67.8	0.0	67.8

vyuziti prurezu : 32.3 % **UPE 200** VYHOVI !

Vyhledano pro

Prurez : 26

Sled kombinací : 1..3

Vypočtové napětí na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 182	prurez : 27	rez : 5.00 [m]
1 1.00 3	-161.3	0.0	161.3
sigma max prut	: 182	prurez : 27	rez : 5.00 [m]
1 8.00 3	161.3	0.0	161.3
tau prut	: 182	prurez : 27	rez : 0.00 [m]
1 12.50 3	-0.0	37.8	37.8
sigma sr. prut	: 182	prurez : 27	rez : 5.00 [m]
1 1.00 3	-161.3	0.0	161.3

vyuziti prurezu : 76.8 % **HEA 320** VYHOVI !

Vyhledano pro

Prurez : 27

Sled kombinací : 1..3



Vypočtové napětí na prutech rezy zadane

Prv.	Vlak.	Kom.		sigma x		tau		sig.srov.
				MPa		Mpa		Mpa

sigma min prut	:	70	prurez	:	28	rez	:	3.70 [m]
1 1.00 3		-157.4			0.0			157.4
sigma max prut	:	70	prurez	:	28	rez	:	3.70 [m]
1 11.00 3		140.9			0.0			140.9
tau prut	:	71	prurez	:	28	rez	:	0.30 [m]
1 15.50 3		-0.0			-116.7			202.1
sigma sr. prut	:	71	prurez	:	28	rez	:	0.30 [m]
1 5.50 3		-0.0			-116.7			202.1

vyuziti prurezu : 92.6 % **I 320** VYHOVI !

Vyhledano pro

Prurez : 28

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv.	Vlak.	Kom.		sigma x		tau		sig.srov.
				MPa		Mpa		Mpa

sigma min prut	:	197	prurez	:	29	rez	:	1.56 [m]
1 1.13 3		-54.8			0.0			54.8
sigma max prut	:	195	prurez	:	29	rez	:	1.52 [m]
1 2.50 3		11.2			0.0			11.2
tau prut	:	198	prurez	:	29	rez	:	0.90 [m]
1 2.88 3		-13.0			0.0			13.0
sigma sr. prut	:	197	prurez	:	29	rez	:	1.56 [m]
1 1.13 3		-54.8			0.0			54.8

vyuziti prurezu : 26.1 % **TR f44,5x3,32** VYHOVI !

Vyhledano pro

Prurez : 29

Sled kombinaci : 1..3



2.2 PLOŠINA +18,000m,+19,00m

ZATÍŽENÍ

1. Zatěžovací stav

Vlastní tíha $\gamma = 1,35$

Generována počítačem

2. Zatěžovací stav

Zatížení stálé $\gamma = 1,35$

Podlaha z podlahových roštů

$$gz1 = 0,37 \times 0,5 \times 0,75 + 0,3 = 0,439 \text{ kN/m}$$

$$gz2 = 0,37 \times 0,75 + 0,3 = 0,277 \text{ kN/m}$$

$$gz3 = 0,37 \times 0,5 \times (0,75 + 0,72) = 0,272 \text{ kN/m}$$

$$gz4 = 0,37 \times 0,72 = 0,266 \text{ kN/m}$$

$$gz5 = 0,37 \times 0,5 \times (0,7 + 0,85) = 0,29 \text{ kN/m}$$

$$gz6 = 0,37 \times 0,5 \times 0,72 + 0,3 = 0,433 \text{ kN/m}$$

$$gz7 = 0,37 \times 0,5 \times (0,72 + 0,56) = 0,236 \text{ kN/m}$$

$$gz8 = 0,37 \times 0,5 \times 0,56 = 0,104 \text{ kN/m}$$

$$gz9 = 0,37 \times 0,85 = 0,315 \text{ kN/m}$$

$$gz10 = 0,37 \times 0,5 \times (0,85 + 0,81) = 0,307 \text{ kN/m}$$

$$gz11 = 0,37 \times 0,5 \times 0,81 + 0,3 = 0,45 \text{ kN/m}$$

$$gz12 = 0,37 \times 0,5 \times 1,0 + 0,3 = 0,485 \text{ kN/m}$$

$$gz13 = 0,37 \times 0,5 \times 1,2 + 0,3 = 0,522 \text{ kN/m}$$

$$gz14 = 0,37 \times 0,5 \times 0,85 + 0,3 = 0,457 \text{ kN/m}$$

$$gz15 = 0,37 \times 0,5 \times 0,45 = 0,083 \text{ kN/m}$$

$$gz16 = 0,37 \times 0,5 \times 0,8 + 0,3 = 0,448 \text{ kN/m}$$

$$gz17 = 0,37 \times 0,5 \times 0,8 = 0,148 \text{ kN/m}$$

3. Zatěžovací stav

Zatížení stálé - rezerva $\gamma = 1,35$

$$g = 5,0 \text{ kN/m}^2$$

$$gz1 = 5,0 \times 0,5 \times 0,75 = 1,875 \text{ kN/m}$$

$$gz2 = 5,0 \times 0,75 = 3,75 \text{ kN/m}$$

$$gz3 = 5,0 \times 0,5 \times (0,75 + 0,72) = 3,675 \text{ kN/m}$$

$$gz4 = 5,0 \times 0,72 = 3,6 \text{ kN/m}$$

$$gz5 = 5,0 \times 0,5 \times (0,72 + 0,85) = 3,925 \text{ kN/m}$$

$$gz6 = 5,0 \times 0,5 \times (0,72 + 0,56) = 3,2 \text{ kN/m}$$

$$gz7 = 5,0 \times 0,5 \times 0,56 = 1,413 \text{ kN/m}$$

$$gz8 = 5,0 \times 0,85 = 4,25 \text{ kN/m}$$

$$gz9 = 5,0 \times 0,5 \times 0,72 = 1,8 \text{ kN/m}$$

$$gz10 = 5,0 \times 0,5 \times 0,85 = 2,125 \text{ kN/m}$$

$$gz11 = 5,0 \times 0,5 \times (0,85 + 0,81) = 4,15 \text{ kN/m}$$

$$gz12 = 5,0 \times 0,5 \times 0,81 = 2,025 \text{ kN/m}$$

$$gz13 = 5,0 \times 0,5 \times 1,0 = 2,5 \text{ kN/m}$$

$$gz14 = 5,0 \times 0,5 \times 1,2 = 3,0 \text{ kN/m}$$

$$gz15 = 5,0 \times 0,5 \times 0,45 = 1,125 \text{ kN/m}$$

$$gz16 = 5,0 \times 0,5 \times 0,8 = 1,2 \text{ kN/m}$$

4. Zatěžovací stav

Zatížení užité $\gamma = 1,5$

$$p = 15,0 \text{ kN/m}^2$$

$$gz1 = 15,0 \times 0,5 \times 0,75 = 5,625 \text{ kN/m}$$

$$gz2 = 15,0 \times 0,75 = 11,25 \text{ kN/m}$$

$$gz3 = 15,0 \times 0,5 \times (0,75 + 0,72) = 11,025 \text{ kN/m}$$

$$gz4 = 15,0 \times 0,72 = 10,8 \text{ kN/m}$$

$$gz5 = 15,0 \times 0,5 \times (0,72 + 0,85) = 11,775 \text{ kN/m}$$

$$gz6 = 15,0 \times 0,5 \times (0,72 + 0,56) = 9,6 \text{ kN/m}$$



$$\begin{aligned}g_{z7} &= 5,0 \times 0,5 \times 0,56 = 4,2 \text{ kN/m} \\g_{z8} &= 15,0 \times 0,85 = 12,75 \text{ kN/m} \\g_{z9} &= 15,0 \times 0,5 \times 0,72 = 5,4 \text{ kN/m} \\g_{z10} &= 15,0 \times 0,5 \times 0,85 = 6,375 \text{ kN/m} \\g_{z11} &= 15,0 \times 0,5 \times (0,85 + 0,81) = 12,45 \text{ kN/m} \\g_{z12} &= 15,0 \times 0,5 \times 0,81 = 6,075 \text{ kN/m} \\g_{z13} &= 15,0 \times 0,5 \times 1,0 = 7,5 \text{ kN/m} \\g_{z14} &= 15,0 \times 0,5 \times 1,2 = 9,0 \text{ kN/m}\end{aligned}$$

5. Zatěžovací stav

Zatížení drážkou $\gamma = 1,5$ $P_{z1} = 118,17 \text{ kN}$ $P_{x1} = 11,591 \text{ kN}$

6. Zatěžovací stav

Zatížení drážkou $\gamma = 1,5$ $P_{z1} = 118,17 \text{ kN}$ $P_{x1} = 11,591 \text{ kN}$

7. Zatěžovací stav

Zatížení drážkou $\gamma = 1,5$ $P_{z1} = 118,17 \text{ kN}$ $P_{x1} = 11,591 \text{ kN}$

8. Zatěžovací stav

Zatížení drážkou $\gamma = 1,5$ $P_{z1} = 118,17 \text{ kN}$ $P_{x1} = 11,591 \text{ kN}$

9. Zatěžovací stav

Zatížení drážkou $\gamma = 1,5$ $P_{z1} = 118,17 \text{ kN}$ $P_{x1} = 11,591 \text{ kN}$ **TVAR KONSTRUKCE**

U Z L Y

uzel X[m] Y[m] Z[m] typ

1	0.0000	0.0000	0.0000	
2	0.0000	3.9500	0.0000	
3	0.2500	3.9500	0.0000	
4	0.2500	5.1500	0.0000	
5	0.2500	10.2500	0.0000	
6	0.2500	11.4500	0.0000	
7	0.0000	11.4500	0.0000	
8	0.2500	15.4750	0.0000	
9	0.0000	15.7000	0.0000	
10	0.7500	0.0000	0.0000	
11	1.5000	0.0000	0.0000	
12	2.2200	0.0000	0.0000	
13	2.9400	0.0000	0.0000	
14	3.5000	0.0000	0.0000	
15	3.7900	0.0000	0.0000	
16	4.6400	0.0000	0.0000	
17	5.4900	0.0000	0.0000	
18	6.3400	0.0000	0.0000	
19	7.1900	0.0000	0.0000	



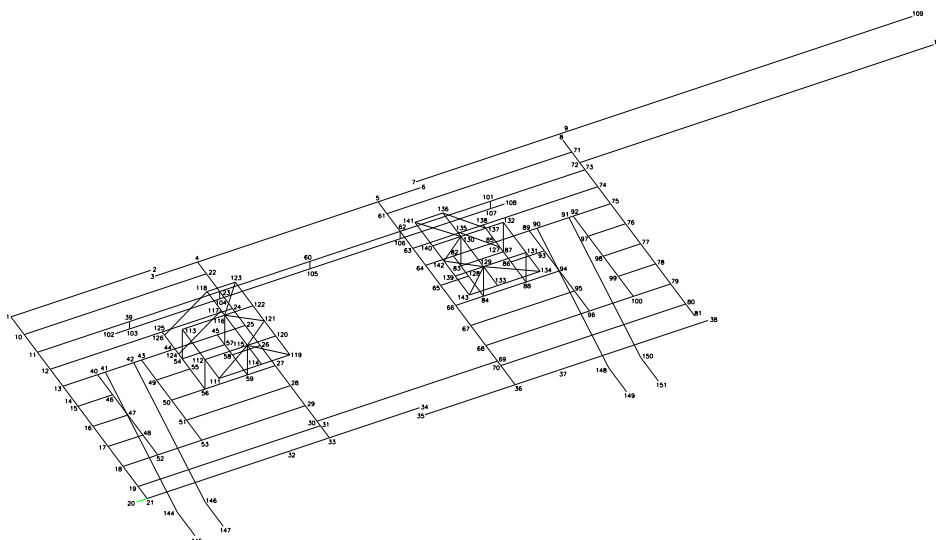
20	7.7000	-0.3000	0.0000
21	7.7000	0.0000	0.0000
22	0.7500	5.1500	0.0000
23	1.5000	5.1500	0.0000
24	2.2200	5.1500	0.0000
25	2.9400	5.1500	0.0000
26	3.7900	5.1500	0.0000
27	4.6400	5.1500	0.0000
28	5.4900	5.1500	0.0000
29	6.3400	5.1500	0.0000
30	7.0000	5.1500	0.0000
31	7.1900	5.1500	0.0000
32	7.7000	3.9500	0.0000
33	7.7000	5.1500	0.0000
34	7.7000	7.7000	0.0000
35	8.0000	7.7000	0.0000
36	8.0000	10.2500	0.0000
37	8.0000	11.4500	0.0000
38	8.0000	15.7000	0.0000
39	1.5000	2.6000	0.0000
40	2.9400	0.9800	0.0000
41	2.9400	1.2000	0.0000
42	2.9400	2.0000	0.0000
43	2.9400	2.2200	0.0000
44	2.9400	3.1630	0.0000
45	2.9400	4.3630	0.0000
46	3.7900	0.9800	0.0000
47	4.6500	0.9800	0.0000
48	5.5000	0.9800	0.0000
49	3.7900	2.2200	0.0000
50	4.6400	2.2200	0.0000
51	5.4900	2.2200	0.0000
52	6.3400	0.9800	0.0000
53	6.3400	2.2200	0.0000
54	3.3600	3.1630	0.0000
55	3.7900	3.1630	0.0000
56	4.6400	3.1630	0.0000
57	3.3600	4.3630	0.0000
58	3.7900	4.3630	0.0000
59	4.6400	4.3630	0.0000
60	1.5000	7.7000	0.0000
61	0.7500	10.2500	0.0000
62	1.5000	10.2500	0.0000
63	2.2200	10.2500	0.0000
64	2.9400	10.2500	0.0000
65	3.7900	10.2500	0.0000
66	4.6400	10.2500	0.0000
67	5.4900	10.2500	0.0000
68	6.3400	10.2500	0.0000
69	7.0000	10.2500	0.0000
70	7.1900	10.2500	0.0000
71	0.7500	15.4750	0.0000
72	1.2000	15.4750	0.0000
73	1.5000	15.4750	0.0000
74	2.2200	15.4750	0.0000
75	2.9400	15.4750	0.0000
76	3.7900	15.4750	0.0000
77	4.6400	15.4750	0.0000
78	5.4900	15.4750	0.0000
79	6.3400	15.4750	0.0000



80	7.1900	15.4750	0.0000
81	7.7000	15.4750	0.0000
82	2.9400	11.0370	0.0000
83	3.3600	11.0370	0.0000
84	4.6400	11.0370	0.0000
85	2.9400	12.2370	0.0000
86	3.7900	12.2370	0.0000
87	3.3600	12.2370	0.0000
88	4.6400	12.2370	0.0000
89	2.9400	13.1800	0.0000
90	2.9400	13.4000	0.0000
91	2.9400	14.3000	0.0000
92	2.9400	14.4200	0.0000
93	3.7900	13.1800	0.0000
94	4.6400	13.1800	0.0000
95	5.4900	13.1800	0.0000
96	6.3400	13.1800	0.0000
97	3.7900	14.4200	0.0000
98	4.6400	14.4200	0.0000
99	5.4900	14.4200	0.0000
100	6.3400	14.4200	0.0000
101	1.5000	12.8000	0.0000
102	1.5000	2.2000	-0.2500
103	1.5000	2.6000	-0.2500
104	1.5000	5.1500	-0.2500
105	1.5000	7.7000	-0.2500
106	1.5000	10.2500	-0.2500
107	1.5000	12.8000	-0.2500
108	1.5000	13.2000	-0.2500
109	0.0000	25.4750	0.0000
110	1.2000	25.4750	0.0000
111	5.4400	3.1630	1.0000
112	4.6400	3.1630	1.0000
113	3.3600	3.1630	1.0000
114	5.4400	4.3630	1.0000
115	4.6400	4.3630	1.0000
116	3.3600	4.3630	1.0000
117	3.1600	4.3630	1.0000
118	2.3600	4.3630	1.0000
119	5.4400	5.1630	1.0000
120	4.6400	5.1630	1.0000
121	4.0000	5.1630	1.0000
122	3.3600	5.1630	1.0000
123	2.3600	5.1630	1.0000
124	3.1600	3.1630	0.0000
125	2.2200	3.1630	0.0000
126	2.3600	3.1630	0.0000
127	3.1600	12.2370	0.0000
128	3.7900	11.0370	0.0000
129	4.6400	11.0370	1.0000
130	3.3600	11.0370	1.0000
131	4.6400	12.2370	1.0000
132	3.3600	12.2370	1.0000
133	5.4400	11.0370	1.0000
134	5.4400	12.2370	1.0000
135	3.1600	11.0370	1.0000
136	2.3600	11.0270	1.0000
137	2.3600	12.2370	0.0000
138	2.2200	12.2370	0.0000
139	4.6400	10.2370	1.0000



140	3.3600	10.2370	1.0000
141	2.3600	10.2370	1.0000
142	4.0000	10.2370	1.0000
143	5.4400	10.2370	1.0000
144	7.0000	1.2000	-1.5000
145	8.0000	1.2000	-1.5000
146	7.0000	2.0000	-1.5000
147	8.0000	2.0000	-1.5000
148	7.0000	13.4000	-1.5000
149	8.0000	13.4000	-1.5000
150	7.0000	14.3000	-1.5000
151	8.0000	14.3000	-1.5000



P R U T Y					
prut	zac	konec	delka[m]	prurez	typ
1	1	2	3.9500	1	
2	3	4	1.2000	2	
3	4	5	5.1000	2	
4	5	6	1.2000	2	
5	7	9	4.2500	1	
6	1	10	0.7500	13	
7	10	11	0.7500	13	
8	11	12	0.7200	13	
9	12	13	0.7200	13	
10	13	14	0.5600	13	
11	14	15	0.2900	13	
12	15	16	0.8500	13	
13	16	17	0.8500	13	
14	17	18	0.8500	13	
15	18	19	0.8500	13	
16	19	21	0.5100	13	
17	4	22	0.5000	16	
18	22	23	0.7500	16	
19	23	24	0.7200	16	
20	24	25	0.7200	16	
21	25	26	0.8500	16	
22	26	27	0.8500	16	
23	27	28	0.8500	16	
24	28	29	0.8500	16	
25	29	30	0.6600	16	



26	30	31	0.1900	16
27	31	33	0.5100	16
28	5	61	0.5000	16
29	61	62	0.7500	16
30	62	63	0.7200	16
31	63	64	0.7200	16
32	64	65	0.8500	16
33	65	66	0.8500	16
34	66	67	0.8500	16
35	67	68	0.8500	16
36	68	69	0.6600	16
37	69	70	0.1900	16
38	70	36	0.8100	16
39	8	71	0.5000	17
40	71	72	0.4500	17
41	72	73	0.3000	17
42	73	74	0.7200	17
43	74	75	0.7200	17
44	75	76	0.8500	17
45	76	77	0.8500	17
46	77	78	0.8500	17
47	78	79	0.8500	17
48	79	80	0.8500	17
49	80	81	0.5100	17
50	40	46	0.8500	14
51	46	47	0.8600	14
52	47	48	0.8500	14
53	48	52	0.8400	14
54	43	49	0.8500	14
55	49	50	0.8500	14
56	50	51	0.8500	14
57	51	53	0.8500	14
58	124	54	0.2000	15
59	54	55	0.4300	15
60	55	56	0.8500	15
61	45	57	0.4200	15
62	57	58	0.4300	15
63	58	59	0.8500	15
64	82	83	0.4200	15
65	128	84	0.8500	15
66	138	74	3.2380	3
67	87	86	0.4300	15
68	86	88	0.8500	15
69	89	93	0.8500	14
70	93	94	0.8500	14
71	94	95	0.8500	14
72	95	96	0.8500	14
73	92	97	0.8500	14
74	97	98	0.8500	14
75	98	99	0.8500	14
76	99	100	0.8500	14
77	10	22	5.1500	3
78	11	39	2.6000	4
79	39	23	2.5500	4
80	12	125	3.1630	3
81	13	40	0.9800	5
82	40	41	0.2200	5
83	41	42	0.8000	5
84	42	43	0.2200	5
85	43	44	0.9430	5



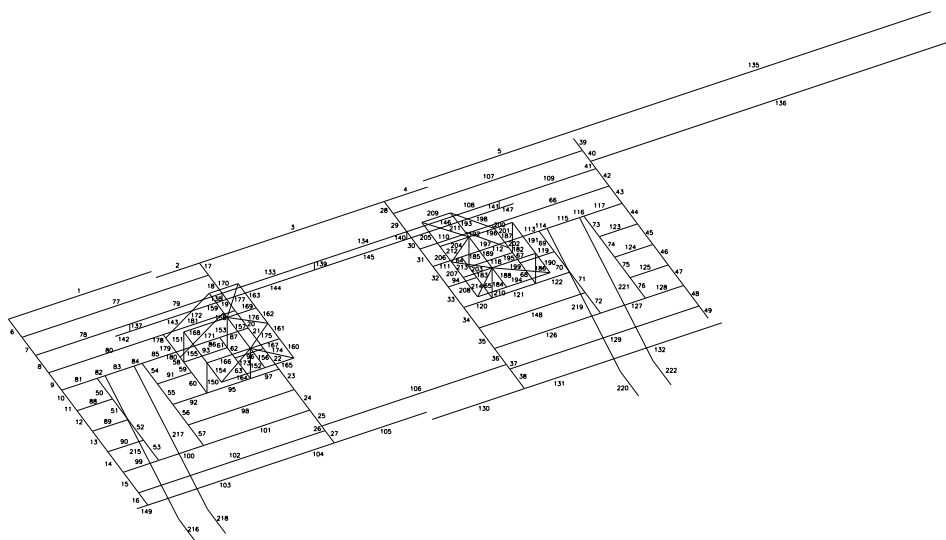
86	44	45	1.2000	5
87	45	25	0.7870	5
88	15	46	0.9800	6
89	16	47	0.9801	6
90	17	48	0.9801	6
91	49	55	0.9430	6
92	50	56	0.9430	7
93	54	57	1.2000	18
94	65	128	0.7870	6
95	56	59	1.2000	7
96	58	26	0.7870	6
97	59	27	0.7870	7
98	51	28	2.9300	8
99	18	52	0.9800	9
100	52	53	1.2400	9
101	53	29	2.9300	9
102	19	31	5.1500	3
103	21	32	3.9500	11
104	32	33	1.2000	11
105	33	34	2.5500	11
106	30	69	5.1000	10
107	61	71	5.2250	3
108	62	101	2.5500	4
109	101	73	2.6750	4
110	63	138	1.9870	3
111	64	82	0.7870	5
112	82	85	1.2000	5
113	85	89	0.9430	5
114	89	90	0.2200	5
115	90	91	0.9000	5
116	91	92	0.1200	11
117	92	75	1.0550	5
118	83	87	1.2000	18
119	86	93	0.9430	6
120	66	84	0.7870	7
121	84	88	1.2000	7
122	88	94	0.9430	7
123	97	76	1.0550	6
124	98	77	1.0550	6
125	99	78	1.0550	6
126	68	96	2.9300	9
127	96	100	1.2400	9
128	100	79	1.0550	9
129	70	80	5.2250	3
130	35	36	2.5500	12
131	36	37	1.2000	12
132	37	38	4.2500	12
133	23	60	2.5500	22
134	60	62	2.5500	22
135	9	109	9.7750	19
136	72	110	10.0000	19
137	103	39	0.2500	21
138	104	23	0.2500	21
139	105	60	0.2500	21
140	106	62	0.2500	21
141	107	101	0.2500	21
142	102	103	0.4000	20
143	103	104	2.5500	20
144	104	105	2.5500	20
145	105	106	2.5500	20



146	106	107	2.5500	20
147	107	108	0.4000	20
148	67	95	2.9300	8
149	20	21	0.3000	11
150	56	112	1.0000	23
151	54	113	1.0000	23
152	59	115	1.0000	23
153	57	116	1.0000	23
154	111	112	0.8000	24
155	112	113	1.2800	24
156	114	115	0.8000	26
157	115	116	1.2800	26
158	116	117	0.2000	26
159	117	118	0.8000	26
160	119	120	0.8000	25
161	120	121	0.6400	25
162	121	122	0.6400	25
163	122	123	1.0000	25
164	111	114	1.2000	25
165	114	119	0.8000	25
166	112	115	1.2000	24
167	115	120	0.8000	24
168	113	116	1.2000	24
169	116	122	0.8000	24
170	118	123	0.8000	27
171	124	117	1.5620	27
172	126	118	1.5620	27
173	111	115	1.4422	28
174	119	115	1.1314	28
175	115	121	1.0245	28
176	116	121	1.0245	28
177	116	123	1.2806	28
178	125	126	0.1400	15
179	126	44	0.5800	15
180	44	124	0.2200	15
181	125	24	1.9870	3
182	127	87	0.2000	15
183	83	128	0.4300	15
184	84	129	1.0000	23
185	83	130	1.0000	23
186	88	131	1.0000	23
187	87	132	1.0000	23
188	133	129	0.8000	26
189	129	130	1.2800	26
190	134	131	0.8000	24
191	131	132	1.2800	24
192	130	135	0.2000	26
193	135	136	0.8001	26
194	133	134	1.2000	25
195	129	131	1.2000	24
196	130	132	1.2000	24
197	127	135	1.5620	27
198	137	136	1.5697	27
199	129	134	1.4422	28
200	138	137	0.1400	15
201	137	85	0.5800	15
202	85	127	0.2200	15
203	139	129	0.8000	24
204	140	130	0.8000	24
205	141	140	1.0000	25

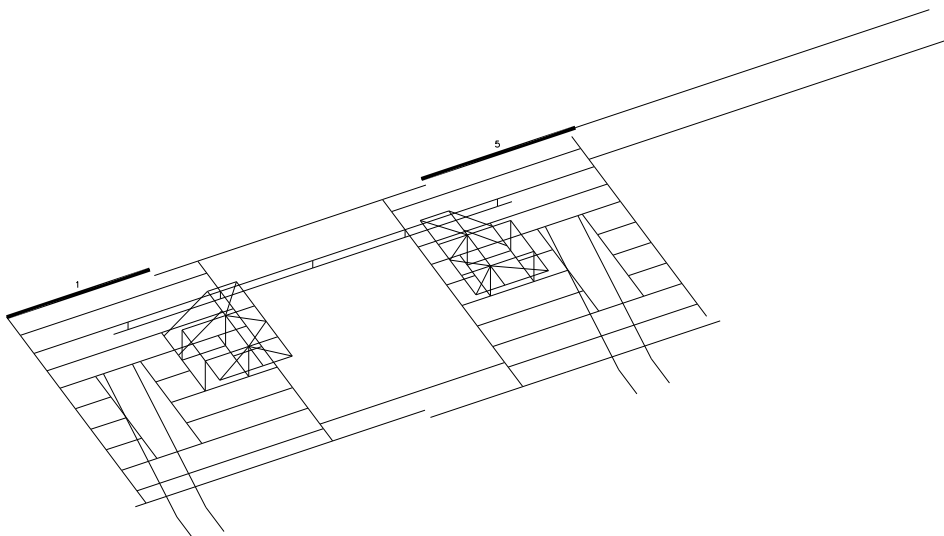


206	140	142	0.6400	25
207	142	139	0.6400	25
208	139	143	0.8000	25
209	141	136	0.7900	27
210	143	133	0.8000	25
211	141	130	1.2806	28
212	130	142	1.0245	28
213	142	129	1.0245	28
214	129	143	1.1314	28
215	41	144	4.3282	29
216	144	145	1.0000	29
217	42	146	4.3282	29
218	146	147	1.0000	29
219	90	148	4.3282	29
220	148	149	1.0000	29
221	91	150	4.3282	29
222	150	151	1.0000	29



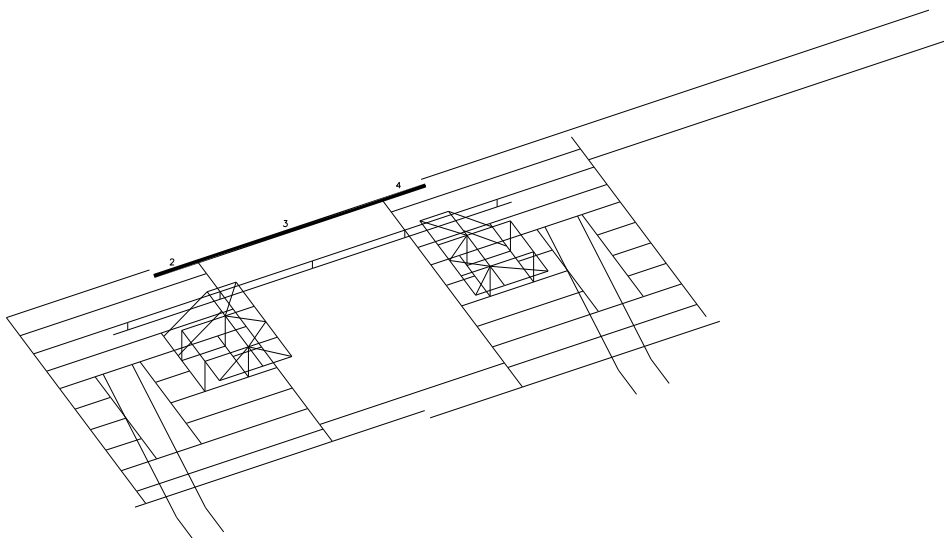
P R U R E Z Y - charakteristiky

PRUREZ c. 1 (IPE)
plocha A[m2] = 2.85995E-03
mom.setr. Iy[m4] = 1.95194E-05
mom.setr. Iw[m8] = 1.29881E-08
Prvek 1 IPE 200
poloha teziste Y = 50.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 6.98000E-08
mom.setr. Iz[m4] = 1.42443E-06
ocel 37
Z = -100.00



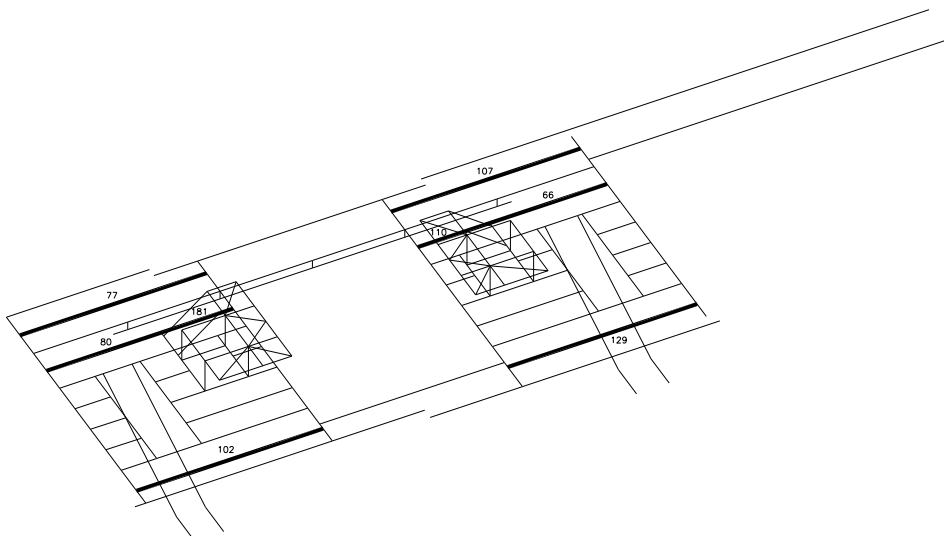
PRUREZ c. 2 (U svar)
plocha A[m2] = 2.18000E-02
mom.setr. Iy[m4] = 5.80007E-04
mom.setr. Iw[m8] = 3.40394E-06
Prvek 1 P 30.250
Prvek 2 P 20.340
Prvek 3 P 30.250
poloha teziste Y = 89.13 Z = -200.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 5.64077E-06
mom.setr. Iz[m4] = 1.40230E-04
ocel 37
ocel 37
ocel 37



PRUREZ c. 3 (IPE)
plocha A[m2] = 5.39923E-03
mom.setr. Iy[m4] = 8.38842E-05
mom.setr. Iw[m8] = 1.25934E-07
Prvek 1 IPE 300
poloha teziste Y = 75.00 Z = -150.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 2.01000E-07
mom.setr. Iz[m4] = 6.03963E-06
ocel 37



PRUREZ c. 4 (HE-B)

plocha A[m2] = 1.98362E-02

mom.setr. Iy[m4] = 5.78421E-04

mom.setr. Iw[m8] = 3.81715E-06

Prvek 1 HE-B 400

poloha teziste Y = 150.00

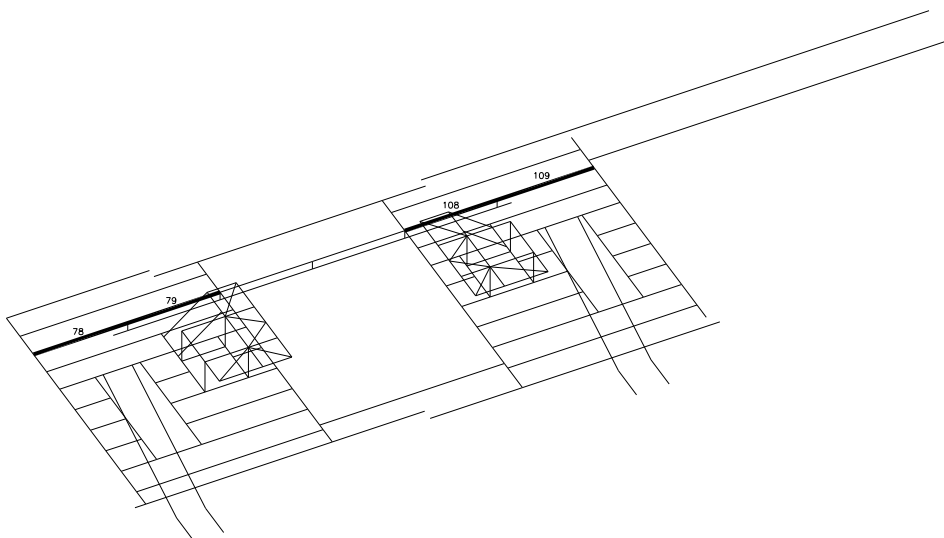
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.90811E-06

mom.setr. Iz[m4] = 1.08211E-04

ocel 37

Z = -200.00



PRUREZ c. 5 (IPE)

plocha A[m2] = 8.48169E-03

mom.setr. Iy[m4] = 2.32415E-04

mom.setr. Iw[m8] = 4.90048E-07

Prvek 1 IPE 400

poloha teziste Y = 90.00

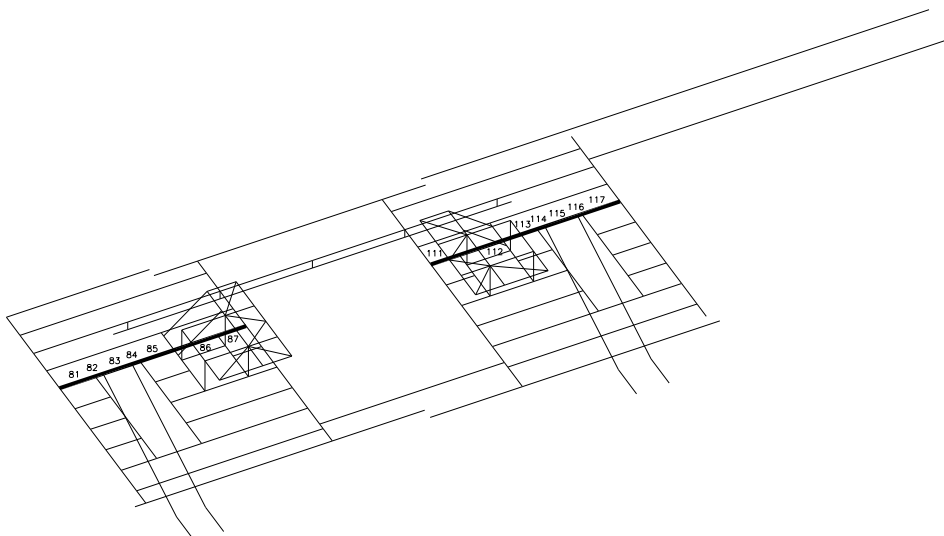
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.14000E-07

mom.setr. Iz[m4] = 1.31848E-05

ocel 37

Z = -200.00



PRŮŘEZ c. 6 (IPE)

plocha A[m2] = 1.03625E-03

mom.setr. Iy[m4] = 1.71698E-06

mom.setr. Iw[m8] = 3.51378E-10

Prvek 1 IPE 100

poloha težiště Y = 27.50

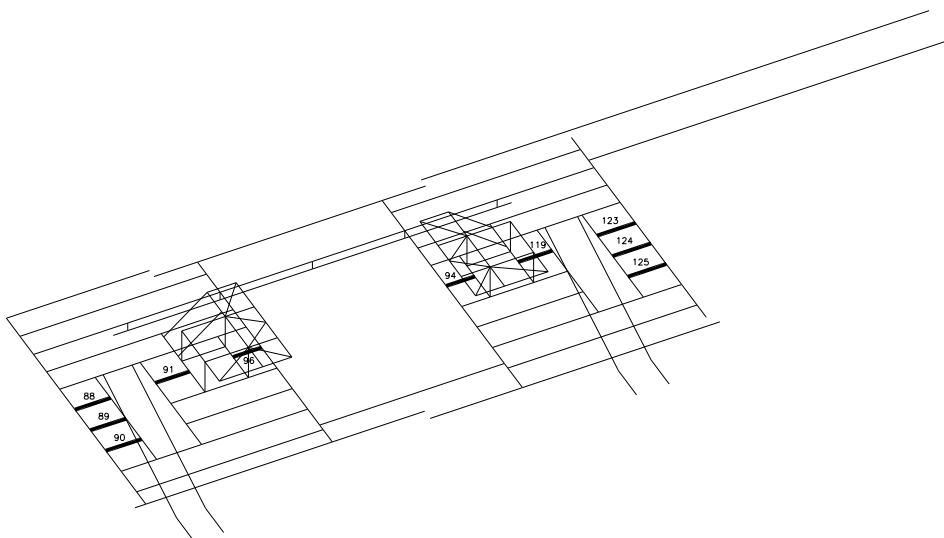
rotace průřezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.15999E-08

mom.setr. Iz[m4] = 1.59288E-07

ocel 37

Z = -50.00



PRŮŘEZ c. 7 (IPE)

plocha A[m2] = 2.85995E-03

mom.setr. Iy[m4] = 1.95194E-05

mom.setr. Iw[m8] = 1.29881E-08

Prvek 1 IPE 200

poloha težiště Y = 50.00

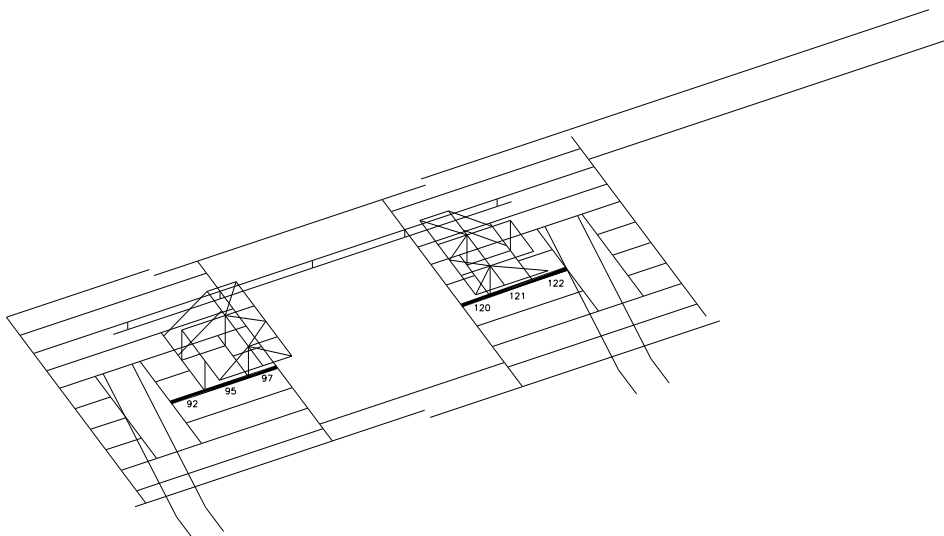
rotace průřezu Rx[st] = 0.00

mom.setr. Ix[m4] = 6.98000E-08

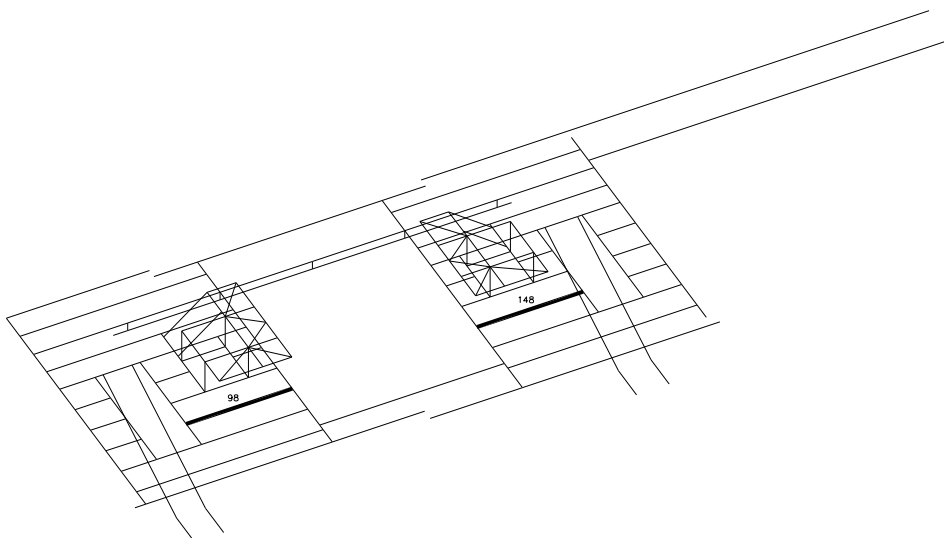
mom.setr. Iz[m4] = 1.42443E-06

ocel 37

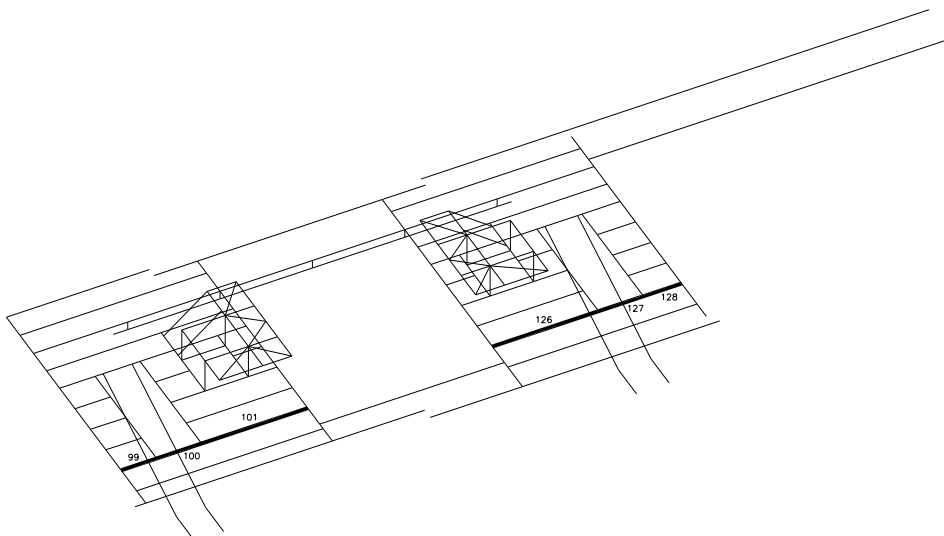
Z = -100.00



PRUREZ c. 8 (IPE)
plocha A[m2] = 2.40122E-03
mom.setr. Iy[m4] = 1.32098E-05
mom.setr. Iw[m8] = 7.43121E-09
Prvek 1 IPE 180
poloha teziste Y = 45.50
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 4.78000E-08
mom.setr. Iz[m4] = 1.00878E-06
ocel 37
Z = -90.00



PRUREZ c. 9 (IPE)
plocha A[m2] = 8.48169E-03
mom.setr. Iy[m4] = 2.32415E-04
mom.setr. Iw[m8] = 4.90048E-07
Prvek 1 IPE 400
poloha teziste Y = 90.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 5.14000E-07
mom.setr. Iz[m4] = 1.31848E-05
ocel 37
Z = -200.00



PRUREZ c. 10 (UPE)

plocha A[m2] = 3.54578E-03

mom.setr. Iy[m4] = 4.21676E-05

mom.setr. Iw[m8] = 3.75408E-08

Prvek 1 UPE 270

poloha teziste Y = 28.13

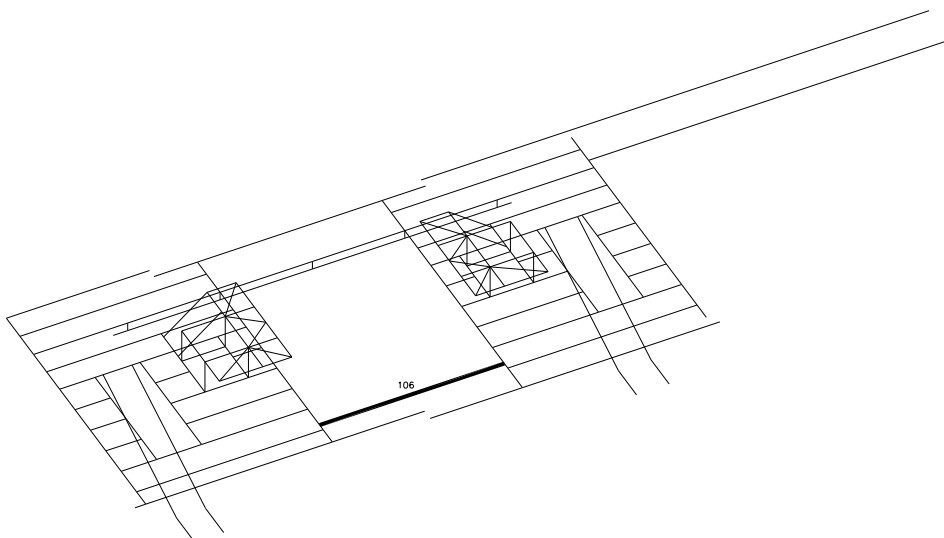
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 9.91000E-08

mom.setr. Iz[m4] = 3.21885E-06

ocel 37

Z = -135.00



PRUREZ c. 11 (U svar)

plocha A[m2] = 1.41500E-02

mom.setr. Iy[m4] = 4.56218E-04

mom.setr. Iw[m8] = 1.81889E-06

Prvek 1 P 20.200

Prvek 2 P 15.410

Prvek 3 P 20.200

poloha teziste Y = 59.80

rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.62475E-06

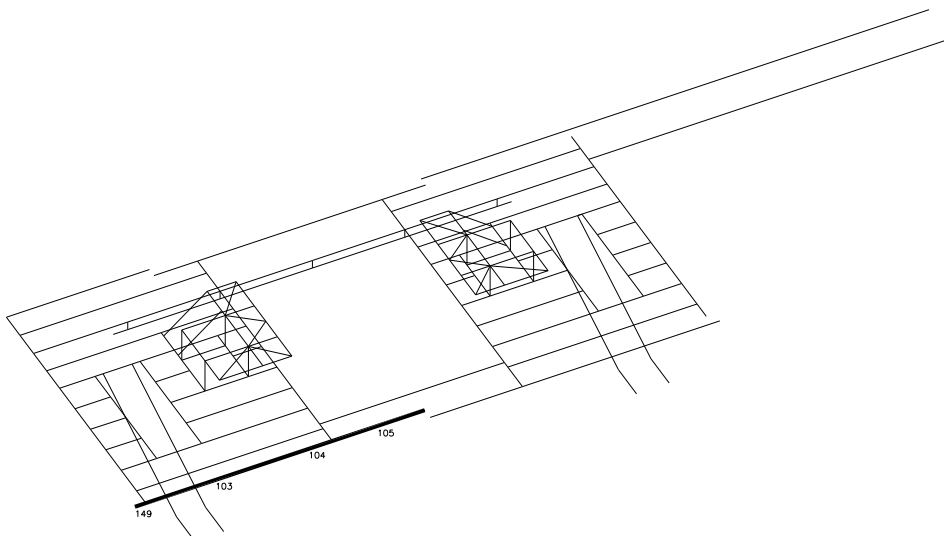
mom.setr. Iz[m4] = 5.65323E-05

ocel 37

ocel 37

ocel 37

Z = -225.00



PRUREZ c. 12 (IPE)

plocha A[m2] = 1.15875E-02

mom.setr. Iy[m4] = 4.83796E-04

mom.setr. Iw[m8] = 1.24937E-06

Prvek 1 IPE 500

poloha teziste Y = 100.00

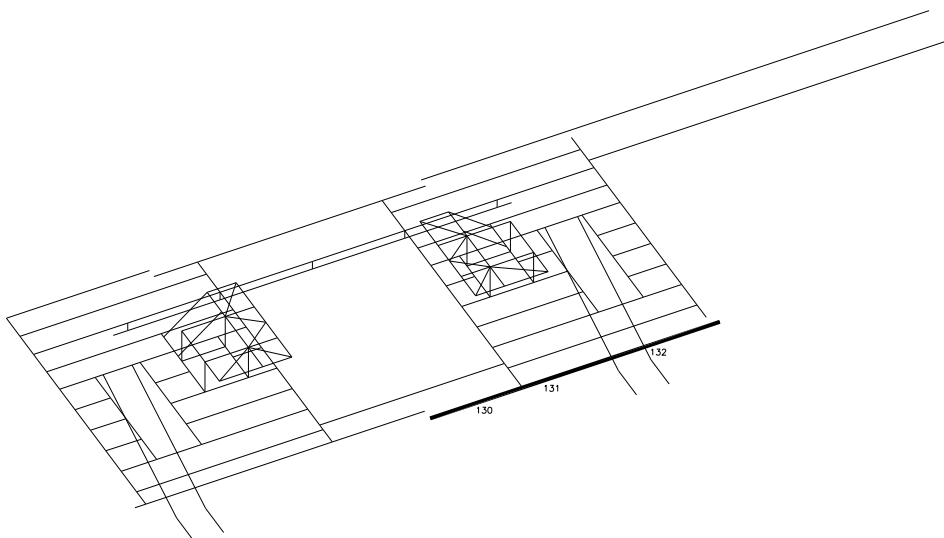
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 8.95999E-07

mom.setr. Iz[m4] = 2.14241E-05

ocel 37

Z = -250.00



PRUREZ c. 13 (U svar)

plocha A[m2] = 1.14000E-02

mom.setr. Iy[m4] = 2.75120E-04

mom.setr. Iw[m8] = 6.09369E-07

Prvek 1 P 20.150

Prvek 2 P 15.360

Prvek 3 P 20.150

poloha teziste Y = 43.03

rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.26330E-06

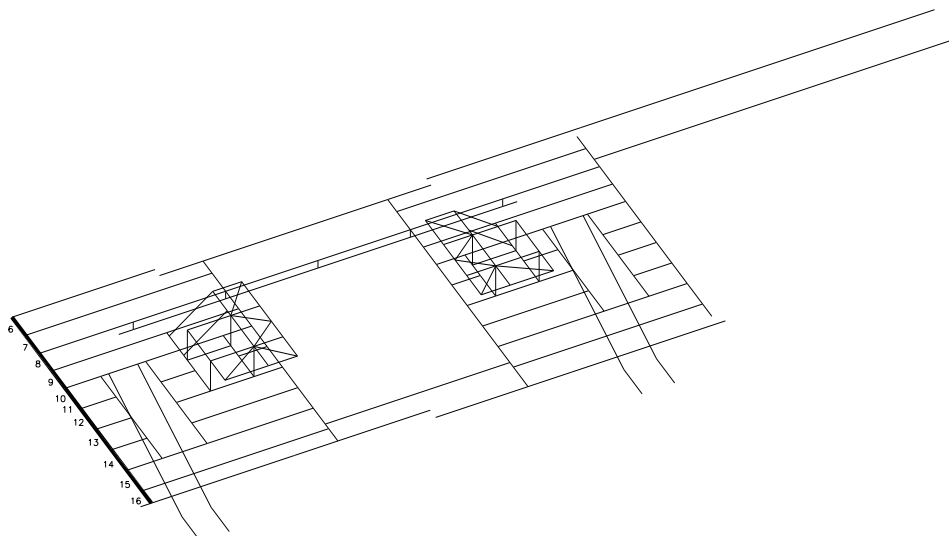
mom.setr. Iz[m4] = 2.43006E-05

ocel 37

ocel 37

ocel 37

Z = -200.00



PRUREZ c. 14 (UPE)

plocha A[m2] = 3.54578E-03

mom.setr. Iy[m4] = 4.21676E-05

mom.setr. Iw[m8] = 3.75408E-08

Prvek 1 UPE 270

poloha teziste Y = 28.13

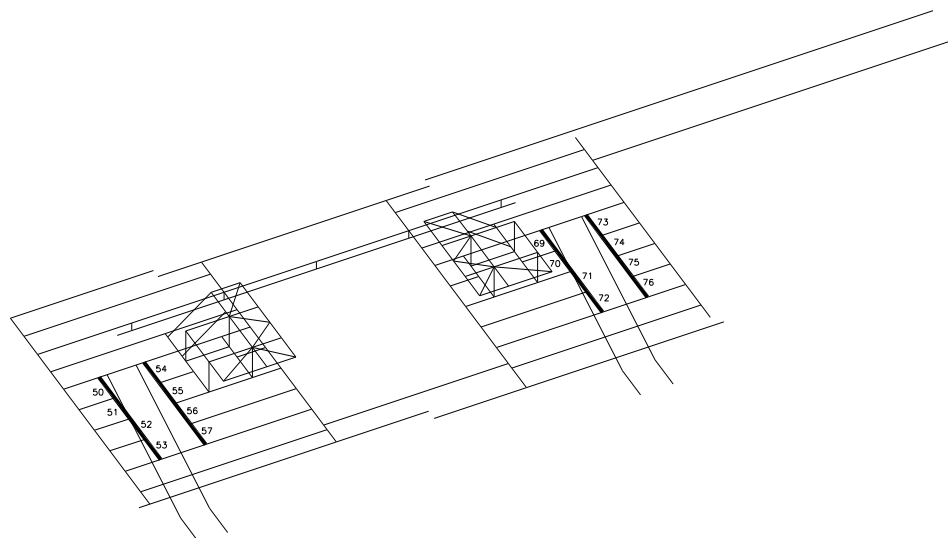
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 9.91000E-08

mom.setr. Iz[m4] = 3.21885E-06

ocel 37

Z = -135.00



PRUREZ c. 15 (IPE)

plocha A[m2] = 1.32495E-03

mom.setr. Iy[m4] = 3.18782E-06

mom.setr. Iw[m8] = 8.89591E-10

Prvek 1 IPE 120

poloha teziste Y = 32.00

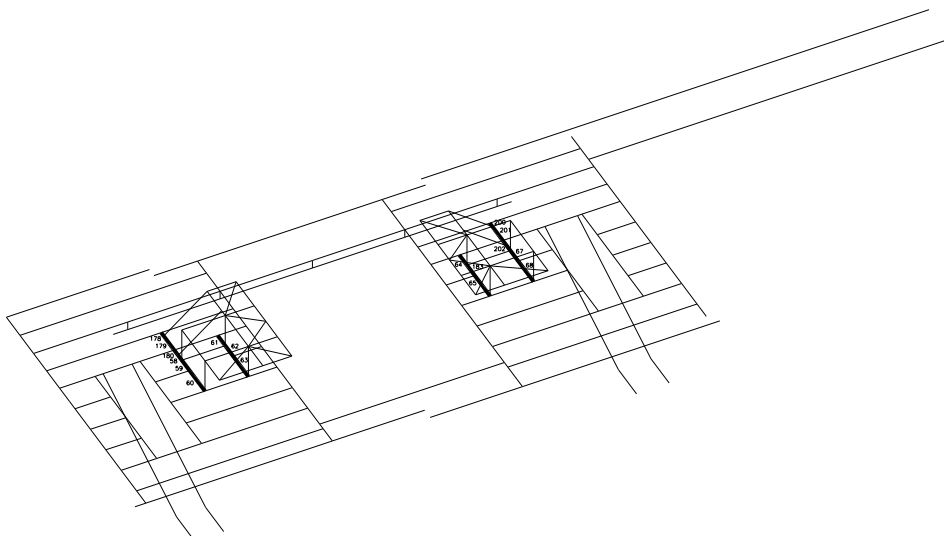
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.70000E-08

mom.setr. Iz[m4] = 2.76789E-07

ocel 37

Z = -60.00



PRUREZ c. 16 (HE-B)

plocha A[m2] = 2.18562E-02

mom.setr. Iy[m4] = 8.00968E-04

mom.setr. Iw[m8] = 5.25845E-06

Prvek 1 HE-B 450

poloha teziste Y = 150.00

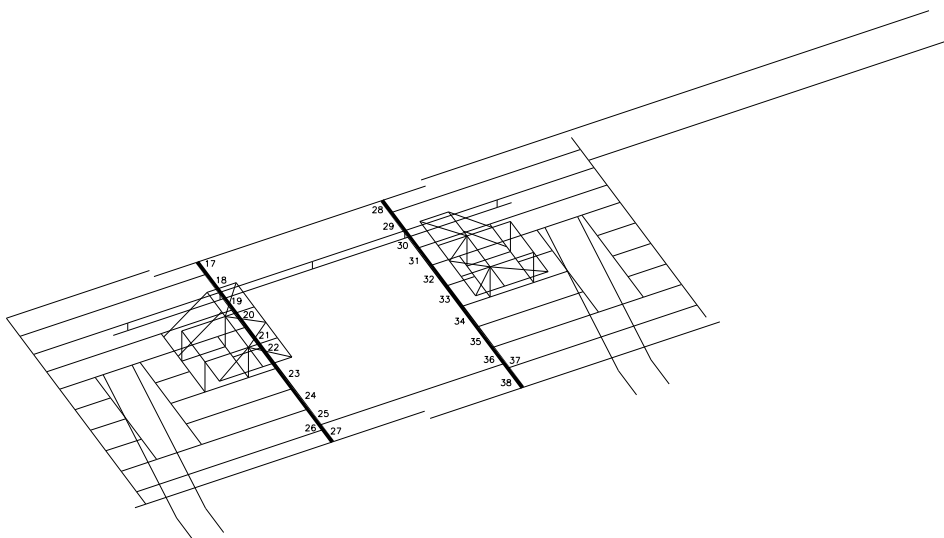
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.68064E-06

mom.setr. Iz[m4] = 1.17234E-04

ocel 37

Z = -225.00



PRUREZ c. 17 (U svar)

plocha A[m2] = 2.28000E-02

mom.setr. Iy[m4] = 7.61490E-04

mom.setr. Iw[m8] = 4.53720E-06

Prvek 1 P 30.250

Prvek 2 P 20.390

Prvek 3 P 30.250

poloha teziste Y = 85.66

rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.79008E-06

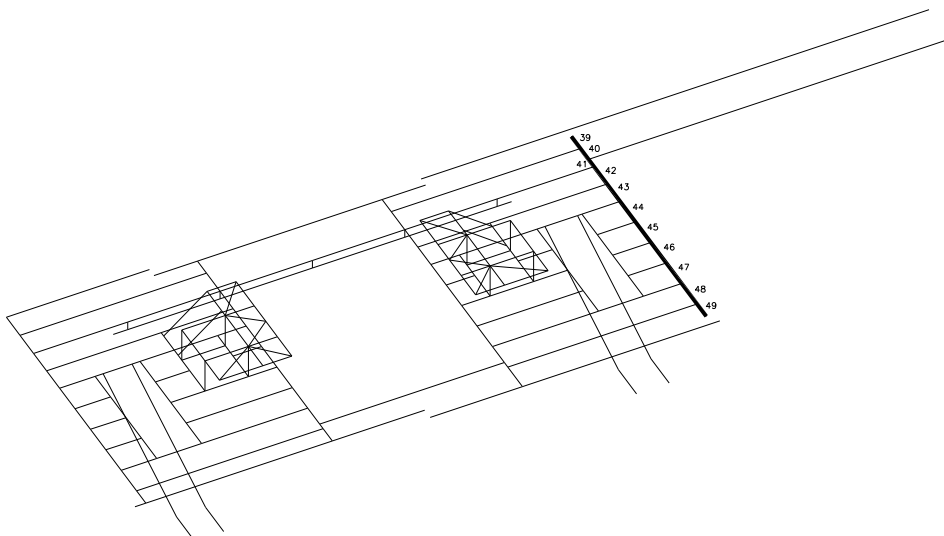
mom.setr. Iz[m4] = 1.46250E-04

ocel 37

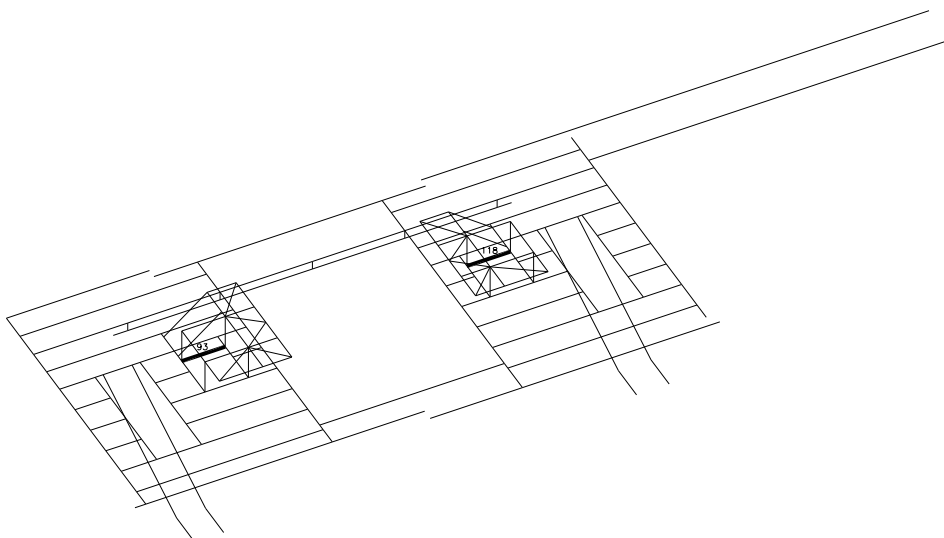
ocel 37

ocel 37

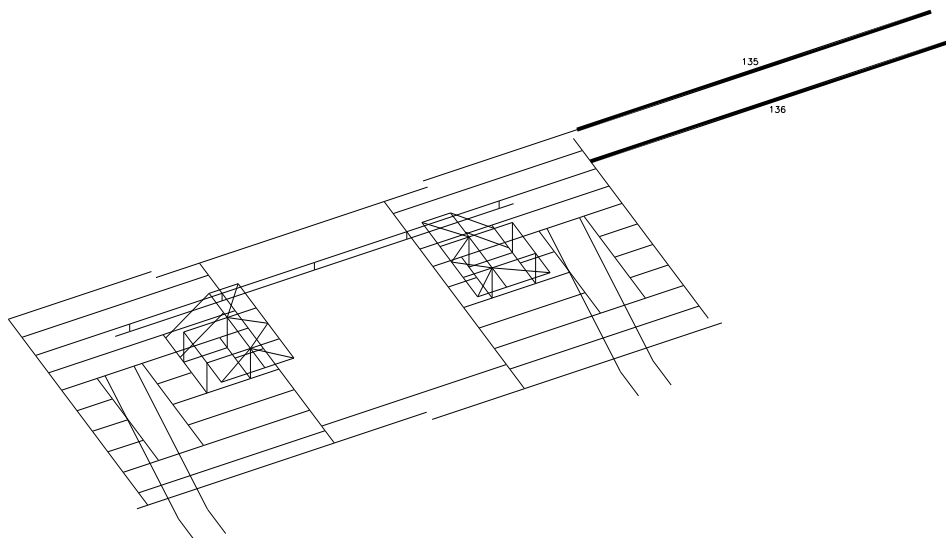
Z = -225.00



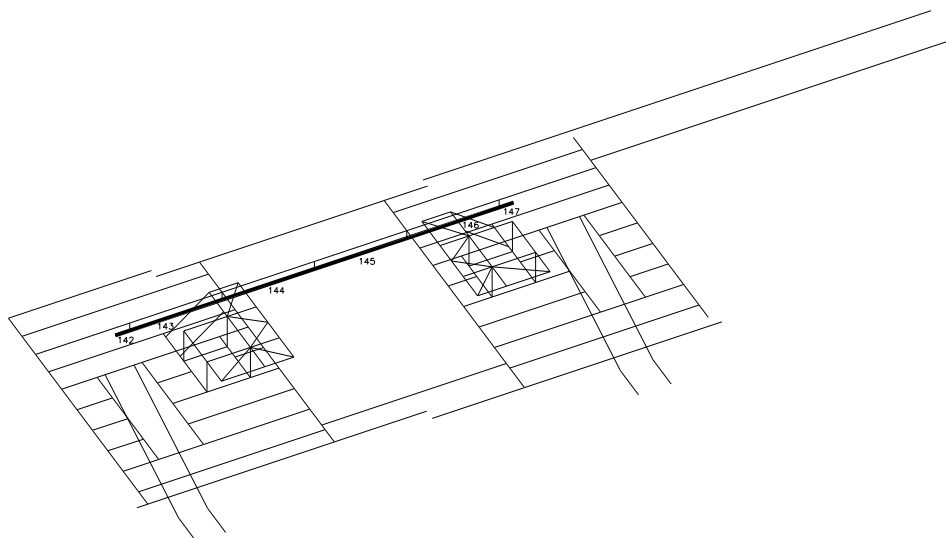
PRUREZ c. 18 (UPE)
plocha A[m2] = 1.08719E-03
mom.setr. Iy[m4] = 1.73306E-06
mom.setr. Iw[m8] = 3.31313E-10
Prvek 1 UPE 100
poloha teziste Y = 15.33 Z = -50.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.62000E-08
mom.setr. Iz[m4] = 2.28325E-07
ocel 37



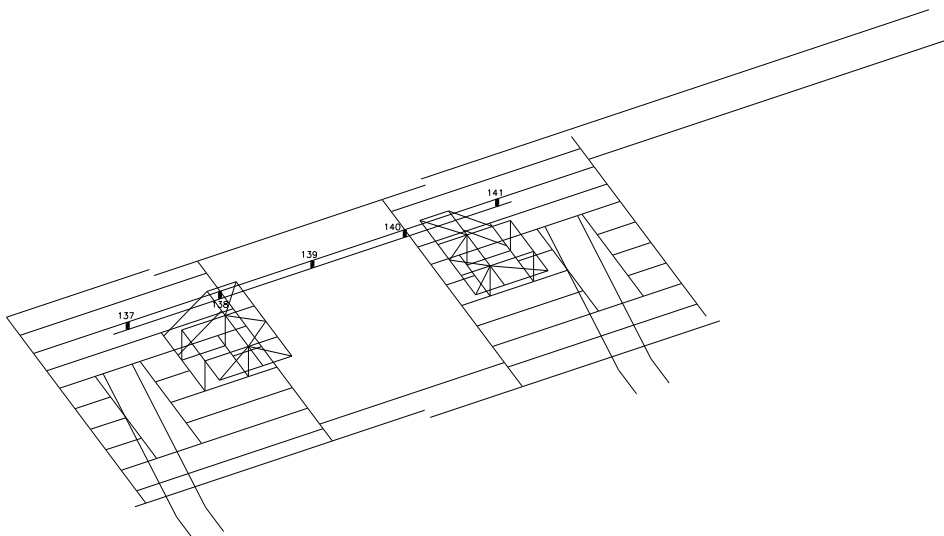
PRUREZ c. 19 (HE-A)
plocha A[m2] = 1.24952E-02
mom.setr. Iy[m4] = 2.30271E-04
mom.setr. Iw[m8] = 1.51236E-06
Prvek 1 HE-A 320
poloha teziste Y = 150.00 Z = -155.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 7.87059E-07
mom.setr. Iz[m4] = 6.98684E-05
ocel 37



PRUREZ c. 20 (I)
plocha A[m2] = 1.07019E-02
mom.setr. Iy[m4] = 2.39850E-04
mom.setr. Iw[m8] = 3.03616E-07
Prvek 1 I 380
poloha teziste Y = 74.50
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.39000E-06
mom.setr. Iz[m4] = 9.68990E-06
ocel 37
Z = -190.00



PRUREZ c. 21 (HE-B)
plocha A[m2] = 1.18906E-02
mom.setr. Iy[m4] = 1.49693E-04
mom.setr. Iw[m8] = 7.53651E-07
Prvek 1 HE-B 260
poloha teziste Y = 130.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 9.62693E-07
mom.setr. Iz[m4] = 5.13564E-05
ocel 37
Z = -130.00



PRUREZ c. 22 (HE-A)

plocha A[m2] = 1.13112E-02

mom.setr. Iy[m4] = 1.83495E-04

mom.setr. Iw[m8] = 1.19977E-06

Prvek 1 HE-A 300

poloha teziste Y = 150.00

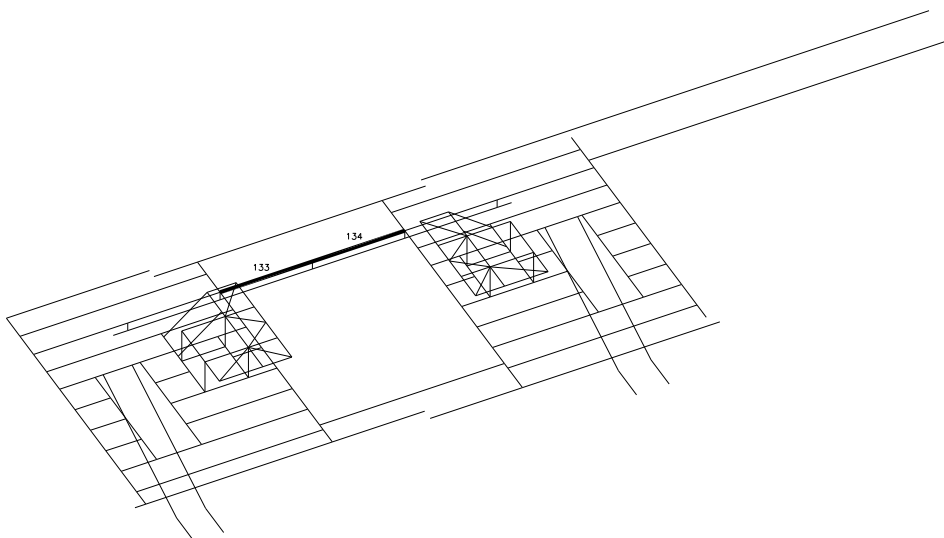
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.85268E-07

mom.setr. Iz[m4] = 6.31112E-05

ocel 37

Z = -145.00



PRUREZ c. 23 (O obraz)

plocha A[m2] = 8.96000E-04

mom.setr. Iy[m4] = 4.70699E-07

mom.setr. Iw[m8] = 0.00000E+00

Prvek 1 O obraz a=60/4 b=60/4

poloha teziste Y = 30.00

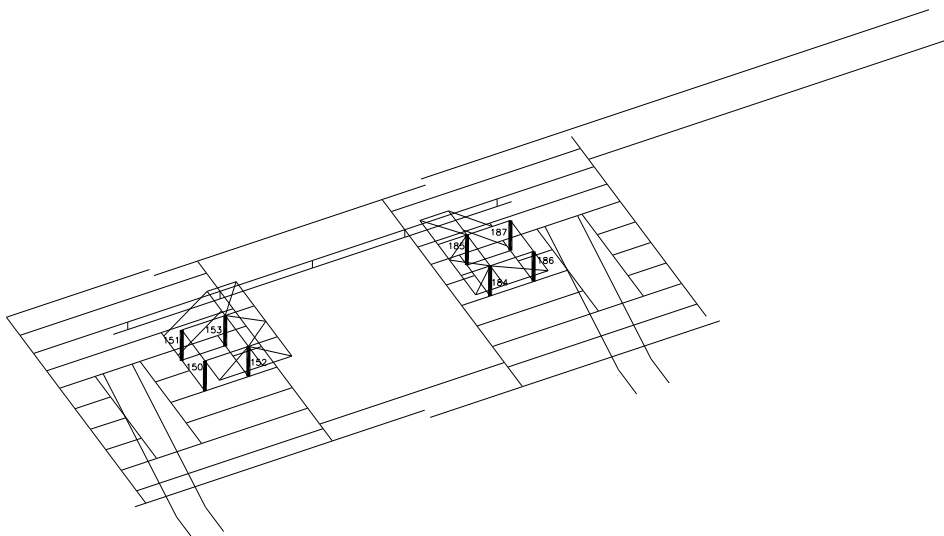
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 7.02464E-07

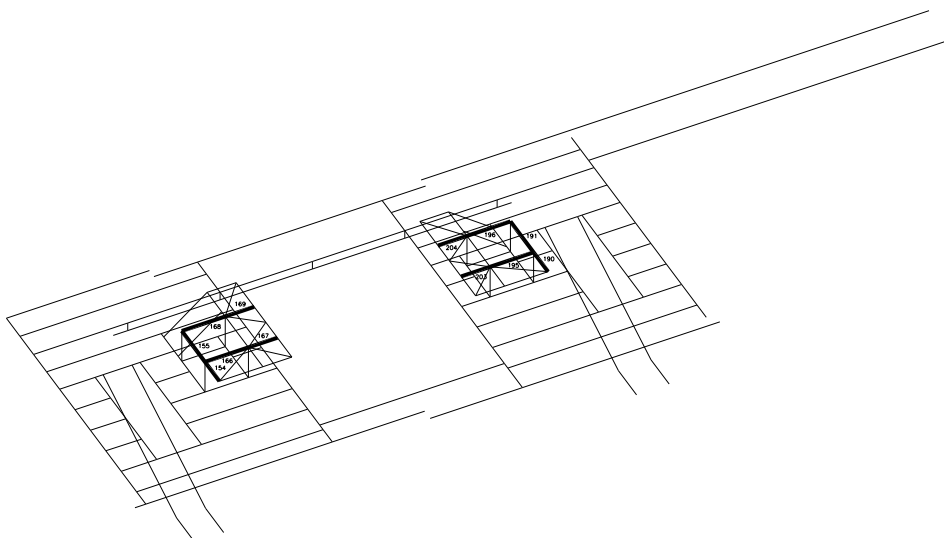
mom.setr. Iz[m4] = 4.70699E-07

ocel 37

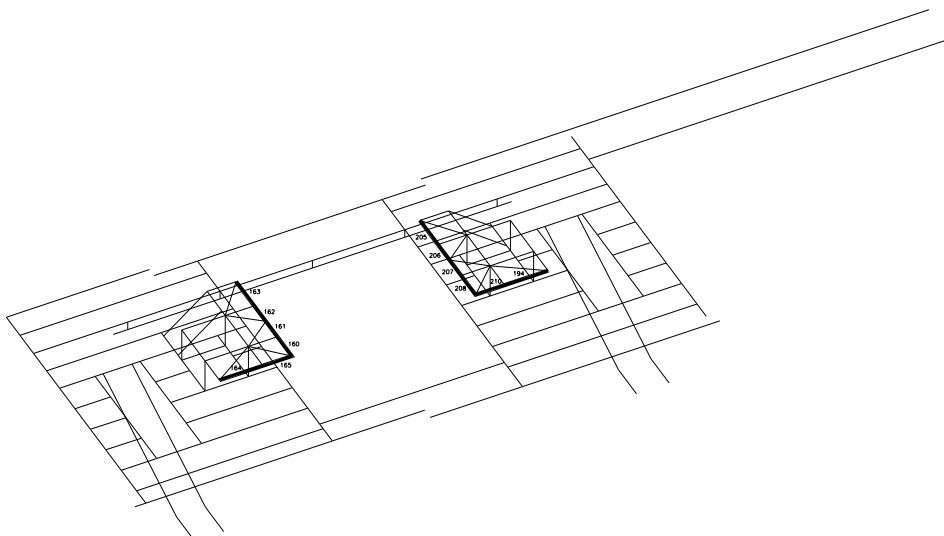
Z = -30.00



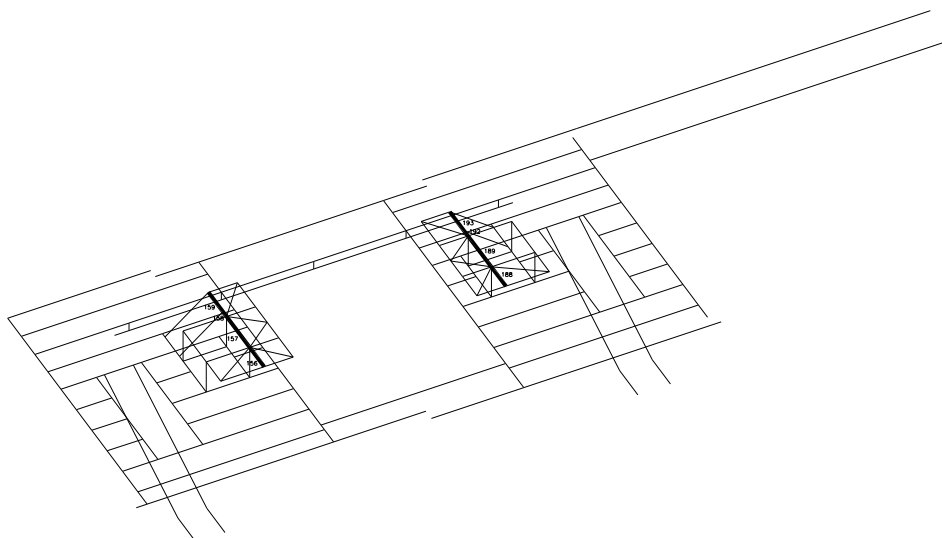
PRUREZ c. 24 (O obraz) rotace prurezu Rx[st] = 0.00
plocha A[m2] = 6.84000E-04 mom.setr. Ix[m4] = 5.55579E-07
mom.setr. Iy[m4] = 3.71412E-07 mom.setr. Iz[m4] = 3.71412E-07
mom.setr. Iw[m8] = 0.00000E+00
Prvek 1 O obraz a=60/3 b=60/3 ocel 37
poloha teziste Y = 30.00 Z = -30.00



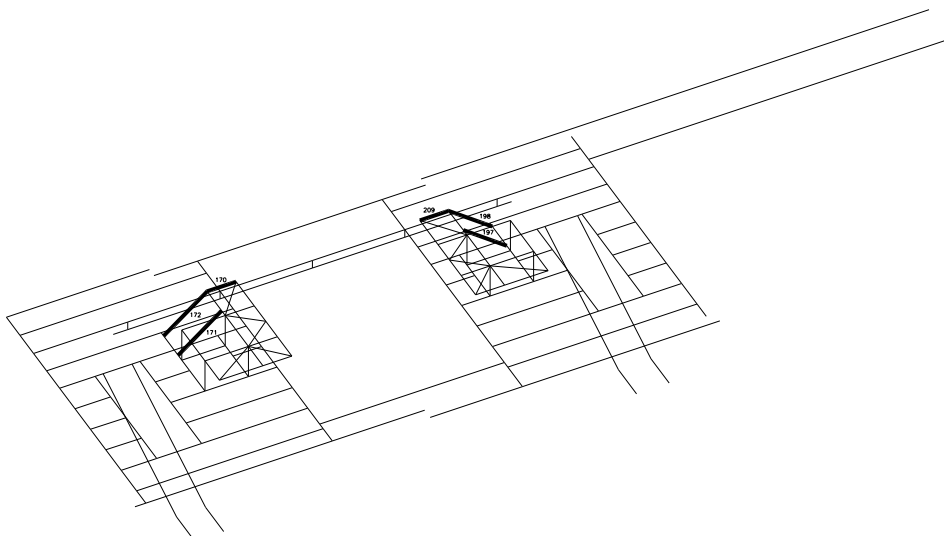
PRUREZ c. 25 (UPE) rotace prurezu Rx[st] = 0.00
plocha A[m2] = 1.08719E-03 mom.setr. Ix[m4] = 1.62000E-08
mom.setr. Iy[m4] = 1.73306E-06 mom.setr. Iz[m4] = 2.28325E-07
mom.setr. Iw[m8] = 3.31313E-10
Prvek 1 UPE 100 ocel 37
poloha teziste Y = 15.33 Z = -50.00



PRUREZ c. 26 (O obraz) rotace prurezu Rx[st] = 0.00
plocha A[m2] = 1.21600E-03 mom.setr. Ix[m4] = 1.52113E-06
mom.setr. Iy[m4] = 1.62569E-06 mom.setr. Iz[m4] = 7.22005E-07
mom.setr. Iw[m8] = 0.00000E+00
Prvek 1 O obraz a=60/4 b=100/4 ocel 37
poloha teziste Y = 30.00 Z = -50.00



PRUREZ c. 27 (Plech) rotace prurezu Rx[st] = 90.00
plocha A[m2] = 1.60000E-03 mom.setr. Ix[m4] = 3.32760E-08
mom.setr. Iy[m4] = 5.33333E-06 mom.setr. Iz[m4] = 8.53333E-09
mom.setr. Iw[m8] = 0.00000E+00
Prvek 1 P 8.200 ocel 37
poloha teziste Y = 4.00 Z = -100.00



PRUREZ c. 28 (Trubka)

plocha A[m2] = 2.40143E-04

mom.setr. Iy[m4] = 2.61492E-08

mom.setr. Iw[m8] = 0.00000E+00

Prvek 1 Tr. D=32/3

poloha teziste Y = 16.00

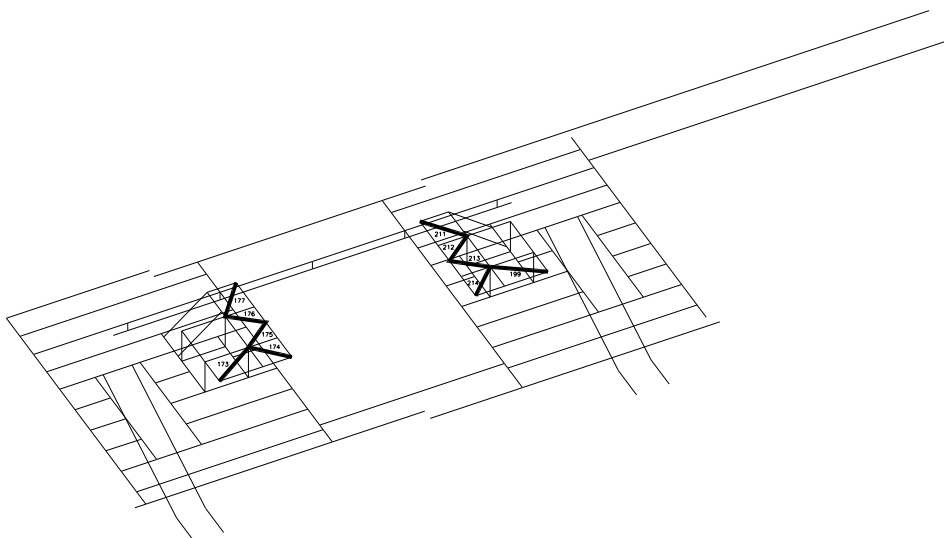
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.22984E-08

mom.setr. Iz[m4] = 2.61492E-08

ocel 37

Z = -16.00



PRUREZ c. 29 (UPE)

plocha A[m2] = 2.35675E-03

mom.setr. Iy[m4] = 1.54319E-05

mom.setr. Iw[m8] = 8.64595E-09

Prvek 1 UPE 200

poloha teziste Y = 23.24

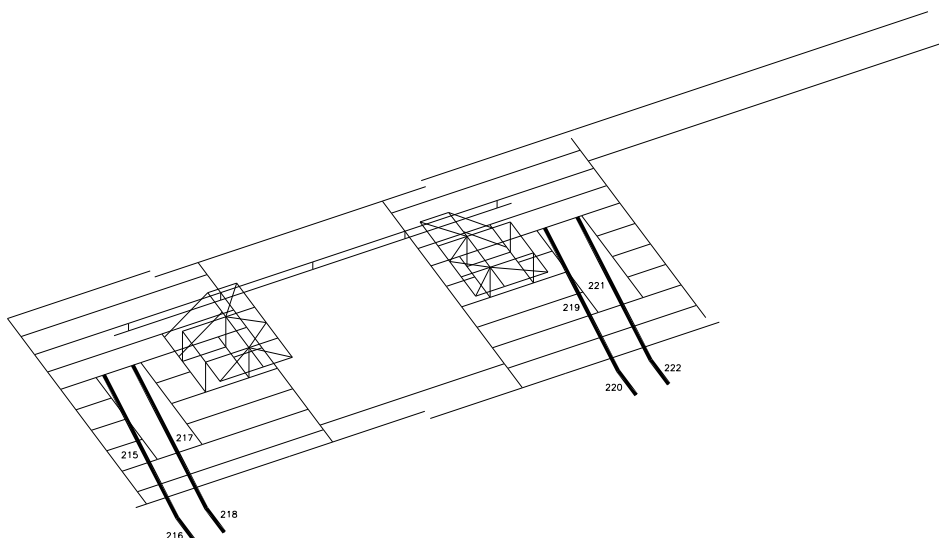
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 4.91000E-08

mom.setr. Iz[m4] = 1.37253E-06

ocel 37

Z = -100.00



M A T E R I A L
Material c. 1 ocel 37

merna hmotnost	[kg/m ³]	: 7850.000
pevnost v tahu	[MPa]	: 210.000
pevnost v tlaku	[MPa]	: 210.000
pevnost ve smyku	[MPa]	: 126.000
modul pružnosti	[MPa]	: 210000.000
Poissonuv součinitel	:	: 0.300
Součinitel tep. roztáznosti	:	: 1.5E-0003

Typický uzel : XYZRxRyRz

Typický prut : XYZMxMyMz

prut	1:	zac kl.: MyMz
prut	16:	kon kl.: MyMz
prut	17:	zac kl.: MyMz
prut	27:	kon kl.: MyMz
prut	28:	zac kl.: MyMz
prut	38:	kon kl.: MyMz
prut	50:	zac kl.: MyMz
prut	53:	kon kl.: MyMz
prut	54:	zac kl.: MyMz
prut	57:	kon kl.: MyMz
prut	60:	kon kl.: MyMz
prut	61:	zac kl.: MyMz
prut	63:	kon kl.: MyMz
prut	64:	zac kl.: MyMz
prut	65:	kon kl.: MyMz
prut	66:	kon kl.: MyMz
prut	68:	kon kl.: MyMz



prut 69: zac kl.: MyMz
prut 72: kon kl.: MyMz
prut 73: zac kl.: MyMz
prut 76: kon kl.: MyMz
prut 77: zac kl.: MyMz kon kl.: MyMz
prut 78: zac kl.: MyMz
prut 79: kon kl.: MyMz
prut 80: zac kl.: MyMz
prut 81: zac kl.: MyMz
prut 87: kon kl.: MyMz
prut 88: zac kl.: MyMz kon kl.: MyMz
prut 89: zac kl.: MyMz kon kl.: MyMz
prut 90: zac kl.: MyMz kon kl.: MyMz
prut 91: zac kl.: MyMz kon kl.: MyMz
prut 92: zac kl.: MyMz
prut 93: zac kl.: MyMz kon kl.: MyMz
prut 94: zac kl.: MyMz kon kl.: MyMz
prut 96: zac kl.: MyMz kon kl.: MyMz
prut 97: kon kl.: MyMz
prut 98: zac kl.: MyMz kon kl.: MyMz
prut 99: zac kl.: MyMz
prut 101: kon kl.: MyMz
prut 102: zac kl.: MyMz kon kl.: MyMz
prut 103: kon kl.: MyMz
prut 106: zac kl.: MyMz kon kl.: MyMz
prut 107: zac kl.: MyMz kon kl.: MyMz
prut 108: zac kl.: MyMz
prut 109: kon kl.: MyMz
prut 110: zac kl.: MyMz
prut 111: zac kl.: MyMz
prut 117: kon kl.: MyMz
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prut 119: zac kl.: MyMz kon kl.: MyMz
prut 120: zac kl.: MyMz
prut 122: kon kl.: MyMz
prut 123: zac kl.: MyMz kon kl.: MyMz
prut 124: zac kl.: MyMz kon kl.: MyMz
prut 125: zac kl.: MyMz kon kl.: MyMz
prut 126: zac kl.: MyMz
prut 128: kon kl.: MyMz
prut 129: zac kl.: MyMz kon kl.: MyMz
prut 132: zac kl.: MyMz
prut 135: zac kl.: MyMz
prut 136: zac kl.: MyMz
prut 137: zac kl.: MyMz
prut 138: zac kl.: MyMz
prut 139: zac kl.: MyMz
prut 140: zac kl.: MyMz
prut 148: zac kl.: MyMz kon kl.: MyMz
prut 150: zac kl.: MyMz
prut 151: zac kl.: MyMz
prut 152: zac kl.: MyMz
prut 153: zac kl.: MyMz
prut 154: zac kl.: MyMz
prut 156: zac kl.: MyMz
prut 159: kon kl.: MyMz
prut 164: zac kl.: MyMz
prut 165: kon kl.: MyMz
prut 167: kon kl.: MyMz
prut 169: kon kl.: MyMz



prut 170: kon kl.: MyMz
prut 171: zac kl.: MyMz kon kl.: MxMyMz
prut 172: zac kl.: MyMz
prut 173: zac kl.: MyMz kon kl.: MyMz
prut 174: zac kl.: MyMz kon kl.: MyMz
prut 175: zac kl.: MyMz kon kl.: MyMz
prut 176: zac kl.: MyMz kon kl.: MyMz
prut 177: zac kl.: MyMz kon kl.: MyMz
prut 178: zac kl.: MyMz
prut 179: kon kl.: MyMz
prut 180: zac kl.: MyMz
prut 181: kon kl.: MyMz
prut 184: zac kl.: MyMz
prut 185: zac kl.: MyMz
prut 186: zac kl.: MyMz
prut 187: zac kl.: MyMz
prut 188: zac kl.: MyMz
prut 190: zac kl.: MyMz
prut 193: kon kl.: MyMz
prut 194: kon kl.: MyMz
prut 197: zac kl.: MxMyMz kon kl.: MyMz
prut 198: zac kl.: MyMz
prut 199: zac kl.: MyMz kon kl.: MyMz
prut 200: zac kl.: MyMz
prut 201: kon kl.: MyMz
prut 202: zac kl.: MyMz
prut 203: zac kl.: XYZMxMyMz
prut 204: zac kl.: XYZMxMyMz
prut 209: zac kl.: MxMyMz
prut 211: zac kl.: MyMz kon kl.: MyMz
prut 212: zac kl.: MyMz kon kl.: MyMz
prut 213: zac kl.: MyMz kon kl.: MyMz
prut 214: zac kl.: MyMz kon kl.: MyMz
prut 215: zac kl.: MyMz
prut 217: zac kl.: MyMz
prut 219: zac kl.: MyMz
prut 221: zac kl.: MyMz

P O D P O R Y

1	1	X Y Z
2	2	X Y Z
3	3	X Y Z
4	6	X Y Z Ry
5	7	X Y Z Ry
6	8	X Y Z
7	9	X Y Z
8	14	X Y Z
9	20	X Y Z
10	32	X Y Z
11	34	X Y Z Ry
12	35	X Y Z Ry
13	37	X Y Z
14	38	X Y Z
15	81	X Y Z Rx
16	109	X Y Z
17	110	X Y Z
18	145	X Y Z
19	147	X Y Z



20	149	X Y Z
21	151	X Y Z

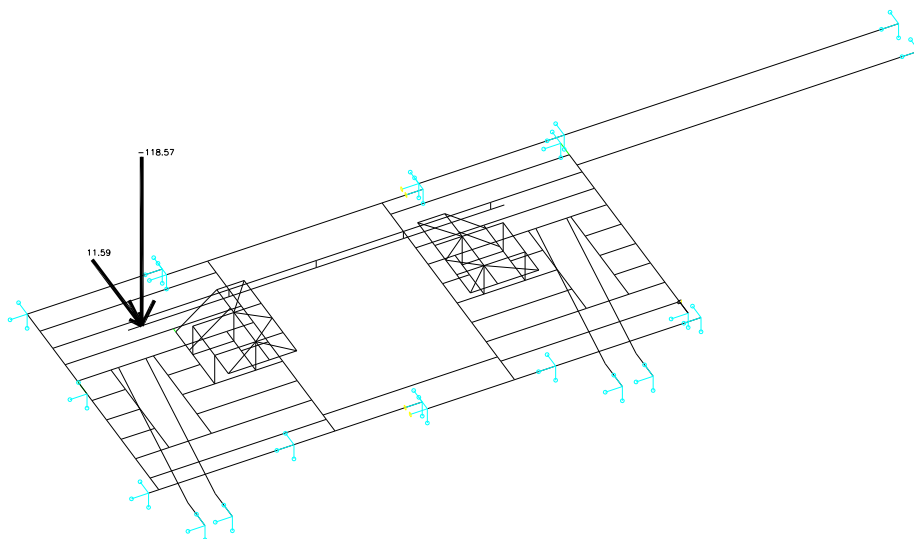
Z A T E Z O V A C I S T A V Y

1.	TIHA	/ 1.350	stale
2.	PODLAHA		stale
3.	STALE REZERVA		stale
4.	UZITNE		stale
5.	DRAZKA		stale
6.	DRAZKA		stale
7.	DRAZKA		stale
8.	DRAZKA		stale
9.	DRAZKA		stale

ZATIZENI V UZLECH - stav 5 (DRAZKA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
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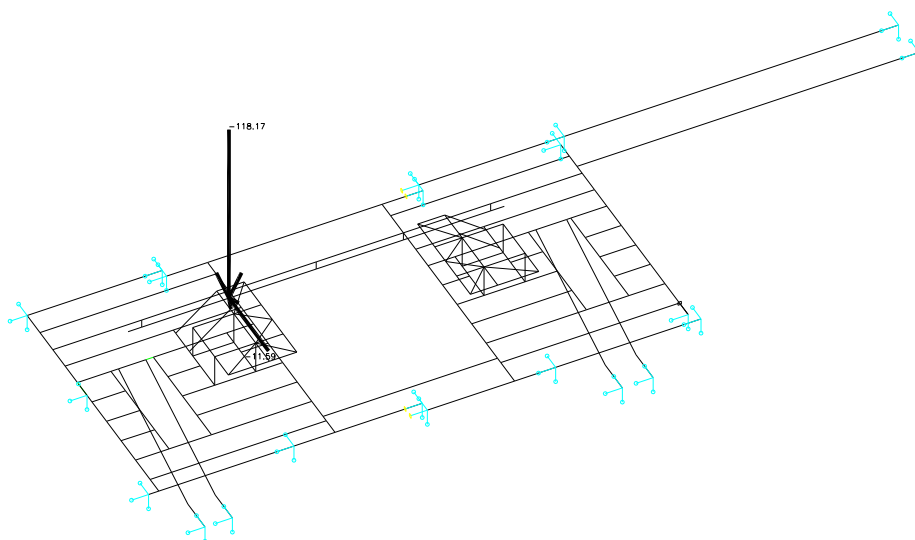
103	11.59		-118.57				1.50
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ZATIZENI V UZLECH - stav 6 (DRAZKA)

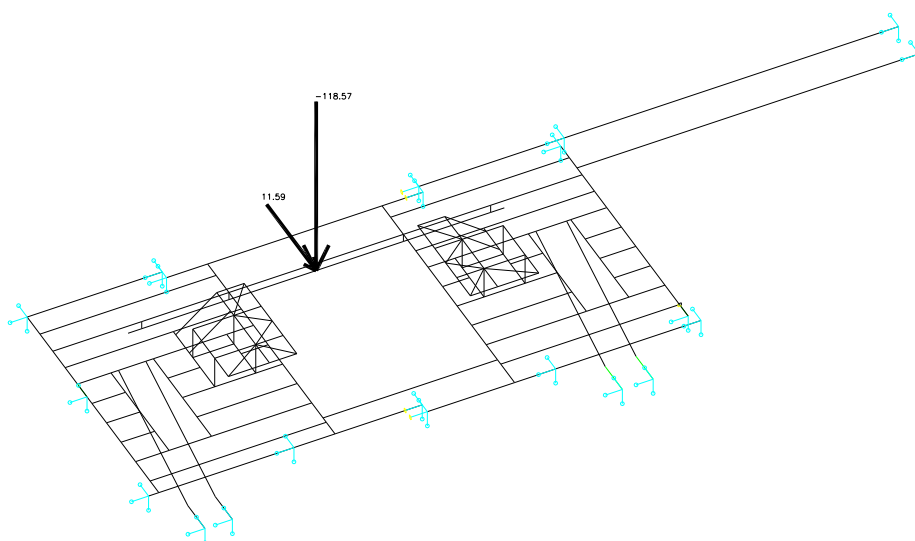
uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
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104	-11.59		-118.17				1.50
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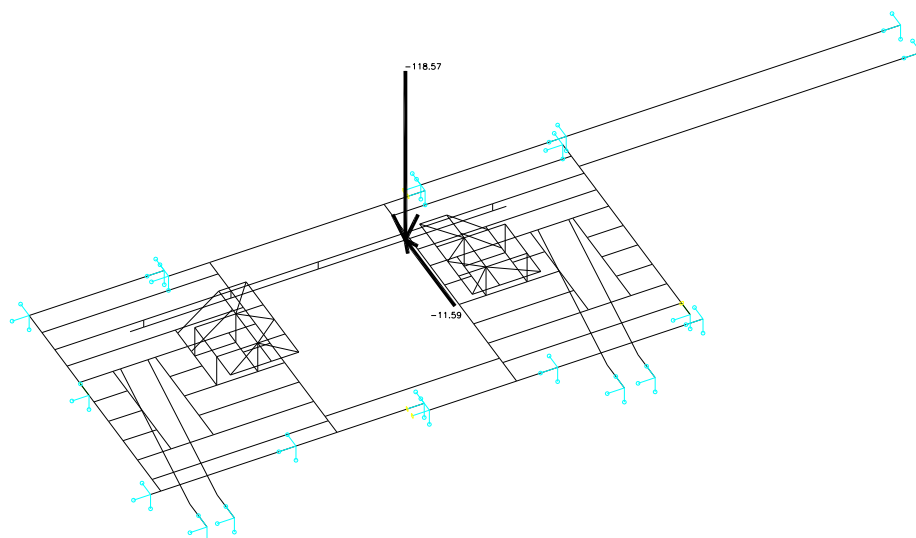
ZATIZENI V UZLECH - stav 7 (DRAZKA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
105	11.59		-118.57				1.50



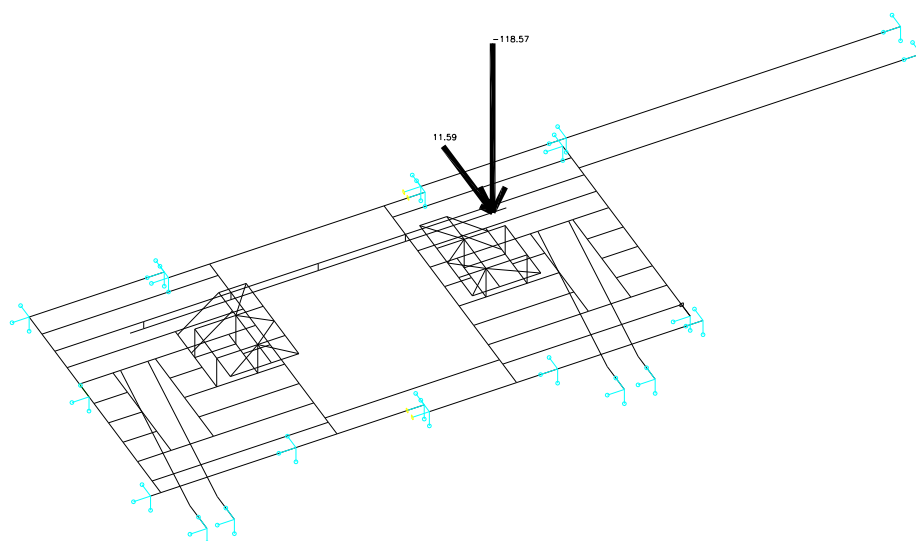
ZATIZENI V UZLECH - stav 8 (DRAZKA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
106	-11.59		-118.57				1.50



ZATÍŽENÍ V UZLECH - stav 9 (DRAŽKA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
107	11.59		-118.57				1.50



SPOJITE IMPULZY - stav 1 (TIHA

/ 1.350)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil		-0.22	glob	0.00%			1.35
			-0.22	del	1.00%			
2	sil		-1.71	glob	0.00%			1.35
			-1.71	del	1.00%			
3	sil		-1.71	glob	0.00%			1.35
			-1.71	del	1.00%			
4	sil		-1.71	glob	0.00%			1.35
			-1.71	del	1.00%			
5	sil		-0.22	glob	0.00%			1.35
			-0.22	del	1.00%			
6	sil		-0.89	glob	0.00%			1.35
			-0.89	del	1.00%			
7	sil		-0.89	glob	0.00%			1.35
			-0.89	del	1.00%			



8 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
9 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
10 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
11 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
12 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
13 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
14 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
15 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
16 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
17 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
18 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
19 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
20 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
21 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
22 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
23 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
24 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
25 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
26 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
27 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
28 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
29 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
30 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
31 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
32 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
33 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
34 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
35 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
36 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
37 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	



38 sil	-1.72 glob	0.00%	1.35
	-1.72 del	1.00%	
39 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
40 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
41 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
42 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
43 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
44 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
45 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
46 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
47 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
48 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
49 sil	-1.79 glob	0.00%	1.35
	-1.79 del	1.00%	
50 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
51 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
52 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
53 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
54 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
55 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
56 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
57 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
58 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
59 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
60 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
61 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
62 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
63 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
64 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
65 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
66 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
67 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	



68 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
69 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
70 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
71 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
72 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
73 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
74 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
75 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
76 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
77 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
78 sil	-1.56 glob	0.00%	1.35
	-1.56 del	1.00%	
79 sil	-1.56 glob	0.00%	1.35
	-1.56 del	1.00%	
80 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
81 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
82 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
83 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
84 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
85 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
86 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
87 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
88 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
89 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
90 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
91 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
92 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
93 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
94 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
95 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
96 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
97 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	



98 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
99 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
100 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
101 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
102 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
103 sil	-1.11 glob	0.00%	1.35
	-1.11 del	1.00%	
104 sil	-1.11 glob	0.00%	1.35
	-1.11 del	1.00%	
105 sil	-1.11 glob	0.00%	1.35
	-1.11 del	1.00%	
106 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
107 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
108 sil	-1.56 glob	0.00%	1.35
	-1.56 del	1.00%	
109 sil	-1.56 glob	0.00%	1.35
	-1.56 del	1.00%	
110 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
111 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
112 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
113 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
114 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
115 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
116 sil	-1.11 glob	0.00%	1.35
	-1.11 del	1.00%	
117 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
118 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
119 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
120 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
121 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
122 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
123 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
124 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
125 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
126 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
127 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	



128 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
129 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
130 sil	-0.91 glob	0.00%	1.35
	-0.91 del	1.00%	
131 sil	-0.91 glob	0.00%	1.35
	-0.91 del	1.00%	
132 sil	-0.91 glob	0.00%	1.35
	-0.91 del	1.00%	
133 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
134 sil	-0.89 glob	0.00%	1.35
	-0.89 del	1.00%	
135 sil	-0.98 glob	0.00%	1.35
	-0.98 del	1.00%	
136 sil	-0.98 glob	0.00%	1.35
	-0.98 del	1.00%	
137 sil	-0.93 glob	0.00%	1.35
	-0.93 del	1.00%	
138 sil	-0.93 glob	0.00%	1.35
	-0.93 del	1.00%	
139 sil	-0.93 glob	0.00%	1.35
	-0.93 del	1.00%	
140 sil	-0.93 glob	0.00%	1.35
	-0.93 del	1.00%	
141 sil	-0.93 glob	0.00%	1.35
	-0.93 del	1.00%	
142 sil	-0.84 glob	0.00%	1.35
	-0.84 del	1.00%	
143 sil	-0.84 glob	0.00%	1.35
	-0.84 del	1.00%	
144 sil	-0.84 glob	0.00%	1.35
	-0.84 del	1.00%	
145 sil	-0.84 glob	0.00%	1.35
	-0.84 del	1.00%	
146 sil	-0.84 glob	0.00%	1.35
	-0.84 del	1.00%	
147 sil	-0.84 glob	0.00%	1.35
	-0.84 del	1.00%	
148 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
149 sil	-1.11 glob	0.00%	1.35
	-1.11 del	1.00%	
150 sil	-0.07 glob	0.00%	1.35
	-0.07 del	1.00%	
151 sil	-0.07 glob	0.00%	1.35
	-0.07 del	1.00%	
152 sil	-0.07 glob	0.00%	1.35
	-0.07 del	1.00%	
153 sil	-0.07 glob	0.00%	1.35
	-0.07 del	1.00%	
154 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
155 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
156 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
157 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	



158 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
159 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
160 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
161 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
162 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
163 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
164 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
165 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
166 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
167 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
168 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
169 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
170 sil	-0.13 glob	0.00%	1.35
	-0.13 del	1.00%	
171 sil	-0.13 glob	0.00%	1.35
	-0.13 del	1.00%	
172 sil	-0.13 glob	0.00%	1.35
	-0.13 del	1.00%	
173 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
174 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
175 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
176 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
177 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
178 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
179 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
180 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
181 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
182 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
183 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
184 sil	-0.07 glob	0.00%	1.35
	-0.07 del	1.00%	
185 sil	-0.07 glob	0.00%	1.35
	-0.07 del	1.00%	
186 sil	-0.07 glob	0.00%	1.35
	-0.07 del	1.00%	
187 sil	-0.07 glob	0.00%	1.35
	-0.07 del	1.00%	



188 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
189 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
190 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
191 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
192 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
193 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
194 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
195 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
196 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
197 sil	-0.13 glob	0.00%	1.35
	-0.13 del	1.00%	
198 sil	-0.13 glob	0.00%	1.35
	-0.13 del	1.00%	
199 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
200 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
201 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
202 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
203 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
204 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
205 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
206 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
207 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
208 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
209 sil	-0.13 glob	0.00%	1.35
	-0.13 del	1.00%	
210 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
211 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
212 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
213 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
214 sil	-0.02 glob	0.00%	1.35
	-0.02 del	1.00%	
215 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
216 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
217 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	



218 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
219 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
220 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
221 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
222 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	

SPOJITE IMPULZY - stav 2 (PODLAHA)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
1 sil				-0.44 glob	0.00%			1.35
				-0.44 prum	1.00%			
2 sil				-0.08 glob	0.00%			1.35
				-0.08 prum	1.00%			
4 sil				-0.08 glob	0.00%			1.35
				-0.08 prum	1.00%			
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				-0.44 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			
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				-0.35 prum	1.00%			



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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	



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	-0.35 prum	1.00%	
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	-0.35 prum	1.00%	
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	-0.28 prum	1.00%	
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	-0.27 prum	1.00%	
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	-0.27 prum	1.00%	
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	-0.29 prum	1.00%	
81 sil	-0.29 glob	0.00%	1.35
	-0.29 prum	1.00%	
82 sil	-0.43 glob	0.00%	1.35
	-0.43 prum	1.00%	
83 sil	-0.29 glob	0.00%	1.35
	-0.29 prum	1.00%	
84 sil	-0.43 glob	0.00%	1.35
	-0.43 prum	1.00%	
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	-0.29 prum	1.00%	
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	-0.26 prum	1.00%	
87 sil	-0.29 glob	0.00%	1.35
	-0.29 prum	1.00%	
88 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
89 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
90 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
91 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
92 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	



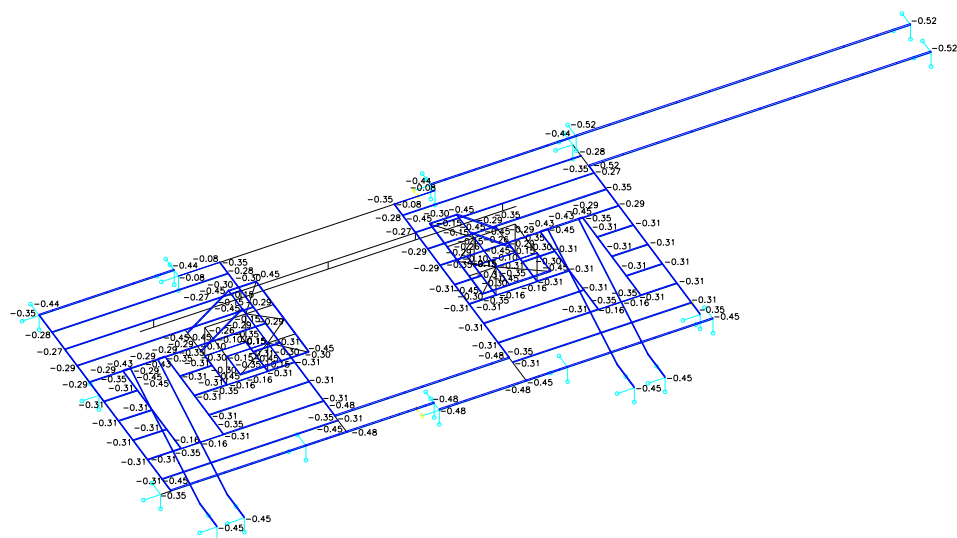
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	-0.10 prum	1.00%	
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	-0.31 prum	1.00%	
95 sil	-0.16 glob	0.00%	1.35
	-0.16 prum	1.00%	
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	-0.31 prum	1.00%	
97 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
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	-0.31 prum	1.00%	
99 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
100 sil	-0.16 glob	0.00%	1.35
	-0.16 prum	1.00%	
101 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
102 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
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	-0.45 prum	1.00%	
104 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
105 sil	-0.48 glob	0.00%	1.35
	-0.48 prum	1.00%	
106 sil	-0.48 glob	0.00%	1.35
	-0.48 prum	1.00%	
107 sil	-0.28 glob	0.00%	1.35
	-0.28 prum	1.00%	
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	-0.27 prum	1.00%	
109 sil	-0.27 glob	0.00%	1.35
	-0.27 prum	1.00%	
110 sil	-0.29 glob	0.00%	1.35
	-0.29 prum	1.00%	
111 sil	-0.29 glob	0.00%	1.35
	-0.29 prum	1.00%	
112 def	glob	0.00%	1.35
	prum	1.00%	
sil	-0.26 glob	0.00%	1.35
	-0.26 prum	1.00%	
113 sil	-0.29 glob	0.00%	1.35
	-0.29 prum	1.00%	
114 sil	-0.43 glob	0.00%	1.35
	-0.43 prum	1.00%	
115 sil	-0.43 glob	0.00%	1.35
	-0.43 prum	1.00%	
116 sil	-0.43 glob	0.00%	1.35
	-0.43 prum	1.00%	
117 sil	-0.29 glob	0.00%	1.35
	-0.29 prum	1.00%	
118 sil	-0.10 glob	0.00%	1.35
	-0.10 prum	1.00%	
119 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
120 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
121 sil	-0.16 glob	0.00%	1.35
	-0.16 prum	1.00%	



122 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
123 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
124 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
125 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
126 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
127 sil	-0.16 glob	0.00%	1.35
	-0.16 prum	1.00%	
128 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
129 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
130 sil	-0.48 glob	0.00%	1.35
	-0.48 prum	1.00%	
131 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
132 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
135 sil	-0.52 glob	0.00%	1.35
	-0.52 prum	1.00%	
136 sil	-0.52 glob	0.00%	1.35
	-0.52 prum	1.00%	
148 sil	-0.31 glob	0.00%	1.35
	-0.31 prum	1.00%	
154 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
156 sil	-0.15 glob	0.00%	1.35
	-0.15 del	1.00%	
157 sil	-0.15 glob	0.00%	1.35
	-0.15 del	1.00%	
158 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
159 sil	-0.15 glob	0.00%	1.35
	-0.15 del	1.00%	
160 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
161 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
162 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
163 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
164 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
165 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
166 sil	-0.15 glob	0.00%	1.35
	-0.15 del	1.00%	
170 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
171 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
172 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
181 sil	-0.29 glob	0.00%	1.35
	-0.29 prum	1.00%	



182 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
183 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
188 sil	-0.15 glob	0.00%	1.35
	-0.15 del	1.00%	
189 sil	-0.15 glob	0.00%	1.35
	-0.15 del	1.00%	
190 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
193 sil	-0.15 glob	0.00%	1.35
	-0.15 del	1.00%	
194 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
195 sil	-0.15 glob	0.00%	1.35
	-0.15 del	1.00%	
197 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
198 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
202 sil	-0.35 glob	0.00%	1.35
	-0.35 prum	1.00%	
205 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
206 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
207 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
208 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
209 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
210 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
215 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
216 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
217 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
218 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
219 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
220 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
221 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
222 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	



SPOJITE IMPULZY - stav 3 (STALE REZERVA)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil		-1.87	glob	0.00%			1.35
			-1.87	prum	1.00%			
	sil		-1.80	glob	0.00%			1.35
			-1.80	prum	1.00%			
2	sil		-1.13	glob	0.00%			1.35
			-1.13	prum	1.00%			
4	sil		-1.13	glob	0.00%			1.35
			-1.13	prum	1.00%			
5	sil		-1.87	glob	0.00%			1.35
			-1.87	prum	1.00%			
66	sil		-3.60	glob	0.00%			1.35
			-3.60	prum	1.00%			
77	sil		-3.75	glob	0.00%			1.35
			-3.75	prum	1.00%			
78	sil		-3.67	glob	0.00%			1.35
			-3.67	prum	1.00%			
79	sil		-3.67	glob	0.00%			1.35
			-3.67	prum	1.00%			
80	sil		-3.60	glob	0.00%			1.35
			-3.60	prum	1.00%			
81	sil		-3.92	glob	0.00%			1.35
			-3.92	prum	1.00%			
82	sil		-1.80	glob	0.00%			1.35
			-1.80	prum	1.00%			
83	sil		-1.80	glob	0.00%			1.35
			-1.80	prum	1.00%			
84	sil		-1.80	glob	0.00%			1.35
			-1.80	prum	1.00%			
85	sil		-3.92	glob	0.00%			1.35
			-3.92	prum	1.00%			
86	sil		-3.20	glob	0.00%			1.35
			-3.20	prum	1.00%			
87	sil		-3.92	glob	0.00%			1.35
			-3.92	prum	1.00%			
88	sil		-4.25	glob	0.00%			1.35
			-4.25	prum	1.00%			
89	sil		-4.25	glob	0.00%			1.35
			-4.25	prum	1.00%			



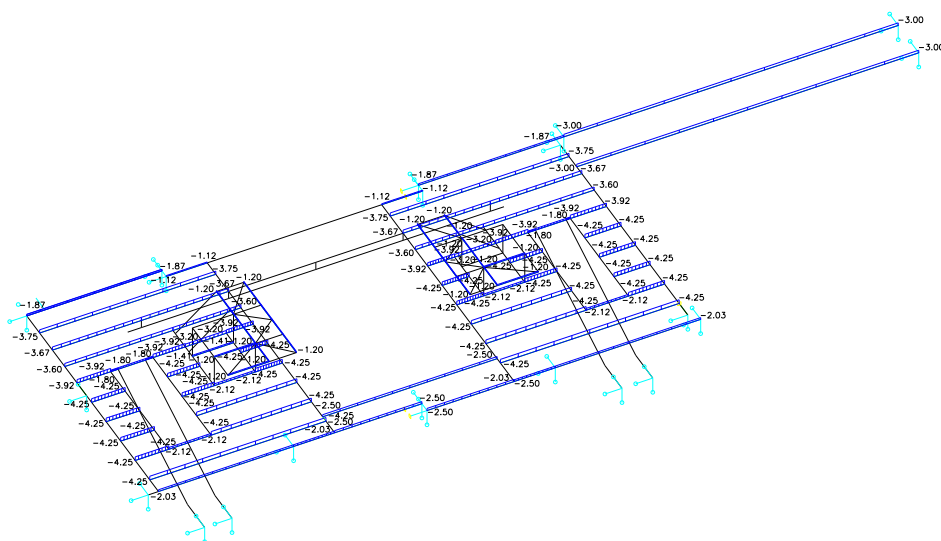
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	-4.25 prum	1.00%	
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	-4.25 prum	1.00%	
92 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
93 sil	-1.41 glob	0.00%	1.35
	-1.41 prum	1.00%	
94 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
95 sil	-2.13 glob	0.00%	1.35
	-2.13 prum	1.00%	
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	-4.25 prum	1.00%	
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	-4.25 prum	1.00%	
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	-4.25 prum	1.00%	
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	-4.25 prum	1.00%	
100 sil	-2.13 glob	0.00%	1.35
	-2.13 prum	1.00%	
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	-4.25 prum	1.00%	
102 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
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	-2.03 prum	1.00%	
104 sil	-2.03 glob	0.00%	1.35
	-2.03 prum	1.00%	
105 sil	-2.50 glob	0.00%	1.35
	-2.50 prum	1.00%	
106 sil	-2.50 glob	0.00%	1.35
	-2.50 prum	1.00%	
107 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
108 sil	-3.67 glob	0.00%	1.35
	-3.67 prum	1.00%	
109 sil	-3.67 glob	0.00%	1.35
	-3.67 prum	1.00%	
110 sil	-3.60 glob	0.00%	1.35
	-3.60 prum	1.00%	
111 sil	-3.92 glob	0.00%	1.35
	-3.92 prum	1.00%	
112 sil	-3.20 glob	0.00%	1.35
	-3.20 prum	1.00%	
113 sil	-3.92 glob	0.00%	1.35
	-3.92 prum	1.00%	
114 sil	-1.80 glob	0.00%	1.35
	-1.80 prum	1.00%	
115 sil	-1.80 glob	0.00%	1.35
	-1.80 prum	1.00%	
116 sil	-1.80 glob	0.00%	1.35
	-1.80 prum	1.00%	
117 sil	-3.92 glob	0.00%	1.35
	-3.92 prum	1.00%	
119 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
120 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	



121 sil	-2.13 glob	0.00%	1.35
	-2.13 prum	1.00%	
122 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
123 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
124 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
125 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
126 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
127 sil	-2.13 glob	0.00%	1.35
	-2.13 prum	1.00%	
128 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
129 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
130 sil	-2.50 glob	0.00%	1.35
	-2.50 prum	1.00%	
131 sil	-2.03 glob	0.00%	1.35
	-2.03 prum	1.00%	
132 sil	-2.03 glob	0.00%	1.35
	-2.03 prum	1.00%	
135 sil	-3.00 glob	0.00%	1.35
	-3.00 prum	1.00%	
136 sil	-3.00 glob	0.00%	1.35
	-3.00 prum	1.00%	
148 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
156 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
157 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
158 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
159 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
160 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
161 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
162 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
163 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
164 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
166 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
181 sil	-3.60 glob	0.00%	1.35
	-3.60 prum	1.00%	
188 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
189 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
193 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
194 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	



195 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
205 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
206 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
207 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	
208 sil	-1.20 glob	0.00%	1.35
	-1.20 prum	1.00%	



SPOJITE IMPULZY - stav 4 (UZITNE)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
1 sil				-5.63 glob	0.00%			1.50
				-5.63 prum	1.00%			
2 sil				-3.37 glob	0.00%			1.50
				-3.37 prum	1.00%			
4 sil				-3.37 glob	0.00%			1.50
				-3.37 prum	1.00%			
5 sil				-5.63 glob	0.00%			1.50
				-5.63 prum	1.00%			
66 sil				-10.80 glob	0.00%			1.50
				-10.80 prum	1.00%			
77 sil				-11.25 glob	0.00%			1.50
				-11.25 prum	1.00%			
78 sil				-11.02 glob	0.00%			1.50
				-11.02 prum	1.00%			
79 sil				-11.02 glob	0.00%			1.50
				-11.02 prum	1.00%			
80 sil				-10.80 glob	0.00%			1.50
				-10.80 prum	1.00%			
81 sil				-11.77 glob	0.00%			1.50
				-11.77 prum	1.00%			
82 sil				-5.40 glob	0.00%			1.50
				-5.40 prum	1.00%			
83 sil				-5.40 glob	0.00%			1.50
				-5.40 prum	1.00%			
84 sil				-5.40 glob	0.00%			1.50
				-5.40 prum	1.00%			
85 sil				-11.77 glob	0.00%			1.50



	-11.77	prum	1.00%	
86 sil	-9.60	glob	0.00%	1.50
	-9.60	prum	1.00%	
87 sil	-11.77	glob	0.00%	1.50
	-11.77	prum	1.00%	
88 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
89 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
90 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
91 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
92 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
93 sil	-4.20	glob	0.00%	1.50
	-4.20	prum	1.00%	
94 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
95 sil	-6.38	glob	0.00%	1.50
	-6.38	prum	1.00%	
96 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
97 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
98 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
99 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
100 sil	-6.38	glob	0.00%	1.50
	-6.38	prum	1.00%	
101 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
102 sil	-12.45	glob	0.00%	1.50
	-12.45	prum	1.00%	
103 sil	-12.45	glob	0.00%	1.50
	-12.45	prum	1.00%	
104 sil	-12.45	glob	0.00%	1.50
	-12.45	prum	1.00%	
105 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
106 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
107 sil	-11.25	glob	0.00%	1.50
	-11.25	prum	1.00%	
108 sil	-11.02	glob	0.00%	1.50
	-11.02	prum	1.00%	
109 sil	-11.02	glob	0.00%	1.50
	-11.02	prum	1.00%	
110 sil	-10.80	glob	0.00%	1.50
	-10.80	prum	1.00%	
111 sil	-11.77	glob	0.00%	1.50
	-11.77	prum	1.00%	
112 sil	-9.60	glob	0.00%	1.50
	-9.60	prum	1.00%	
113 sil	-11.77	glob	0.00%	1.50
	-11.77	prum	1.00%	
114 sil	-5.40	glob	0.00%	1.50
	-5.40	prum	1.00%	
115 sil	-5.40	glob	0.00%	1.50



	-5.40	prum	1.00%	
116 sil	-5.40	glob	0.00%	1.50
	-5.40	prum	1.00%	
117 sil	-11.77	glob	0.00%	1.50
	-11.77	prum	1.00%	
118 sil	-4.20	glob	0.00%	1.50
	-4.20	prum	1.00%	
119 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
120 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
121 sil	-6.38	glob	0.00%	1.50
	-6.38	prum	1.00%	
122 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
123 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
124 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
125 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
126 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
127 sil	-6.38	glob	0.00%	1.50
	-6.38	prum	1.00%	
128 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
129 sil	-12.45	glob	0.00%	1.50
	-12.45	prum	1.00%	
130 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
131 sil	-12.45	glob	0.00%	1.50
	-12.45	prum	1.00%	
132 sil	-12.45	glob	0.00%	1.50
	-12.45	prum	1.00%	
135 sil	-9.00	glob	0.00%	1.50
	-9.00	prum	1.00%	
136 sil	-9.00	glob	0.00%	1.50
	-9.00	prum	1.00%	
148 sil	-12.75	glob	0.00%	1.50
	-12.75	prum	1.00%	
181 sil	-10.80	glob	0.00%	1.50
	-10.80	prum	1.00%	
215 sil	-1.20	glob	0.00%	1.50
	-1.20	del	1.00%	
216 sil	-1.20	glob	0.00%	1.50
	-1.20	del	1.00%	
217 sil	-1.20	glob	0.00%	1.50
	-1.20	del	1.00%	
218 sil	-1.20	glob	0.00%	1.50
	-1.20	del	1.00%	
219 sil	-1.20	glob	0.00%	1.50
	-1.20	del	1.00%	
220 sil	-1.20	glob	0.00%	1.50
	-1.20	del	1.00%	
221 sil	-1.20	glob	0.00%	1.50
	-1.20	del	1.00%	
222 sil	-1.20	glob	0.00%	1.50
	-1.20	del	1.00%	



Kombinace c. 6

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 7

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	7	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 8

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	7	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 9

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	7	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 10

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 11

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 12

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 13



zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	9	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 14

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	9	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 15

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	9	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0

R E Z Y N A P R U T E C H
prut X Ly Lz Lw L1 stred Y stred Z

1	0.000%	1.000	1.000	1.000		
	1.000%	1.000	1.000	1.000		
2	0.000%	6.250	1.000	1.000		
	1.000%	6.250	1.000	1.000		
3	0.000%	1.470	1.000	1.000		
	1.000%	1.470	1.000	1.000		
4	0.000%	6.250	1.000	1.000		
	1.000%	6.250	1.000	1.000		
5	0.000%	1.000	1.000	1.000		
	1.000%	1.000	1.000	1.000		
6	0.000%	4.670	1.000	1.000		
	1.000%	4.670	1.000	1.000		
7	0.000%	4.670	1.000	1.000		
	1.000%	4.670	1.000	1.000		
8	0.000%	4.861	1.000	1.000		
	1.000%	4.861	1.000	1.000		
9	0.000%	4.861	1.000	1.000		
	1.000%	4.861	1.000	1.000		
10	0.000%	6.250	1.000	1.000		
	1.000%	6.250	1.000	1.000		
11	0.000%	12.308	1.000	1.000		
	1.000%	12.308	1.000	1.000		
12	0.000%	5.647	1.000	1.000		
	1.000%	5.647	1.000	1.000		
13	0.000%	5.647	1.000	1.000		
	1.000%	5.647	1.000	1.000		
14	0.000%	5.647	1.000	1.000		
	1.000%	5.647	1.000	1.000		
15	0.000%	5.647	1.000	1.000		
	1.000%	5.647	1.000	1.000		
16	0.000%	9.411	1.000	1.000		
	1.000%	9.411	1.000	1.000		
17	0.000%	14.800	1.000	1.000		
	1.000%	14.800	1.000	1.000		
18	0.000%	9.866	1.000	1.000		



	1.000%	9.866	1.000	1.000
19	0.000%	10.277	1.000	1.000
	1.000%	10.277	1.000	1.000
20	0.000%	10.277	1.000	1.000
	1.000%	10.277	1.000	1.000
22	0.000%	8.705	1.000	1.000
	1.000%	8.705	1.000	1.000
23	0.000%	8.705	1.000	1.000
	1.000%	8.705	1.000	1.000
24	0.000%	8.705	1.000	1.000
	1.000%	8.705	1.000	1.000
25	0.000%	13.214	1.000	1.000
	1.000%	13.214	1.000	1.000
26	0.000%	38.947	1.000	1.000
	1.000%	38.947	1.000	1.000
27	0.000%	14.509	1.000	1.000
	1.000%	14.509	1.000	1.000
28	0.000%	14.800	1.000	1.000
	1.000%	14.800	1.000	1.000
29	0.000%	9.866	1.000	1.000
	1.000%	9.866	1.000	1.000
30	0.000%	10.641	1.000	1.000
	1.000%	10.641	1.000	1.000
31	0.000%	10.641	1.000	1.000
	1.000%	10.641	1.000	1.000
32	0.000%	9.058	1.000	1.000
	1.000%	9.058	1.000	1.000
33	0.000%	9.058	1.000	1.000
	1.000%	9.058	1.000	1.000
34	0.000%	9.058	1.000	1.000
	1.000%	9.058	1.000	1.000
35	0.000%	9.058	1.000	1.000
	1.000%	9.058	1.000	1.000
37	0.000%	11.666	1.000	1.000
	1.000%	11.666	1.000	1.000
38	0.000%	15.098	1.000	1.000
	1.000%	15.098	1.000	1.000
39	0.000%	10.276	1.000	1.000
	1.000%	10.276	1.000	1.000
40	0.000%	16.556	1.000	1.000
	1.000%	16.556	1.000	1.000
41	0.000%	24.833	1.000	1.000
	1.000%	24.833	1.000	1.000
42	0.000%	10.694	1.000	1.000
	1.000%	10.694	1.000	1.000
43	0.000%	10.694	1.000	1.000
	1.000%	10.694	1.000	1.000
44	0.000%	8.764	1.000	1.000
	1.000%	8.764	1.000	1.000
45	0.000%	8.764	1.000	1.000
	1.000%	8.764	1.000	1.000
46	0.000%	8.764	1.000	1.000
	1.000%	8.764	1.000	1.000
47	0.000%	8.764	1.000	1.000
	1.000%	8.764	1.000	1.000
48	0.000%	8.764	1.000	1.000
	1.000%	8.764	1.000	1.000
49	0.000%	14.600	1.000	1.000
	1.000%	14.600	1.000	1.000
50	0.000%	4.000	1.000	1.000



	1.000%	4.000	1.000	1.000
51	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
52	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
53	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
54	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
55	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
56	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
57	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
58	0.000%	5.862	1.000	1.000
	1.000%	3.035	1.000	1.000
59	0.000%	5.862	1.000	1.000
	1.000%	5.862	1.000	1.000
60	0.000%	9.411	1.000	1.000
	1.000%	9.411	1.000	1.000
61	0.000%	5.862	1.000	1.000
	1.000%	5.862	1.000	1.000
62	0.000%	5.862	1.000	1.000
	1.000%	5.862	1.000	1.000
63	0.000%	9.411	1.000	1.000
	1.000%	9.411	1.000	1.000
64	0.000%	5.862	1.000	1.000
	1.000%	5.862	1.000	1.000
65	0.000%	9.411	1.000	1.000
	1.000%	9.411	1.000	1.000
66	0.000%	5.862	1.000	1.000
	1.000%	5.862	1.000	1.000
67	0.000%	5.862	1.000	1.000
	1.000%	5.862	1.000	1.000
68	0.000%	9.411	1.000	1.000
	1.000%	9.411	1.000	1.000
69	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
70	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
71	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
72	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
73	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
74	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
75	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
76	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
77	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
78	0.000%	1.466	1.000	1.000
	1.000%	1.466	1.000	1.000
79	0.000%	1.667	1.000	1.000
	1.000%	1.667	1.000	1.000
80	0.000%	1.000	1.000	1.000



	1.000%	1.000	1.000	1.000
81	0.000%	4.337	1.000	1.000
	1.000%	4.337	1.000	1.000
82	0.000%	5.630	1.000	1.000
	1.000%	5.630	1.000	1.000
83	0.000%	6.437	1.000	1.000
	1.000%	6.437	1.000	1.000
84	0.000%	5.630	1.000	1.000
	1.000%	5.630	1.000	1.000
85	0.000%	5.461	1.000	1.000
	1.000%	5.461	1.000	1.000
86	0.000%	4.291	1.000	1.000
	1.000%	4.291	1.000	1.000
87	0.000%	6.543	1.000	1.000
	1.000%	6.543	1.000	1.000
88	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
89	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
90	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
91	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
92	0.000%	3.209	1.000	1.000
	1.000%	3.209	1.000	1.000
93	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
94	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
95	0.000%	2.441	1.000	1.000
	1.000%	2.441	1.000	1.000
96	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
97	0.000%	3.723	1.000	1.000
	1.000%	3.723	1.000	1.000
98	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
99	0.000%	4.337	1.000	1.000
	1.000%	4.337	1.000	1.000
100	0.000%	4.150	1.000	1.000
	1.000%	4.150	1.000	1.000
101	0.000%	1.157	1.000	1.000
	1.000%	1.157	1.000	1.000
102	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
104	0.000%	3.125	1.000	1.000
	1.000%	3.125	1.000	1.000
105	0.000%	1.149	1.000	1.000
	1.000%	1.149	1.000	1.000
106	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
107	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
108	0.000%	1.667	1.000	1.000
	1.000%	1.667	1.000	1.000
109	0.000%	1.466	1.000	1.000
	1.000%	1.466	1.000	1.000
110	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
111	0.000%	6.543	1.000	1.000



	1.000%	6.543	1.000	1.000
112	0.000%	4.291	1.000	1.000
	1.000%	4.291	1.000	1.000
113	0.000%	5.461	1.000	1.000
	1.000%	5.461	1.000	1.000
114	0.000%	5.630	1.000	1.000
	1.000%	5.630	1.000	1.000
115	0.000%	6.437	1.000	1.000
	1.000%	6.437	1.000	1.000
116	0.000%	5.630	1.000	1.000
	1.000%	5.630	1.000	1.000
117	0.000%	4.337	1.000	1.000
	1.000%	4.337	1.000	1.000
118	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
119	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
120	0.000%	3.723	1.000	1.000
	1.000%	3.723	1.000	1.000
121	0.000%	2.441	1.000	1.000
	1.000%	2.441	1.000	1.000
122	0.000%	3.209	1.000	1.000
	1.000%	3.209	1.000	1.000
123	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
124	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
125	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
126	0.000%	1.157	1.000	1.000
	1.000%	1.157	1.000	1.000
127	0.000%	4.150	1.000	1.000
	1.000%	4.150	1.000	1.000
128	0.000%	4.337	1.000	1.000
	1.000%	4.337	1.000	1.000
129	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
130	0.000%	1.149	1.000	1.000
	1.000%	1.149	1.000	1.000
131	0.000%	3.125	1.000	1.000
	1.000%	3.125	1.000	1.000
132	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
133	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
134	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
135	0.000%	1.000	0.125	0.125
	1.000%	1.000	0.125	0.125
136	0.000%	1.000	0.125	0.125
	1.000%	1.000	0.125	0.125
137	0.000%	2.000	2.000	2.000
	1.000%	2.000	2.000	2.000
138	0.000%	2.000	2.000	2.000
	1.000%	2.000	2.000	2.000
139	0.000%	2.000	2.000	2.000
	1.000%	2.000	2.000	2.000
140	0.000%	2.000	2.000	2.000
	1.000%	2.000	2.000	2.000
141	0.000%	2.000	2.000	2.000



	1.000%	2.000	2.000	2.000
142	0.000%	2.000	2.000	2.000
	1.000%	2.000	2.000	2.000
143	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
144	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
145	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
146	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
147	0.000%	2.000	2.000	2.000
	1.000%	2.000	2.000	2.000
148	0.000%	1.756	1.000	1.000
	1.000%	1.756	1.000	1.000
149	0.000%	21.250	2.000	2.000
	1.000%	21.250	2.000	2.000
150	0.000%	2.700	2.700	2.700
151	0.000%	2.700	2.700	2.700
152	0.000%	2.700	2.700	2.700
153	0.000%	2.700	2.700	2.700
154	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
155	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
156	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
157	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
158	0.000%	10.000	5.000	1.000
	1.000%	10.000	5.000	1.000
159	0.000%	2.500	1.250	1.000
	1.000%	2.500	1.250	1.000
160	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
161	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
162	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
163	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
164	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
165	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
166	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
167	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
168	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
169	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
170	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
171	0.000%	1.000	0.300	0.300
	1.000%	1.000	0.300	0.300
172	0.000%	1.000	0.300	0.300
	1.000%	1.000	0.300	0.300
173	0.000%	1.000	1.000	



	1.000%	1.000	1.000	
174	0.000%	1.000	1.000	
	1.000%	1.000	1.000	
175	0.000%	1.000	1.000	
	1.000%	1.000	1.000	
176	0.000%	1.000	1.000	
	1.000%	1.000	1.000	
177	0.000%	1.000	1.000	
	1.000%	1.000	1.000	
184	0.000%	2.700	2.700	1.000
	1.000%	2.700	2.700	1.000
185	0.000%	2.700	2.700	1.000
	1.000%	2.700	2.700	1.000
186	0.000%	2.700	2.700	1.000
	1.000%	2.700	2.700	1.000
187	0.000%	2.700	2.700	1.000
	1.000%	2.700	2.700	1.000
188	1.000%	2.000	1.000	1.000
189	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
190	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
191	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
193	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
194	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
195	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
196	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
197	0.000%	1.000	0.300	0.300
	1.000%	1.000	0.300	0.300
198	0.000%	1.000	0.300	0.300
	1.000%	1.000	0.300	0.300
199	0.000%	1.000	1.000	
	1.000%	1.000	1.000	
203	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
204	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
215	0.000%	1.250	0.500	0.500
	1.000%	1.250	0.500	0.500
216	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
217	0.000%	1.250	0.500	0.500
	1.000%	1.250	0.500	0.500
218	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
219	0.000%	1.250	0.500	0.500
	1.000%	1.250	0.500	0.500
220	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
221	0.000%	1.250	0.500	0.500
	1.000%	1.250	0.500	0.500
222	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000

**Vypočtové vnitřní síly na prutech**

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
5	0.000	1	0.0	0.0	7.3	0.0	0.0	0.0
1	0.000	6	0.0	0.0	27.3	0.0	0.0	0.0
moment X								
1	0.000	5	0.0	0.0	18.4	0.0	0.0	0.0
1	0.000	1	0.0	0.0	11.6	0.0	0.0	0.0
síla Z								
1	3.950	3	0.0	0.0	-27.3	0.0	0.0	0.0
1	0.000	3	0.0	0.0	27.3	0.0	0.0	0.0
moment Y								
1	3.950	2	0.0	0.0	-18.4	0.0	0.0	0.0
1	1.975	3	0.0	0.0	0.0	26.9	0.0	0.0
síla Y								
1	0.000	1	0.0	0.0	11.6	0.0	0.0	0.0
1	0.000	9	0.0	0.0	27.3	0.0	0.0	0.0
moment Z								
1	3.950	1	0.0	0.0	-11.6	0.0	0.0	0.0
1	3.950	9	0.0	0.0	-27.3	0.0	0.0	0.0

Vyhledáno pro

Prurez : 1

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
3	0.000	9	-2.3	0.0	10.4	434.0	0.0	2.7
2	0.000	9	11.3	0.0	368.3	0.0	2.3	0.0
moment X								
2	0.000	1	2.4	0.0	170.7	0.0	3.7	0.0
2	0.000	1	2.4	0.0	170.7	0.0	3.7	0.0
síla Z								
4	1.200	12	-0.4	0.0	-414.8	0.0	12.7	0.0
2	0.000	6	8.5	0.0	395.6	0.0	-7.2	0.0
moment Y								
4	1.200	5	-1.5	0.0	-281.5	0.0	2.3	0.0
4	0.000	12	-0.4	0.0	-404.2	491.4	12.7	-15.2
síla Y								
2	0.000	6	8.5	0.0	395.6	0.0	-7.2	0.0
4	0.000	12	-0.4	0.0	-404.2	491.4	12.7	-15.2
moment Z								
4	0.000	12	-0.4	0.0	-404.2	491.4	12.7	-15.2
4	0.000	13	-0.9	0.0	-176.4	214.6	-4.6	5.5

Vyhledáno pro

Prurez : 2

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
66	0.000	12	-12.7	0.0	12.6	72.6	1.0	-3.2



107	0.000	7	2.1	0.0	15.7	0.0	0.0	0.0
moment X								
77	0.000	6	-10.5	0.0	57.6	0.0	0.0	0.0
102	0.000	6	-0.9	0.0	64.0	0.0	0.0	0.0
sila Z								
129	5.225	3	0.4	0.0	-64.9	0.0	0.0	0.0
129	0.000	3	0.4	0.0	64.9	0.0	0.0	0.0
moment Y								
107	5.225	12	-8.0	0.0	-58.5	0.0	0.0	0.0
129	2.613	3	0.4	0.0	0.0	84.8	0.0	0.0
sila Y								
110	0.000	15	-3.6	0.0	57.9	0.0	-1.7	0.0
66	0.000	15	-7.6	0.0	12.6	72.5	1.1	-3.4
moment Z								
66	0.000	15	-7.6	0.0	12.6	72.5	1.1	-3.4
181	1.987	9	-5.9	0.0	-56.4	0.0	0.9	0.0

Vyhledano pro

Prurez : 3

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim			2.radek = maximum		
sila X								
79	0.000	6	-249.1	-0.3	-2.3	82.3	0.1	-0.3
109	0.000	12	32.9	0.0	-20.8	139.6	0.0	-0.2
moment X								
79	0.000	3	-212.3	-2.2	-83.0	287.9	-7.7	19.5
108	0.000	13	-55.8	2.0	90.2	0.0	7.8	0.0
sila Z								
109	2.675	15	21.1	-1.9	-154.2	0.0	-7.8	0.0
78	0.000	3	13.5	1.7	163.0	0.0	7.9	0.0
moment Y								
79	2.550	6	-249.1	-0.3	-62.2	0.0	0.1	0.0
78	2.600	3	13.5	1.7	101.9	344.3	7.9	20.6
sila Y								
109	0.000	13	9.0	-1.9	-86.7	258.5	-7.8	21.0
78	0.000	1	6.8	1.8	112.0	0.0	7.9	0.0
moment Z								
79	0.000	9	-134.5	0.0	4.9	63.8	1.2	-3.1
109	0.000	13	9.0	-1.9	-86.7	258.5	-7.8	21.0

Vyhledano pro

Prurez : 4

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim	2.radek = maximum					
sila X								
111	0.000	7	-2.8	0.0	29.9	0.0	-0.3	0.0
84	0.000	9	10.7	0.0	35.2	136.5	5.7	-5.8
moment X								
87	0.000	3	6.5	0.0	-77.2	68.1	0.7	-0.6
111	0.000	10	-2.0	0.0	29.9	0.0	-0.2	0.0
sila Z								
117	1.055	6	2.3	0.0	-100.2	0.0	6.2	0.0



81	0.000	12	10.0	0.0	102.5	0.0	-1.0	0.0
moment Y								
117	1.055	8	0.6	0.0	-82.5	0.0	4.9	0.0
114	0.000	6	2.2	0.0	-30.6	145.4	-5.6	-7.1
sila Y								
114	0.000	9	1.8	0.0	-30.8	144.9	-6.6	-7.8
117	0.000	15	2.6	0.0	-74.5	91.8	7.2	-7.6
moment Z								
115	0.000	15	2.6	0.0	-38.6	137.6	0.0	-9.4
83	0.000	11	4.4	0.0	4.4	11.4	-0.8	0.4

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi		N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.řadek	= minimim		2.řadek	= maximum			
sila X								
94	0.000	10	-1.7	0.0	2.5	0.0	0.0	0.0
moment X								
94	0.000	9	-1.4	0.0	9.8	0.0	0.0	0.0
96	0.000	9	-0.7	0.0	9.8	0.0	0.0	0.0
sila Z								
123	1.055	3	0.0	0.0	-13.1	0.0	0.0	0.0
123	0.000	3	0.0	0.0	13.1	0.0	0.0	0.0
moment Y								
91	0.943	5	0.0	0.0	-9.3	0.0	0.0	0.0
123	0.528	3	0.0	0.0	0.0	3.5	0.0	0.0
sila Y								
94	0.000	15	-1.4	0.0	9.8	0.0	0.0	0.0
96	0.000	9	-0.7	0.0	9.8	0.0	0.0	0.0
moment Z								
94	0.787	15	-1.4	0.0	-9.8	0.0	0.0	0.0
96	0.787	9	-0.7	0.0	-9.8	0.0	0.0	0.0

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi		N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.řadek	= minimim		2.řadek	= maximum			
sila X								
122	0.000	13	-0.6	0.0	-8.1	10.5	0.4	-0.3
120	0.000	13	1.8	0.0	21.1	0.0	0.0	0.0
moment X								
121	0.000	12	0.2	0.0	6.1	28.9	-0.3	-0.1
92	0.000	6	-0.2	0.0	40.5	0.0	-0.4	0.0
sila Z								
97	0.787	6	0.6	0.0	-46.8	0.0	0.0	0.0
120	0.000	12	1.5	0.0	46.6	0.0	0.0	0.0
moment Y								
122	0.943	14	-0.2	0.0	-30.7	0.0	0.5	0.0
95	0.600	6	-0.4	0.0	1.7	30.4	0.2	-0.2
sila Y								
92	0.000	9	-0.2	0.0	40.5	0.0	-0.4	0.0
122	0.000	15	-0.5	0.0	-17.0	27.1	0.7	-0.6



moment Z								
122	0.000	15	-0.5	0.0	-17.0	27.1	0.7	-0.6
120	0.787	4	1.7	0.0	16.0	14.6	0.1	0.0

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
98	0.000	8	0.0	0.0	29.0	0.0	0.0	0.0
148	0.000	13	0.2	0.0	9.4	0.0	0.0	0.0
moment X								
148	0.000	11	0.0	0.0	1.0	0.0	0.0	0.0
148	0.000	3	0.2	0.0	36.6	0.0	0.0	0.0
sila Z								
98	2.930	3	0.0	0.0	-36.6	0.0	0.0	0.0
98	0.000	3	0.0	0.0	36.6	0.0	0.0	0.0
moment Y								
148	2.930	10	0.2	0.0	-9.4	0.0	0.0	0.0
98	1.465	3	0.0	0.0	0.0	26.8	0.0	0.0
sila Y								
98	0.000	9	0.0	0.0	36.6	0.0	0.0	0.0
148	0.000	15	0.2	0.0	36.6	0.0	0.0	0.0
moment Z								
98	2.930	9	0.0	0.0	-36.6	0.0	0.0	0.0
148	2.930	15	0.2	0.0	-36.6	0.0	0.0	0.0

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
126	0.000	7	-0.8	0.0	25.7	0.0	-1.0	0.0
101	0.000	9	1.8	0.0	-12.3	146.1	1.4	-4.2
moment X								
128	0.000	12	-0.2	0.0	-75.5	93.9	6.7	-7.1
99	0.000	6	1.3	0.0	101.0	0.0	-1.5	0.0
sila Z								
128	1.055	15	-0.5	0.0	-102.5	0.0	7.4	0.0
99	0.000	3	1.2	0.0	101.0	0.0	-1.7	0.0
moment Y								
128	1.055	9	-0.6	0.0	-102.5	0.0	6.7	0.0
126	2.930	15	-0.5	0.0	14.1	151.2	-2.5	-7.3
sila Y								
126	0.000	15	-0.5	0.0	89.1	0.0	-2.5	0.0
128	0.000	15	-0.5	0.0	-75.5	93.9	7.4	-7.8
moment Z								
128	0.000	15	-0.5	0.0	-75.5	93.9	7.4	-7.8
100	0.000	11	0.7	0.0	3.7	6.1	-0.4	0.3



Vyhledano pro

Prurez : 9

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
106	0.000	6	-0.7	0.0	39.1	0.0	0.0	0.0
106	0.000	11	0.1	0.0	2.6	0.0	0.0	0.0
moment X								
106	0.000	5	-0.5	0.0	31.3	0.0	0.0	0.0
106	0.000	12	-0.1	0.0	39.1	0.0	0.0	0.0
sila Z								
106	5.100	3	-0.4	0.0	-39.1	0.0	0.0	0.0
106	0.000	3	-0.4	0.0	39.1	0.0	0.0	0.0
moment Y								
106	0.000	1	-0.3	0.0	11.2	0.0	0.0	0.0
106	2.550	3	-0.4	0.0	0.0	49.8	0.0	0.0
sila Y								
106	0.000	13	-0.5	0.0	11.2	0.0	0.0	0.0
106	0.000	12	-0.1	0.0	39.1	0.0	0.0	0.0
moment Z								
106	5.100	13	-0.5	0.0	-11.2	0.0	0.0	0.0
106	5.100	12	-0.1	0.0	-39.1	0.0	0.0	0.0

Vyhledano pro

Prurez : 10

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
104	0.000	9	-0.6	0.0	249.7	0.0	3.1	0.0
116	0.000	10	2.9	0.0	-15.7	29.4	4.5	-2.9
moment X								
116	0.000	5	0.9	0.0	-44.5	82.2	9.6	-6.1
116	0.000	10	2.9	0.0	-15.7	29.4	4.5	-2.9
sila Z								
105	2.550	6	0.3	0.0	-135.2	0.0	3.7	0.0
104	0.000	6	-0.6	0.0	256.6	0.0	-7.8	0.0
moment Y								
149	0.000	8	-0.2	0.0	118.8	0.0	0.0	0.0
104	1.200	6	-0.6	0.0	228.7	291.2	-7.8	-9.4
sila Y								
104	0.000	6	-0.6	0.0	256.6	0.0	-7.8	0.0
116	0.000	15	2.6	0.0	-51.9	98.1	15.0	-9.4
moment Z								
105	0.000	6	0.3	0.0	-93.2	291.2	3.7	-9.4
105	0.000	7	0.2	0.0	-32.4	100.7	-2.1	5.3

Vyhledano pro

Prurez : 11

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech



Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek	= minimim	2.radek	= maximum			
sila X								
131	0.000	6	-0.4	0.0	-209.0	267.3	2.3	-2.8
130	0.000	6	0.2	0.0	125.5	0.0	-1.1	0.0
moment X								
130	0.000	1	0.0	0.0	40.4	0.0	0.1	0.0
130	0.000	1	0.0	0.0	40.4	0.0	0.1	0.0
sila Z								
131	1.200	12	-0.2	0.0	-251.4	0.0	4.1	0.0
130	0.000	12	0.1	0.0	132.4	0.0	-1.9	0.0
moment Y								
131	1.200	5	-0.3	0.0	-191.3	0.0	2.1	0.0
131	0.000	12	-0.2	0.0	-223.9	285.2	4.1	-4.9
sila Y								
131	0.000	7	-0.3	0.0	-79.0	98.1	-2.0	2.4
131	0.000	12	-0.2	0.0	-223.9	285.2	4.1	-4.9
moment Z								
130	2.550	12	0.1	0.0	91.2	285.2	-1.9	-4.9
130	2.550	7	0.1	0.0	31.8	98.1	0.9	2.4

Vyhledano pro

Prurez : 12

Sled kombinaci : 1..15

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek	= minimim	2.radek	= maximum			
sila X								
8	0.000	3	-3.8	0.0	-87.5	156.6	6.3	-4.0
6	0.000	1	4.3	0.0	72.3	0.0	1.0	0.0
moment X								
16	0.000	3	0.2	0.0	-101.2	51.8	-0.2	0.1
11	0.000	8	-0.9	0.0	80.7	-100.4	-1.1	1.8
sila Z								
10	0.560	3	-2.0	0.0	-249.2	-150.7	5.3	1.4
6	0.000	3	4.1	0.0	135.6	0.0	1.9	0.0
moment Y								
10	0.560	3	-2.0	0.0	-249.2	-150.7	5.3	1.4
7	0.750	3	4.1	0.0	75.4	158.3	-7.2	-4.0
sila Y								
7	0.000	6	-0.4	0.0	39.0	73.0	-8.4	1.6
10	0.000	9	1.9	0.0	-201.2	-11.9	7.6	-2.2
moment Z								
7	0.750	6	-0.4	0.0	37.8	101.8	-8.4	-4.7
11	0.000	9	-1.5	0.0	100.3	-124.9	-1.3	2.1

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..15

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek	= minimim	2.radek	= maximum			
sila X								
53	0.000	14	-0.9	0.0	-15.2	13.1	0.0	0.0
76	0.000	15	7.8	0.0	-20.4	17.6	0.0	0.0



moment X								
50	0.000	6	-0.4	0.0	19.6	0.0	0.3	0.0
69	0.000	12	1.5	0.0	39.6	0.0	0.2	0.0
sila Z								
72	0.850	15	2.1	0.0	-52.1	0.0	0.0	0.0
69	0.000	15	1.4	0.0	39.6	0.0	0.2	0.0
moment Y								
72	0.850	9	2.4	0.0	-52.1	0.0	0.0	0.0
70	0.850	15	1.4	0.0	26.5	56.2	-0.3	0.0
sila Y								
70	0.000	10	0.7	0.0	9.4	10.8	-0.4	0.2
50	0.000	9	-0.4	0.0	19.6	0.0	0.3	0.0
moment Z								
71	0.000	13	1.0	0.0	-5.5	18.5	0.2	-0.1
51	0.000	9	-0.4	0.0	6.7	16.4	-0.2	0.3

Vyhledano pro

Prurez : 14

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim	2.radek = maximum				
sila X								
201	0.000	15	-2.8	0.0	-0.5	0.3	1.0	-0.6
64	0.000	10	0.9	0.0	9.4	0.0	1.4	0.0
moment X								
63	0.000	9	-0.7	0.0	-8.5	7.5	-0.1	0.0
65	0.000	9	-1.5	0.0	-8.2	7.2	0.2	-0.2
sila Z								
63	0.850	3	-0.7	0.0	-9.1	0.0	0.0	0.0
61	0.000	3	0.5	0.0	16.4	0.0	-0.6	0.0
moment Y								
182	0.000	13	-0.5	0.0	3.0	-0.6	-3.5	1.0
62	0.430	3	-0.7	0.0	1.2	7.5	0.5	0.0
sila Y								
200	0.000	10	-1.0	0.0	3.0	0.0	-4.8	0.0
202	0.000	10	-0.7	0.0	-2.8	0.0	4.4	0.0
moment Z								
201	0.000	10	-1.0	0.0	-0.7	0.4	1.2	-0.7
182	0.000	10	-0.7	0.0	3.1	-0.6	-3.5	1.0

Vyhledano pro

Prurez : 15

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim	2.radek = maximum				
sila X								
29	0.000	12	-15.9	2.1	360.4	209.8	-6.7	0.7
26	0.000	6	11.5	0.0	-256.4	212.6	-1.8	0.8
moment X								
17	0.000	6	-8.2	-1.9	392.2	0.0	-10.1	0.0
29	0.000	12	-15.9	2.1	360.4	209.8	-6.7	0.7
sila Z								
27	0.510	6	11.5	0.0	-322.0	0.0	-0.9	0.0
28	0.000	12	-15.9	2.1	420.3	0.0	1.3	0.0



moment Y								
27	0.510	7	-6.5	0.0	-113.4	0.0	-0.7	0.0
31	0.720	12	2.4	0.0	79.4	642.6	1.3	2.1
sila Y								
17	0.000	9	2.3	-1.6	347.3	0.0	-13.6	0.0
30	0.000	12	0.8	0.0	141.4	483.6	9.9	-5.9
moment Z								
18	0.750	9	2.3	-1.6	286.1	388.7	-6.5	-11.7
29	0.750	7	4.8	0.8	164.3	215.4	2.7	2.3

Vyhledano pro

Prurez : 16

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
42	0.000	15	-8.0	0.0	110.5	451.3	-5.4	3.5
49	0.000	9	8.3	0.0	-254.9	130.4	-0.5	0.3
moment X								
48	0.000	12	8.1	0.0	-190.8	295.2	0.0	0.2
44	0.000	10	0.5	0.0	-12.2	171.2	-0.2	0.8
sila Z								
49	0.510	15	7.6	0.0	-271.0	0.0	-0.2	0.0
39	0.000	15	-0.2	0.0	422.2	0.0	-3.6	0.0
moment Y								
49	0.510	2	5.9	0.0	-208.2	0.0	-0.2	0.0
43	0.720	15	-7.0	0.0	49.0	566.2	2.2	1.2
sila Y								
42	0.000	12	-6.1	0.0	122.4	379.9	-10.2	6.3
41	0.000	12	-6.2	0.0	206.8	317.9	22.7	-0.5
moment Z								
39	0.500	12	-6.2	0.0	362.3	181.4	-4.4	-2.2
41	0.300	12	-6.2	0.0	206.0	379.8	22.7	6.3

Vyhledano pro

Prurez : 17

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim			2.radek = maximum		
sila X								
118	0.000	10	-3.2	0.0	0.2	0.0	0.0	0.0
93	0.000	14	-0.6	0.0	3.9	0.0	0.0	0.0
moment X								
93	0.000	1	-2.6	0.0	1.3	0.0	0.0	0.0
118	0.000	13	-3.2	0.0	0.2	0.0	0.0	0.0
sila Z								
93	1.200	3	-1.8	0.0	-5.0	0.0	0.0	0.0
93	0.000	3	-1.8	0.0	5.0	0.0	0.0	0.0
moment Y								
93	1.200	4	-2.5	0.0	-1.3	0.0	0.0	0.0
93	0.600	3	-1.8	0.0	0.0	1.5	0.0	0.0
sila Y								
93	0.000	9	-1.9	0.0	5.0	0.0	0.0	0.0
118	0.000	15	-2.7	0.0	3.9	0.0	0.0	0.0



moment Z

93	1.200	9	-1.9	0.0	-5.0	0.0	0.0	0.0
118	1.200	15	-2.7	0.0	-3.9	0.0	0.0	0.0

Vyhledano pro

Prurez : 18

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	=	minimum	2.radek	=	maximum		
síla X								
135	0.000	1	0.0	0.0	29.7	0.0	0.0	0.0
136	0.000	9	21.6	0.0	95.9	0.0	0.0	0.0
moment X								
136	0.000	15	14.3	0.0	95.9	0.0	0.0	0.0
135	0.000	1	0.0	0.0	29.7	0.0	0.0	0.0
síla Z								
136	10.000	3	13.8	0.0	-95.9	0.0	0.0	0.0
136	0.000	3	13.8	0.0	95.9	0.0	0.0	0.0
moment Y								
135	0.000	1	0.0	0.0	29.7	0.0	0.0	0.0
136	5.000	3	13.8	0.0	0.0	239.7	0.0	0.
síla Y								
136	0.000	9	21.6	0.0	95.9	0.0	0.0	0.0
136	0.000	13	6.6	0.0	30.4	0.0	0.0	0.0
moment Z								
136	10.000	9	21.6	0.0	-95.9	0.0	0.0	0.0
136	10.000	13	6.6	0.0	-30.4	0.0	0.0	0.0

Vyhledano pro

Prurez : 19

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	=	minimum	2.radek	=	maximum		
síla X								
147	0.000	12	0.0	0.0	0.5	0.0	0.0	0.0
143	0.000	6	265.1	0.0	28.2	0.0	-0.2	0.1
moment X								
147	0.000	7	0.0	0.0	0.5	0.0	0.0	0.0
142	0.000	13	0.0	0.0	0.0	0.0	0.0	0.0
síla Z								
145	2.550	8	207.4	0.0	-49.7	-18.6	-6.4	-6.1
144	0.000	7	167.2	0.0	47.5	-20.3	6.5	-6.2
moment Y								
145	2.550	7	161.9	0.0	-49.5	-25.4	-6.4	-6.1
144	2.550	9	245.5	0.0	40.0	107.9	6.5	10.3
síla Y								
145	0.000	9	230.0	0.0	-46.5	107.9	-6.4	10.3
144	0.000	9	245.5	0.0	42.9	2.3	6.5	-6.3
moment Z								
144	0.000	9	245.5	0.0	42.9	2.3	6.5	-6.3
145	0.000	7	161.9	0.0	-46.6	97.1	-6.4	10.3

Vyhledano pro

Prurez : 20



Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
138	0.000	15	-14.8	0.1	0.5	0.0	-46.9	0.0
137	0.250	3	184.9	1.1	-15.6	-3.9	225.8	56.5
moment X								
141	0.000	13	157.6	-1.0	-15.7	0.0	-64.8	-36.4
137	0.000	3	184.6	1.1	-15.6	0.0	225.8	0.0
sila Z								
141	0.000	13	157.6	-1.0	-15.7	0.0	-64.8	-36.4
140	0.000	11	151.4	0.0	17.1	0.0	46.1	0.0
moment Y								
141	0.250	13	158.0	-1.0	-15.7	-3.9	-64.8	-52.5
140	0.250	11	151.8	0.0	17.1	4.3	46.1	11.5
sila Y								
141	0.000	12	26.0	0.0	0.2	0.0	-234.1	9.3
137	0.000	6	28.7	0.1	0.2	0.0	265.1	0.0
moment Z								
141	0.250	15	161.1	-1.0	-15.7	-3.9	-141.2	-74.5
137	0.250	6	29.0	0.1	0.2	0.0	265.1	66.3

Vyhledano pro

Prurez : 21

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
133	0.000	9	-224.6	0.5	46.6	-23.3	2.3	-3.4
133	0.000	13	-30.9	0.0	0.1	4.9	0.0	-0.4
moment X								
134	0.000	9	-209.2	-0.6	-48.1	95.4	-2.1	2.5
133	0.000	7	-153.3	0.6	45.8	-31.7	2.3	-3.3
sila Z								
134	2.550	9	-209.2	-0.6	-51.2	-31.2	-2.1	-2.9
133	0.000	9	-224.6	0.5	46.6	-23.3	2.3	-3.4
moment Y								
134	2.550	7	-148.1	-0.6	-47.3	-34.4	-2.1	-2.8
134	0.000	9	-209.2	-0.6	-48.1	95.4	-2.1	2.5
sila Y								
134	0.000	7	-148.1	-0.6	-44.3	82.4	-2.1	2.7
133	0.000	8	-201.4	0.5	46.1	-25.8	2.3	-3.4
moment Z								
133	0.000	9	-224.6	0.5	46.6	-23.3	2.3	-3.4
133	2.550	7	-153.3	0.6	42.7	81.1	2.3	2.7

Vyhledano pro

Prurez : 22

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				



sila X								
184	0.000	10	-13.2	-0.2	-1.2	0.0	-1.3	0.0
151	1.000	3	0.8	0.0	-0.1	-0.1	-0.5	-0.5
moment X								
187	0.000	15	0.0	-0.2	-0.2	0.0	0.3	0.0
150	0.000	10	-1.1	0.1	-0.6	0.0	0.0	0.0
sila Z								
184	0.000	15	-12.0	0.0	-1.3	0.0	-1.2	0.0
185	0.000	4	-10.0	-0.2	2.1	0.0	-0.2	0.0
moment Y								
184	1.000	15	-11.9	0.0	-1.3	-1.3	-1.2	-1.2
185	1.000	4	-9.9	-0.2	2.1	2.1	-0.2	-0.2
sila Y								
184	0.000	13	-13.0	-0.2	-1.2	0.0	-1.3	0.0
152	0.000	7	-12.8	0.0	-0.5	0.0	1.1	0.0
moment Z								
184	1.000	13	-12.9	-0.2	-1.2	-1.2	-1.3	-1.3
152	1.000	7	-12.7	0.0	-0.5	-0.5	1.1	1.1

Vyhledano pro

Prurez : 23

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
190	0.000	10	-1.2	0.0	0.0	0.0	-0.1	0.0
168	0.000	12	0.6	0.1	-1.1	0.4	0.0	0.0
moment X								
196	0.000	9	0.5	-0.2	0.6	-0.5	-0.3	0.2
167	0.000	9	0.0	0.3	2.5	-2.0	0.0	0.0
sila Z								
166	1.200	12	0.2	0.0	-2.3	-1.2	0.0	0.0
167	0.000	7	0.0	0.2	2.7	-2.1	0.0	0.0
moment Y								
167	0.000	7	0.0	0.2	2.7	-2.1	0.0	0.0
168	0.000	15	0.6	0.1	-1.1	0.4	0.0	0.0
sila Y								
196	0.000	15	0.4	-0.2	0.6	-0.5	-0.3	0.2
169	0.000	7	0.0	-0.1	2.3	-1.8	0.2	-0.2
moment Z								
169	0.000	7	0.0	-0.1	2.3	-1.8	0.2	-0.2
196	0.000	13	0.3	-0.2	0.5	-0.4	-0.3	0.2

Vyhledano pro

Prurez : 24

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
205	0.000	10	-6.0	0.0	3.6	0.0	0.0	0.0
210	0.000	14	-0.5	0.0	-1.1	0.0	0.0	0.0
moment X								
205	0.000	4	-5.9	0.0	3.6	0.0	0.0	0.0
164	0.000	9	-1.2	0.0	0.4	0.0	0.0	0.0



sila Z								
210	0.800	7	-1.8	0.0	-4.1	-3.0	0.0	0.0
205	0.000	10	-6.0	0.0	3.6	0.0	0.0	0.0
moment Y								
210	0.800	7	-1.8	0.0	-4.1	-3.0	0.0	0.0
207	0.000	10	-2.0	0.0	-0.3	2.8	0.0	0.0
sila Y								
162	0.000	7	-3.5	0.0	0.2	0.4	0.0	0.0
163	0.000	7	-3.7	0.0	1.0	0.2	0.0	0.0
moment Z								
162	0.640	7	-3.5	0.0	-1.3	0.0	0.0	0.0
208	0.800	10	-2.0	0.0	-3.6	0.0	0.0	0.0

Vyhledano pro

Prurez : 25

Sled kombinaci : 1..15

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
159	0.000	10	0.0	0.0	2.0	-1.0	0.7	-0.5
189	0.000	10	6.4	0.2	3.6	-4.8	-0.5	0.2
moment X								
188	0.000	13	0.0	-1.2	-7.0	0.0	0.0	0.0
192	0.000	15	0.0	0.8	9.5	-4.1	5.6	-0.4
sila Z								
188	0.800	7	0.0	-1.2	-8.5	-6.2	0.0	0.0
192	0.000	13	0.0	0.8	10.5	-4.1	6.7	-0.5
moment Y								
188	0.800	7	0.0	-1.2	-8.5	-6.2	0.0	0.0
193	0.800	3	0.0	0.8	2.1	0.0	-0.9	0.0
sila Y								
158	0.000	7	0.0	0.0	7.5	-2.4	-4.7	0.4
192	0.000	10	0.0	0.8	10.4	-4.0	6.8	-0.5
moment Z								
159	0.000	7	0.0	0.0	2.0	-1.0	0.7	-0.5
192	0.200	10	0.0	0.8	10.4	-1.9	6.8	0.9

Vyhledano pro

Prurez : 26

Sled kombinaci : 1..15

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
198	0.000	10	-6.9	0.0	-1.0	0.0	0.0	0.0
197	1.562	10	10.6	0.0	-0.5	0.0	0.0	0.0
moment X								
198	0.000	10	-6.9	0.0	-1.0	0.0	0.0	0.0
172	0.000	11	-2.6	0.0	0.2	0.0	0.0	0.0
sila Z								
209	0.790	10	-4.8	0.0	-4.1	-3.0	0.0	0.0
170	0.000	10	-3.0	0.0	1.9	-1.3	0.0	0.0
moment Y								
209	0.790	10	-4.8	0.0	-4.1	-3.0	0.0	0.0
197	0.781	2	3.3	0.0	0.0	0.2	0.0	0.0



sila Y								
198	0.000	3	-5.6	0.0	-0.9	0.0	0.0	0.0
209	0.000	3	-4.0	0.0	-3.4	0.0	0.0	0.0
moment Z								
198	1.570	3	-4.8	0.0	-1.8	-2.1	0.0	0.0
170	0.000	15	-2.1	0.0	1.7	-1.1	0.0	0.0

Vyhledano pro

Prurez : 27

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim	2.radek = maximum				
sila X								
213	0.000	13	-3.3	0.0	0.0	0.0	0.0	0.0
211	0.000	10	7.7	0.0	0.0	0.0	0.0	0.0
moment X								
214	0.000	7	2.6	0.0	0.0	0.0	0.0	0.0
211	0.000	4	7.5	0.0	0.0	0.0	0.0	0.0
sila Z								
199	1.442	3	1.7	0.0	0.0	0.0	0.0	0.0
moment Y								
199	1.442	3	1.7	0.0	0.0	0.0	0.0	0.0
211	1.281	10	7.7	0.0	0.0	0.0	0.0	0.0
sila Y								
176	0.000	9	1.1	0.0	0.0	0.0	0.0	0.0
212	0.000	15	2.9	0.0	0.0	0.0	0.0	0.0
moment Z								
173	1.442	9	1.3	0.0	0.0	0.0	0.0	0.0
199	1.442	15	1.6	0.0	0.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 28

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim	2.radek = maximum				
sila X								
221	4.328	15	-17.0	0.0	-3.1	10.1	0.0	0.0
215	0.000	8	7.4	0.0	6.4	0.0	0.0	0.0
moment X								
221	0.000	12	-11.1	0.0	7.6	0.0	0.0	0.0
215	0.000	6	7.0	0.0	6.4	0.0	0.0	0.0
sila Z								
222	1.000	15	-14.9	0.0	-11.4	0.0	0.0	0.0
221	0.000	15	-13.0	0.0	7.7	0.0	0.0	0.0
moment Y								
222	1.000	2	-9.3	0.0	-9.8	0.0	0.0	0.0
221	2.164	15	-15.0	0.0	2.3	10.9	0.0	0.0
sila Y								
222	0.000	14	-11.5	0.0	-7.8	9.1	0.0	0.0
216	0.000	9	4.5	0.0	-3.0	4.3	0.0	0.0
moment Z								
216	0.000	9	4.5	0.0	-3.0	4.3	0.0	0.0
220	1.000	9	-7.5	0.0	-9.2	0.0	0.0	0.0



Vyhledáno pro

Prurez : 29

Sled kombinací : 1..15

Vypočtové reakce v podporách

Uzel	ZS	Px kN	Py kN	Pz kN	Mx kN.m	My kN.m	Mz kN.m
1	1	0.0	0.1	7.4	0.0	0.0	0.0
	2	0.0	0.0	3.8	0.0	0.0	0.0
	3	0.2	0.3	29.5	0.0	0.0	0.0
	4	0.2	0.9	81.9	0.0	0.0	0.0
	5	-4.5	0.5	43.1	0.0	0.0	0.0
	6	0.0	0.7	5.5	0.0	0.0	0.0
	7	0.7	-0.4	-3.8	0.0	0.0	0.0
	8	0.0	-0.1	-1.6	0.0	0.0	0.0
	9	0.0	0.0	-0.5	0.0	0.0	0.0
2	1	0.0	0.0	0.6	0.0	0.0	0.0
	2	0.0	0.0	1.2	0.0	0.0	0.0
	3	0.0	0.0	9.8	0.0	0.0	0.0
	4	0.0	0.0	16.7	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0
	6	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0
	8	0.0	0.0	0.0	0.0	0.0	0.0
	9	0.0	0.0	0.0	0.0	0.0	0.0
3	1	0.0	-0.8	35.3	0.0	0.0	0.0
	2	0.0	-0.2	10.1	0.0	0.0	0.0
	3	0.2	-1.3	60.8	0.0	0.0	0.0
	4	0.3	-4.2	187.7	0.0	0.0	0.0
	5	-3.8	0.0	64.6	0.0	0.0	0.0
	6	6.8	-2.1	107.8	0.0	0.0	0.0
	7	-2.7	-4.9	80.5	0.0	0.0	0.0
	8	-1.6	-1.5	33.3	0.0	0.0	0.0
	9	1.3	0.3	11.6	0.0	0.0	0.0
6	1	0.2	-0.1	36.7	0.0	0.0	0.0
	2	-0.1	-0.1	10.9	0.0	0.0	0.0
	3	0.6	-0.3	64.4	0.0	0.0	0.0
	4	2.1	-0.4	201.5	0.0	0.0	0.0
	5	0.5	0.0	12.5	0.0	0.0	0.0
	6	0.0	-0.8	32.5	0.0	0.0	0.0
	7	-5.1	-0.3	80.7	0.0	0.0	0.0
	8	9.9	0.6	107.8	0.0	0.0	0.0
	9	-5.3	-0.3	69.1	0.0	0.0	0.0
7	1	0.0	0.0	0.6	0.0	0.0	0.0
	2	0.0	0.0	1.3	0.0	0.0	0.0
	3	0.0	0.0	5.4	0.0	0.0	0.0
	4	0.0	0.0	17.9	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0
	6	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0
	8	0.0	0.0	0.0	0.0	0.0	0.0
	9	0.0	0.0	0.0	0.0	0.0	0.0
8	1	0.4	-0.3	27.2	0.0	0.0	0.0
	2	-0.1	-0.3	12.4	0.0	0.0	0.0
	3	1.6	-0.9	73.7	0.0	0.0	0.0
	4	4.1	-1.4	247.6	0.0	0.0	0.0
	5	0.0	0.1	-0.8	0.0	0.0	0.0
	6	0.0	0.0	-2.6	0.0	0.0	0.0
	7	1.2	0.7	-6.1	0.0	0.0	0.0



9	8		0.3	-1.5	9.9	0.0	0.0	0.0
	9		-5.6	-0.7	68.7	0.0	0.0	0.0
	1		0.0	0.0	7.1	0.0	0.0	0.0
	2		0.0	0.0	4.7	0.0	0.0	0.0
	3		0.0	0.0	25.2	0.0	0.0	0.0
	4		0.0	0.0	83.9	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
14	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	-0.8	18.8	0.0	0.0	0.0
	2		-0.6	-0.5	12.5	0.0	0.0	0.0
	3		1.3	-1.5	64.6	0.0	0.0	0.0
	4		1.6	-3.3	217.4	0.0	0.0	0.0
	5		-2.7	-0.3	48.8	0.0	0.0	0.0
20	6		0.5	-0.8	6.3	0.0	0.0	0.0
	7		1.1	-3.1	-4.4	0.0	0.0	0.0
	8		0.0	-2.7	-1.9	0.0	0.0	0.0
	9		0.0	0.5	-0.6	0.0	0.0	0.0
	1		0.0	0.0	7.4	0.0	0.0	0.0
	2		0.0	0.0	4.1	0.0	0.0	0.0
	3		0.0	0.0	27.6	0.0	0.0	0.0
	4		0.0	0.0	106.9	0.0	0.0	0.0
32	5		0.0	0.0	-5.3	0.0	0.0	0.0
	6		0.0	0.0	-0.7	0.0	0.0	0.0
	7		0.0	0.0	0.5	0.0	0.0	0.0
	8		0.0	0.0	0.2	0.0	0.0	0.0
	9		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.1	0.0	19.2	0.0	0.0	0.0
	2		-0.1	0.0	10.1	0.0	0.0	0.0
	3		0.5	0.2	59.3	0.0	0.0	0.0
34	4		1.4	0.2	213.1	0.0	0.0	0.0
	5		-3.1	0.0	9.8	0.0	0.0	0.0
	6		6.1	0.2	17.6	0.0	0.0	0.0
	7		-4.9	0.2	10.8	0.0	0.0	0.0
	8		3.4	0.0	2.2	0.0	0.0	0.0
	9		-1.5	0.0	-0.2	0.0	0.0	0.0
	1		0.0	0.0	8.9	0.0	0.0	0.0
	2		0.0	0.0	4.7	0.0	0.0	0.0
35	3		0.2	0.0	27.9	0.0	0.0	0.0
	4		0.6	0.0	88.2	0.0	0.0	0.0
	5		-1.5	0.0	4.8	0.0	0.0	0.0
	6		2.9	0.0	8.3	0.0	0.0	0.0
	7		-2.3	0.0	5.1	0.0	0.0	0.0
	8		1.6	0.0	1.0	0.0	0.0	0.0
	9		-0.7	0.0	-0.1	0.0	0.0	0.0
	1		0.0	0.0	8.4	0.0	0.0	0.0
37	2		0.0	0.0	4.7	0.0	0.0	0.0
	3		0.1	0.0	27.2	0.0	0.0	0.0
	4		0.4	0.0	86.9	0.0	0.0	0.0
	5		-0.3	0.0	0.0	0.0	0.0	0.0
	6		0.6	0.0	0.9	0.0	0.0	0.0
	7		-1.0	0.0	4.8	0.0	0.0	0.0
	8		1.4	0.0	7.9	0.0	0.0	0.0
	9		-0.7	0.0	4.9	0.0	0.0	0.0
	1		0.0	0.0	18.0	0.0	0.0	0.0
	2		0.0	0.0	9.8	0.0	0.0	0.0
	3		0.2	0.0	56.2	0.0	0.0	0.0
	4		0.8	0.0	205.1	0.0	0.0	0.0



AFRI CZ s.r.o.

Modernizace teplárny Mladá Boleslav

Dokumentace pro vydání stavebního povolení

Datum: 12/2023

SO 203 – Úpravy kotelny K 80/K90 - OK

Revize 0

38	5		-0.5	0.0	0.0	0.0	0.0	0.0
	6		1.3	-0.1	1.9	0.0	0.0	0.0
	7		-2.2	0.0	10.3	0.0	0.0	0.0
	8		3.1	0.0	16.8	0.0	0.0	0.0
	9		-1.6	0.0	10.5	0.0	0.0	0.0
	1		0.0	0.0	2.6	0.0	0.0	0.0
	2		0.0	0.0	1.3	0.0	0.0	0.0
	3		0.0	0.0	5.8	0.0	0.0	0.0
	4		0.0	0.0	39.7	0.0	0.0	0.0
81	5		0.0	0.0	0.0	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.5	0.0	17.8	0.0	0.0	0.0
	2		-0.2	0.0	9.1	0.0	0.0	0.0
	3		2.1	0.0	54.8	0.0	0.0	0.0
	4		5.5	0.2	181.5	0.0	0.0	0.0
109	5		0.0	0.0	-0.2	0.0	0.0	0.0
	6		0.0	0.0	-0.5	0.0	0.0	0.0
	7		0.6	0.2	-1.2	0.0	0.0	0.0
	8		0.4	0.2	2.0	0.0	0.0	0.0
	9		-0.1	0.0	13.4	0.0	0.0	0.0
	1		0.0	0.0	6.5	0.0	0.0	0.0
	2		0.0	0.0	3.4	0.0	0.0	0.0
	3		0.0	0.0	19.8	0.0	0.0	0.0
	4		0.0	0.0	66.0	0.0	0.0	0.0
110	5		0.0	0.0	0.0	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	1.8	6.6	0.0	0.0	0.0
	2		0.0	1.0	3.5	0.0	0.0	0.0
	3		0.0	3.5	20.3	0.0	0.0	0.0
	4		0.0	8.0	67.5	0.0	0.0	0.0
145	5		0.0	-0.2	0.0	0.0	0.0	0.0
	6		0.0	2.9	0.0	0.0	0.0	0.0
	7		0.0	7.6	0.0	0.0	0.0	0.0
	8		0.0	5.0	0.0	0.0	0.0	0.0
	9		0.0	0.3	0.0	0.0	0.0	0.0
	1		0.5	0.0	0.5	0.0	0.0	0.0
	2		1.2	0.0	1.2	0.0	0.0	0.0
	3		-0.2	0.0	0.0	0.0	0.0	0.0
	4		2.8	0.0	3.9	0.0	0.0	0.0
147	5		-0.2	0.0	0.0	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.2	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.0	0.0	0.0	0.0	0.0	0.0
	1		-0.7	0.0	0.9	0.0	0.0	0.0
	2		-0.3	0.0	1.7	0.0	0.0	0.0
	3		-2.0	0.0	0.6	0.0	0.0	0.0
	4		-6.6	0.0	6.7	0.0	0.0	0.0
149	5		-1.1	0.0	0.3	0.0	0.0	0.0
	6		-1.0	0.0	0.3	0.0	0.0	0.0
	7		-1.6	0.0	0.5	0.0	0.0	0.0
	8		-0.2	0.0	0.0	0.0	0.0	0.0
	9		-0.3	0.0	0.0	0.0	0.0	0.0
	1		-0.4	0.0	0.8	0.0	0.0	0.0



	2		-0.2	0.0	1.6	0.0	0.0	0.0
	3		-1.0	0.0	0.3	0.0	0.0	0.0
	4		-4.1	0.0	6.0	0.0	0.0	0.0
	5		-0.3	0.0	0.1	0.0	0.0	0.0
	6		-0.2	0.0	0.0	0.0	0.0	0.0
	7		-1.8	0.0	0.5	0.0	0.0	0.0
	8		-0.8	0.0	0.2	0.0	0.0	0.0
	9		-0.8	0.0	0.2	0.0	0.0	0.0
151	1		-0.8	0.0	0.9	0.0	0.0	0.0
	2		0.6	0.0	1.4	0.0	0.0	0.0
	3		-3.8	0.0	1.1	0.0	0.0	0.0
	4		-9.2	0.0	7.5	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	6		0.1	0.0	0.0	0.0	0.0	0.0
	7		0.5	0.0	-0.1	0.0	0.0	0.0
	8		-0.2	0.0	0.0	0.0	0.0	0.0
	9		-2.1	0.0	0.6	0.0	0.0	0.0

Normové deformace v uzlech

Uzel Kombi	X	Y	Z	Rx	Ry	Rz
	mm	mm	mm	rad	rad	rad
extremy	1. radek = minimum		2. radek = maximum			
posuv X						
89 12	-4.8	0.0	-21.6	0.0026	0.0019	0.0000
102 1	5.6	-0.1	-7.1	0.0002	0.0014	0.0022
posuv Y						
136 10	0.7	-5.8	-17.3	0.0067	-0.0030	0.0033
143 15	3.1	6.4	-36.2	0.0067	-0.0046	0.0036
posuv Z						
142 12	2.5	0.8	-41.7	0.0045	0.0001	0.0036
16 1	0.0	0.0	0.2	-0.0002	0.0000	0.0000
rot X						
3 6	0.0	0.0	0.0	-0.0080	0.0000	0.0005
110 15	0.0	0.0	0.0	0.0120	0.0057	0.0000
rot Y						
60 7	0.5	0.0	-10.1	0.0000	-0.0182	0.0000
60 15	0.0	0.0	-14.9	-0.0005	0.0069	0.0000
rot Z						
92 15	-3.3	0.0	-17.6	0.0041	0.0020	-0.0025
141 15	3.1	-4.8	-34.1	-0.0034	0.0061	0.0038

Vyhledáno pro

Sled uzlu : 1..151

Sled kombinaci : 1..15

POSOUZENÍ PRŮŘEZŮ

Vypočtové napětí na prutech rezy generované

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut :	1	prurez :	1 rez :
1 1.00 3	-137.9	0.0	1.98 [m]
sigma max prut :	1	prurez :	1 rez :
1 8.00 3	137.9	0.0	1.98 [m]
tau prut :	1	prurez :	1 rez :
1 12.50 15	0.0	-27.6	3.95 [m]
sigma sr. prut :	1	prurez :	1 rez :
1 1.00 3	-137.9	0.0	1.98 [m]



vyuziti prurezu : 65.7 % **IPE 200** VYHOVI !

Vyhledano pro

Prurez : 1

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 3	prurez	: 2	rez	: 5.10 [m]
1 2.00 12	-190.6			0.0	190.6
sigma max prut	: 4	prurez	: 2	rez	: 0.00 [m]
3 12.00 12	186.9			0.0	186.9
tau prut	: 4	prurez	: 2	rez	: 1.20 [m]
2 7.50 12	-0.0			-60.0	60.0
sigma sr. prut	: 3	prurez	: 2	rez	: 5.10 [m]
1 2.00 12	-190.6			0.0	190.6

vyuziti prurezu : 90.8 % **USV 400/250/20/30** VYHOVI !

Vyhledano pro

Prurez : 2

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 66	prurez	: 3	rez	: 0.00 [m]
1 1.00 12	-191.6			0.0	191.6
sigma max prut	: 110	prurez	: 3	rez	: 1.99 [m]
1 9.00 15	171.6			0.0	171.6
tau prut	: 102	prurez	: 3	rez	: 5.15 [m]
1 4.50 6	-0.6			-34.8	34.8
sigma sr. prut	: 66	prurez	: 3	rez	: 0.00 [m]
1 1.00 12	-191.6			0.0	191.6

vyuziti prurezu : 91.2 % **IPE 300** VYHOVI !

Vyhledano pro

Prurez : 3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 78	prurez	: 4	rez	: 2.60 [m]
1 16.00 3	-148.9			0.0	148.9
sigma max prut	: 78	prurez	: 4	rez	: 2.60 [m]
1 8.00 3	148.3			0.0	148.3
tau prut	: 78	prurez	: 4	rez	: 0.00 [m]
1 12.50 3	0.7			41.6	41.6
sigma sr. prut	: 78	prurez	: 4	rez	: 2.60 [m]
1 16.00 3	-148.9			0.0	148.9

vyuziti prurezu : 70.9 % **HEB 400** VYHOVI !

Vyhledano pro

Prurez : 4



Sled kombinací : 1..15

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	115	prurez :	5	rez :	0.00 [m]
1 1.00 15		-183.3				183.3
sigma max prut	:	114	prurez :	5	rez :	0.22 [m]
1 9.00 15		183.1				183.1
tau prut	:	81	prurez :	5	rez :	0.00 [m]
1 4.50 3		1.0				34.1
sigma sr. prut	:	115	prurez :	5	rez :	0.00 [m]
1 1.00 15		-183.3				183.3

vyuziti prurezu : 87.3 % **IPE 360** VYHOVI !

Vyhledano pro

Prurez : 5

Sled kombinací : 1..15

Vypočtové napětí na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	123	prurez :	6	rez :	0.53 [m]
1 1.00 6		-100.6				100.6
sigma max prut	:	124	prurez :	6	rez :	0.53 [m]
1 8.00 9		100.6				100.6
tau prut	:	123	prurez :	6	rez :	0.00 [m]
1 4.50 15		-0.0				37.0
sigma sr. prut	:	123	prurez :	6	rez :	0.53 [m]
1 1.00 6		-100.6				100.6

vyuziti prurezu : 47.9 % **IPE 100** VYHOVI !

Vyhledano pro

Prurez : 6

Sled kombinací : 1..15

Vypočtové napětí na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	121	prurez :	7	rez :	0.60 [m]
1 1.00 15		-165.9				165.9
sigma max prut	:	121	prurez :	7	rez :	0.60 [m]
1 9.00 15		166.0				166.0
tau prut	:	97	prurez :	7	rez :	0.79 [m]
1 4.50 6		0.2				47.9
sigma sr. prut	:	121	prurez :	7	rez :	0.60 [m]
1 9.00 15		166.0				166.0

vyuziti prurezu : 79.1 % **IPE 180** VYHOVI !

Vyhledano pro

Prurez : 7

Sled kombinací : 1..15

Vypočtové napětí na prutech rezy generovane



Prv. Vlak. Kom.	sigma x MPa	tau Mpa	sig.srov. Mpa
-----	-----	-----	-----
sigma min prut : 98 prurez : 8 rez : 1.47 [m]			
1 1.00 9 -182.6 0.0 182.6			
sigma max prut : 148 prurez : 8 rez : 1.46 [m]			
1 8.00 15 182.6 0.0 182.6			
tau prut : 148 prurez : 8 rez : 2.93 [m]			
1 4.50 3 0.1 -43.8 43.8			
sigma sr. prut : 148 prurez : 8 rez : 1.46 [m]			
1 8.00 15 182.6 0.0 182.6			

vyuziti prurezu : 87.0 % **IPE 180** VYHOVI !

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x MPa	tau Mpa	sig.srov. Mpa
-----	-----	-----	-----
sigma min prut : 126 prurez : 9 rez : 2.93 [m]			
1 1.00 15 -188.3 0.0 188.3			
sigma max prut : 127 prurez : 9 rez : 0.00 [m]			
1 9.00 15 180.0 0.0 180.0			
tau prut : 99 prurez : 9 rez : 0.00 [m]			
1 12.50 6 0.2 34.3 34.3			
sigma sr. prut : 126 prurez : 9 rez : 2.93 [m]			
1 1.00 15 -188.3 0.0 188.3			

vyuziti prurezu : 89.7 % **IPE 360** VYHOVI !

Vyhledano pro

Prurez : 9

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x MPa	tau Mpa	sig.srov. Mpa
-----	-----	-----	-----
sigma min prut : 106 prurez : 10 rez : 2.55 [m]			
1 1.00 6 -159.6 0.0 159.6			
sigma max prut : 106 prurez : 10 rez : 2.55 [m]			
1 2.00 12 159.4 0.0 159.4			
tau prut : 106 prurez : 10 rez : 5.10 [m]			
1 1.50 12 -0.0 -27.9 27.9			
sigma sr. prut : 106 prurez : 10 rez : 2.55 [m]			
1 1.00 6 -159.6 0.0 159.6			

vyuziti prurezu : 76.0 % **UPE 270** VYHOVI !

Vyhledano pro

Prurez : 10

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x MPa	tau Mpa	sig.srov. Mpa
-----	-----	-----	-----



sigma min prut	:	105	prurez	:	11	rez	:	0.00 [m]
1 2.00 6		-160.1				0.0		160.1
sigma max prut	:	105	prurez	:	11	rez	:	0.00 [m]
3 12.00 6		166.9				0.0		166.9
tau prut	:	104	prurez	:	11	rez	:	0.00 [m]
2 7.50 6		-0.0				44.1		44.1
sigma sr. prut	:	105	prurez	:	11	rez	:	0.00 [m]
3 12.00 6		166.9				0.0		166.9

vyuziti prurezu : 79.5 % **USV 450/200/20/30** VYHOVI !

Vyhledano pro

Prurez : 11

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	130	prurez	:	12	rez	:	2.55 [m]
1 1.00 12		-176.1				0.0		176.1
sigma max prut	:	130	prurez	:	12	rez	:	2.55 [m]
1 9.00 12		170.3				0.0		170.3
tau prut	:	131	prurez	:	12	rez	:	1.20 [m]
1 12.50 12		-0.0				-56.1		56.1
sigma sr. prut	:	130	prurez	:	12	rez	:	2.55 [m]
1 1.00 12		-176.1				0.0		176.1

vyuziti prurezu : 83.8 % **IPE 500** VYHOVI !

Vyhledano pro

Prurez : 12

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	7	prurez	:	13	rez	:	0.75 [m]
1 2.00 3		-122.6				0.0		122.6
sigma max prut	:	7	prurez	:	13	rez	:	0.75 [m]
3 12.00 3		132.9				0.0		132.9
tau prut	:	10	prurez	:	13	rez	:	0.56 [m]
2 7.50 3		1.4				-49.1		49.1
sigma sr. prut	:	7	prurez	:	13	rez	:	0.75 [m]
3 12.00 3		132.9				0.0		132.9

vyuziti prurezu : 63.3 % **USV 400/150/15/20** VYHOVI !

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	55	prurez	:	14	rez	:	0.85 [m]
1 10.00 9		-184.9				0.0		184.9
sigma max prut	:	71	prurez	:	14	rez	:	0.00 [m]



1	3.00	15	182.6		0.0	182.6					
tau		prut	:	72	prurez	:	14	rez	:	0.85	[m]
1	1.50	12	0.6		-37.0	37.0					
sigma sr.		prut	:	55	prurez	:	14	rez	:	0.85	[m]
1	10.00	9	-184.9		0.0	184.9					

vyuziti prurezu : 88.0 % **UPE 270** VYHOVI !

Vyhledano pro

Prurez : 14

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	64	prurez	:	15	rez	:	0.42	[m]
1 16.00	15	-186.7		0.0	186.7				
sigma max prut	:	64	prurez	:	15	rez	:	0.42	[m]
1 8.00	15	186.1		0.0	186.1				
tau prut	:	61	prurez	:	15	rez	:	0.00	[m]
1 4.50	3	0.4		36.8	36.8				
sigma sr. prut	:	64	prurez	:	15	rez	:	0.42	[m]
1 16.00	15	-186.7		0.0	186.7				

vyuziti prurezu : 88.9 % **IPE 120** VYHOVI !

Vyhledano pro

Prurez : 15

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	32	prurez	:	16	rez	:	0.00	[m]
1 16.00	12	-183.4		0.0	183.4				
sigma max prut	:	32	prurez	:	16	rez	:	0.00	[m]
1 8.00	12	183.4		0.0	183.4				
tau prut	:	28	prurez	:	16	rez	:	0.00	[m]
1 12.50	12	-0.8		82.9	143.5				
sigma sr. prut	:	32	prurez	:	16	rez	:	0.00	[m]
1 16.00	12	-183.4		0.0	183.4				

vyuziti prurezu : 87.3 % **HEB 450** VYHOVI !

Vyhledano pro

Prurez : 16

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	43	prurez	:	17	rez	:	0.72	[m]
1 1.00	15	-169.3		0.0	169.3				
sigma max prut	:	44	prurez	:	17	rez	:	0.00	[m]
3 11.00	15	168.0		0.0	168.0				
tau prut	:	39	prurez	:	17	rez	:	0.00	[m]
2 7.50	15	0.0		54.2	54.2				



sigma sr. prut : 43 prurez : 17 rez : 0.72 [m]
1 1.00 15 -169.3 0.0 169.3

vyuziti prurezu : 80.6 % **USV 450/250/20/30** VYHOVI !

Vyhledano pro

Prurez : 17

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 93	prurez : 18	rez : 0.60 [m]
1 1.00 6	-44.7	0.0	44.7
sigma max prut	: 93	prurez : 18	rez : 0.60 [m]
1 3.00 15	41.3	0.0	41.3
tau prut	: 93	prurez : 18	rez : 1.20 [m]
1 1.50 12	-1.7	-13.0	13.0
sigma sr. prut	: 93	prurez : 18	rez : 0.60 [m]
1 1.00 6	-44.7	0.0	44.7

vyuziti prurezu : 21.3 % **UPE 100** VYHOVI !

Vyhledano pro

Prurez : 18

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 136	prurez : 19	rez : 5.00 [m]
1 1.00 3	-160.2	0.0	160.2
sigma max prut	: 136	prurez : 19	rez : 5.00 [m]
1 8.00 9	163.1	0.0	163.1
tau prut	: 136	prurez : 19	rez : 10.00 [m]
1 12.50 15	1.1	-37.8	37.8
sigma sr. prut	: 136	prurez : 19	rez : 5.00 [m]
1 8.00 9	163.1	0.0	163.1

vyuziti prurezu : 77.6 % **HEA 320** VYHOVI !

Vyhledano pro

Prurez : 19

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 145	prurez : 20	rez : 0.00 [m]
1 20.00 9	-147.8	0.0	147.8
sigma max prut	: 144	prurez : 20	rez : 2.55 [m]
1 10.00 9	187.4	0.0	187.4
tau prut	: 145	prurez : 20	rez : 2.55 [m]
1 15.50 8	23.7	-11.2	23.7
sigma sr. prut	: 144	prurez : 20	rez : 2.55 [m]
1 10.00 9	187.4	0.0	187.4



vyuziti prurezu : 89.2 % **I 380** VYHOVI !

Vyhledano pro

Prurez : 20

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 141	prurez : 21	rez : 0.25 [m]
1 8.00 15	-178.5	0.0	178.5
sigma max prut	: 141	prurez : 21	rez : 0.25 [m]
1 16.00 15	205.6	0.0	205.6
tau prut	: 137	prurez : 21	rez : 0.25 [m]
1 2.50 3	105.9	43.1	105.9
sigma sr. prut	: 141	prurez : 21	rez : 0.25 [m]
1 16.00 15	205.6	0.0	205.6

vyuziti prurezu : 97.9 % **HEB 260** VYHOVI !

Vyhledano pro

Prurez : 21

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 134	prurez : 22	rez : 0.00 [m]
1 16.00 9	-102.2	0.0	102.2
sigma max prut	: 134	prurez : 22	rez : 0.00 [m]
1 8.00 9	61.7	0.0	61.7
tau prut	: 134	prurez : 22	rez : 2.55 [m]
1 12.50 9	-19.4	-31.0	31.0
sigma sr. prut	: 134	prurez : 22	rez : 0.00 [m]
1 16.00 9	-102.2	0.0	102.2

vyuziti prurezu : 48.7 % **HEA 300** VYHOVI !

Vyhledano pro

Prurez : 22

Sled kombinaci : 1..15

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 184	prurez : 23	rez : 1.00 [m]
1 3.00 13	-191.0	0.0	191.0
sigma max prut	: 184	prurez : 23	rez : 1.00 [m]
1 1.00 13	129.7	0.0	129.7
tau prut	: 187	prurez : 23	rez : 1.00 [m]
1 4.00 15	-32.3	0.0	32.3
sigma sr. prut	: 184	prurez : 23	rez : 1.00 [m]
1 3.00 13	-191.0	0.0	191.0

vyuziti prurezu : 90.9 % **JAKL 60x60x4** VYHOVI !



Vyhledano pro

Prurez : 23

Sled kombinací : 1..15

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 167	prurez : 24	rez : 0.00 [m]
1 3.00 10	-170.7	0.0	170.7
sigma max prut	: 167	prurez : 24	rez : 0.00 [m]
1 1.00 10	170.8	0.0	170.8
tau prut	: 204	prurez : 24	rez : 0.80 [m]
1 4.00 15	-1.9	0.0	1.9
sigma sr. prut	: 167	prurez : 24	rez : 0.00 [m]
1 1.00 10	170.8	0.0	170.8

vyuziti prurezu : 81.3 % **JAKL 60x60x3** VYHOVI !

Vyhledano pro

Prurez : 24

Sled kombinací : 1..15

Vypočtové napětí na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 210	prurez : 25	rez : 0.80 [m]
1 2.00 10	-90.6	0.0	90.6
sigma max prut	: 210	prurez : 25	rez : 0.80 [m]
1 10.00 10	88.4	0.0	88.4
tau prut	: 205	prurez : 25	rez : 0.00 [m]
1 1.50 4	-5.4	11.8	11.8
sigma sr. prut	: 210	prurez : 25	rez : 0.80 [m]
1 2.00 10	-90.6	0.0	90.6

vyuziti prurezu : 43.1 % **UPE 100** VYHOVI !

Vyhledano pro

Prurez : 25

Sled kombinací : 1..15

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 188	prurez : 26	rez : 0.80 [m]
1 4.00 7	-191.6	0.0	191.6
sigma max prut	: 188	prurez : 26	rez : 0.80 [m]
1 2.00 7	191.7	0.0	191.7
tau prut	: 193	prurez : 26	rez : 0.80 [m]
1 4.00 15	0.0	0.0	0.0
sigma sr. prut	: 188	prurez : 26	rez : 0.80 [m]
1 2.00 7	191.7	0.0	191.7

vyuziti prurezu : 91.3 % **JAKL 100x60x4** VYHOVI !

Vyhledano pro

Prurez : 26

Sled kombinací : 1..15



Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	198	prurez	:	27	rez	:	1.57	[m]
1 2.00 10		-69.3			0.0				69.3
sigma max prut	:	198	prurez	:	27	rez	:	1.57	[m]
1 4.00 3		23.2			0.0				23.2
tau prut	:	198	prurez	:	27	rez	:	1.57	[m]
1 2.50 10		-67.1			49.2				67.1
sigma sr. prut	:	198	prurez	:	27	rez	:	1.57	[m]
1 2.00 10		-69.3			0.0				69.3

vyuziti prurezu : 39.0 % **P8x200** VYHOVI !

Vyhledano pro

Prurez : 27

Sled kombinaci : 1..15

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	175	prurez	:	28	rez	:	1.02	[m]
1 1.88 7		-12.6			0.0				12.6
sigma max prut	:	177	prurez	:	28	rez	:	1.28	[m]
1 1.38 7		20.0			0.0				20.0
tau prut	:	199	prurez	:	28	rez	:	1.44	[m]
1 2.88 15		6.9			0.0				6.9
sigma sr. prut	:	177	prurez	:	28	rez	:	1.28	[m]
1 1.38 7		20.0			0.0				20.0

vyuziti prurezu : 9.5 % **TR f32x2,6** VYHOVI !

Vyhledano pro

Prurez : 28

Sled kombinaci : 1..15

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	221	prurez	:	29	rez	:	4.33	[m]
1 1.00 15		-100.5			0.0				100.5
sigma max prut	:	222	prurez	:	29	rez	:	0.00	[m]
1 2.00 15		57.9			0.0				57.9
tau prut	:	222	prurez	:	29	rez	:	1.00	[m]
1 1.50 15		-7.5			-12.6				12.6
sigma sr. prut	:	221	prurez	:	29	rez	:	4.33	[m]
1 1.00 15		-100.5			0.0				100.5

vyuziti prurezu : 47.8 % **UPE 200** VYHOVI !

Vyhledano pro

Prurez : 29

Sled kombinaci : 1..15

2.3 NÁVRH NOSNÍKU DRÁŽKY POD PL. +18,00 m a +21,40 m

DRÁŽKA - NOSNOST 100 kN

EL. POHON

Nosnost kladkostroje $Q = 100$ kN
Vlastní tíha $G = 1,01$ kN
Součinitel zatížení $n = 1,5$
Dynamický souč. $\delta = 1,2$
Rozpětí drážky $L = 2550$ mm
 $L_z = 2550$ mm
Převislý konec $L_k = 400$ mm
Tíha drážky $g = 0,925$ kN/m

Profil :

I 380

$A = 1,07E+04$ mm ²	$h = 380$ mm	$t_f = 20,5$ mm
$I_y = 2,40E+08$ mm ⁴	$W_y = 1,26E+06$ mm ³	$i_y = 149,8$ mm
$I_z = 9,72E+06$ mm ⁴	$W_z = 1,30E+05$ mm ³	$i_z = 30,1$ mm
$I_o = 3,03E+11$ mm ⁴	$I_t = 1,39E+06$ mm ⁴	$i_{z1} = 35,7$ mm
$W_{y,pl} = 1,27E+06$ mm ³	$W_{z,pl} = 1,89E+05$ mm ³	$t_w = 13,7$ mm
$W_o = 2,30E+07$ mm ⁴	$r = 13$ mm	$b = 149$ mm

Materiál : S 235 $f_y = 355$ Mpa $f_u = 510$ Mpa
 $\gamma_{M1} = 1,15$ $\gamma_Q = 1,2$

Účinky zatížení :

Ohybový moment :

svislý $M_{sd} = 117,037$ kNm
vodorovný $M_{sd,v} = 11,591$ kNm
 $M_{Lv} = 2,568$ kNm
 $k = 0,00133$ mm⁻¹ $kl = 3,3915$ $\eta_B = 0,073682$
Bimoment $B_v = 0,483$ kNm²

Osová síla $N = 15,1515 \text{ kN}$ Reakce : $A_{sd} = 212,71 \text{ kN}$ **Návrhové únosnosti průřezu:** $N_{Rd} = 3,30E+06 \text{ N}$ $M_{y,Rd} = 3,92E+08 \text{ Nmm}$ $M_{z,Rd} = 5,83E+07 \text{ Nmm}$ $V_{pl,Rd} = 8,78E+05 \text{ N}$ $B_{v,Rd} = 7,10E+09$ $k_{yz} = 1,84E+00$ $\varphi_v = 1 < 1$ **Posouzení:****Horní příruba :****Vzpěr:** $\lambda_{s \text{ pruhem}, y} = 0,2229$ $\alpha_1 = 0,34$ $\Phi = 0,5287$ $\chi_y = 0,9919$ $\lambda_{s \text{ pruhem}, z} = 1,1074$ $\alpha_1 = 0,49$ $\Phi = 1,3355$ $\chi_z = 0,4803$
 $\chi_{min} = 0,48031$ **Klopení:** $\kappa_M(G3) = 0,86$ $e_z = 0$ $\kappa(1;0,5) = 1$ $\alpha_t = 1,66E+00$ $\gamma = 8,321E-01$ $\lambda = 5,112E+01$ $\lambda^*_{LT} = 0,6709$ $\Phi = 0,8404$ $C = 2,60E+02$ $\chi_{LT} = 0,74263$ $k_y = 9,96E-01$ $0,9963807$ $k_z = 9,93E-01$ $0,992526$ $k_{LT} = 9,93E-01$ $0,992526$ $N_{sd}/N_{rd}/\chi_{min} + k_y \cdot M_{ysd}/M_{y,Rd} + k_z \cdot M_{zsd}/M_{z,Rd} - B_v/W_o < 1 = 0,48 < 1$ $N_{sd}/N_{rd}/\chi_z + k_{LT} \cdot M_{ysd}/M_{y,Rd}/\chi_{LT} + k_z \cdot M_{zsd}/M_{z,Rd} - B_v/B_{v,Rd} < 1 = 0,54 < 1$ **Dolní příruba :**Lokální napětí příruby $\sigma_L = 131,94 \text{ Mpa}$ $N_{sd}/N_{rd} + M_{ysd}/M_{y,Rd} + M_{zsd}/M_{z,Rd} + B_v/W_o + \sigma_L < 1 = 0,95 < 1$ **Posouzení mezního stavu použitelnosti :** $\delta_{max} = 5 M_{ysd} \cdot L^2 / 48 \cdot E \cdot I_y \cdot \gamma_Q = 1,31E+00 \text{ mm} < L / 400 = 6,38E+00 \text{ mm}$

**Přípoj drážky :**Tah v jednom šroubu $h_p = 359,5 \text{ mm}$ $p = 80 \text{ mm}$ $b_p = 114,5 \text{ mm}$ $d = 20 \text{ mm}$ Šrouby : **2xM20** Jakost šroubu 8,8

Jakost materiálu S 355 MPa

 $f_{ub} = 800,0 \text{ MPa}$ $f_u = 510 \text{ MPa}$ $A_s = 245 \text{ mm}^2$ $F_{t,Rd} = 125,44 \text{ kN}$ $N = 91,234 \text{ kN} < 125,44 \text{ kN}$ **Posouzení převislého konce :****Účinky zatížení :**

Ohybový moment :

svislý $M_{sd} = 60,608 \text{ kNm}$ vodorovný $M_{sd,v} = 7,273 \text{ kNm}$ $M_{Lv} = 2,568 \text{ kNm}$ $k = 0,00133 \text{ mm}^{-1}$ $kl = 0,532$ $\eta_B = 0,24198$ Bimoment $B_v = 0,249 \text{ kNm}^2$ Osová síla $N = 15,1515 \text{ kN}$ Reakce : $A_{sd} = 177,65 \text{ kN}$ **Posouzení:****Horní příruba :** $N_{sd}/N_{rd} + M_{ysd}/M_y + R_{d} + M_{zsd}/M_z + B_v/W_o < 1 = 0,29 < 1$ **Dolní příruba :****Vzpěr:** λ s pruhem, $y = 0,0699$ $\alpha_1 = 0,34$ $\Phi = 0,4803$ $\chi_y = 1,0000$



Lambda s pruhem, $\lambda = 0,3474$ $\alpha_1 = 0,49$ $\Phi = 0,5965$ $\chi_z = 0,9248$
 $\chi_{min} = 0,92480$

Klopení:

$\kappa_M(G3) = 0,86$ $e_z = 0$ $\kappa(1;0,5) = 1$ $\alpha_t = 5,22E-01$
 $\gamma = 1,735E+00$ $\lambda = 3,344E+01$ $\lambda^*_{LT} = 0,4388$ $\Phi = 0,6548$
 $C = 5,97E+01$ $\chi_{LT} = 0,87658$
 $\kappa_y = 9,96E-01$ $0,9964101$ $\kappa_z = 9,96E-01$ $0,996118$ $\kappa_{LT} = 9,96E-01$ $0,996118$

$N_{sd}/N_{rd}/\chi_{min} + \kappa_y \cdot M_{ysd}/M_{y,Rd} + \kappa_z \cdot M_{zsd}/M_{z,Rd} - B_v/W_o < 1 = 0,27 < 1$

$N_{sd}/N_{rd}/\chi_z + \kappa_{LT} \cdot M_{ysd}/M_{y,Rd}/\chi_{LT} + \kappa_z \cdot M_{zsd}/M_{z,Rd} - B_v/W_o < 1 = 0,20 < 1$

Návrhové únosnost ve smyku:

$V_{pl,Rd} = A_v f_y / \gamma_{M0} (3)^{0,5} = 818233,35 \text{ N}$

$A_v = A - 2 b t_f + (t_w + 2 r) t_f = 4,59E+03 \text{ mm}^2$

$V_{Sd} < V_{pl,Rd}$ $177,65 \text{ kN} < 818,233 \text{ kN}$

$177,65 \text{ kN} < 0,5 V_{pl,Rd} = 409,117 \text{ kN}$



2.4 PLOŠINA +21,400 m

ZATÍŽENÍ

1. Zatěžovací stav

Vlastní tíha $\gamma = 1,35$

Generována počítačem

2. Zatěžovací stav

Zatížení stálé $\gamma = 1,35$

Podlaha z plechu

$$g_{z1} = 1,2 \times 0,5 \times 0,8 = 0,48 \text{ kN/m}$$

$$g_{z2} = 1,2 \times 0,8 = 0,96 \text{ kN/m}$$

$$g_{z3} = 1,2 \times 0,5 \times (0,8 + 0,85) = 0,99 \text{ kN/m}$$

$$g_{z4} = 1,2 \times 0,85 = 1,02 \text{ kN/m}$$

$$g_{z5} = 1,2 \times 0,5 \times 0,85 = 0,51 \text{ kN/m}$$

$$P_{z1} = 0,25 \times (2 \times p \times 3,25 \times 0,8 \times 12,0 + p \times 3,25^2 \times 0,8) = 55,625 \text{ kN}$$

3. Zatěžovací stav

Zatížení náplní $\gamma = 1,5$

$$q = Q / A = p \times 3,25^2 \times 12,0 \times 10,0 / p \times 3,25^2 = 120 \text{ kN/m}^2$$

$$g_{z1} = 120,0 \times 0,5 \times 0,8 = 48,0 \text{ kN/m}$$

$$g_{z2} = 120,0 \times 0,8 = 96,0 \text{ kN/m}$$

$$g_{z3} = 120,0 \times 0,5 \times (0,8 + 0,85) = 99,0 \text{ kN/m}$$

$$g_{z4} = 120,0 \times 0,85 = 102,0 \text{ kN/m}$$

$$g_{z5} = 120,0 \times 0,5 \times 0,85 = 51,0 \text{ kN/m}$$

4. - 11. Zatěžovací stav

Zatížení drážkou $\gamma = 1,5$

$$P_{z1} = 118,17 \text{ kN}$$

$$P_{x1} = 11,591 \text{ kN}$$

TVAR KONSTRUKCE

U Z L Y

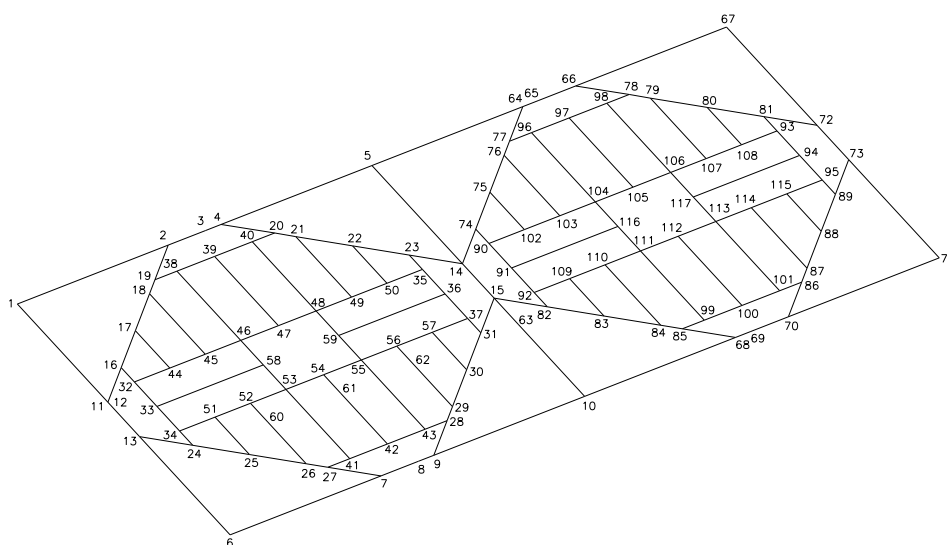
uzel	X[m]	Y[m]	Z[m]	typ
1	0.0000	0.0000	0.0000	
2	0.0000	3.4040	0.0000	
3	0.0000	4.2500	0.0000	
4	0.0000	4.5960	0.0000	
5	0.0000	8.0000	0.0000	
6	8.0000	0.0000	0.0000	
7	8.0000	3.4040	0.0000	
8	8.0000	4.2500	0.0000	
9	8.0000	4.5960	0.0000	
10	8.0000	8.0000	0.0000	
11	3.4040	0.0000	0.0000	
12	3.5000	0.0000	0.0000	
13	4.5960	0.0000	0.0000	
14	3.4040	8.0000	0.0000	
15	4.5960	8.0000	0.0000	
16	2.6540	0.7500	0.0000	
17	1.8540	1.5500	0.0000	
18	1.0540	2.3500	0.0000	
19	0.7500	2.6540	0.0000	
20	0.7500	5.3560	0.0000	



21	1.0540	5.6500	0.0000
22	1.8540	6.4500	0.0000
23	2.6540	7.2500	0.0000
24	5.3460	0.7500	0.0000
25	6.1460	1.5500	0.0000
26	6.9460	2.3500	0.0000
27	7.2500	2.6540	0.0000
28	7.2500	5.3460	0.0000
29	6.9460	5.6500	0.0000
30	6.1460	6.4500	0.0000
31	5.3460	7.2500	0.0000
32	3.1500	0.7500	0.0000
33	4.0000	0.7500	0.0000
34	4.8500	0.7500	0.0000
35	3.1500	7.2500	0.0000
36	4.0000	7.2500	0.0000
37	4.8500	7.2500	0.0000
38	0.7500	3.1500	0.0000
39	0.7500	4.0000	0.0000
40	0.7500	4.8500	0.0000
41	7.2500	3.1500	0.0000
42	7.2500	4.0000	0.0000
43	7.2500	4.8500	0.0000
44	3.1500	1.5500	0.0000
45	3.1500	2.3500	0.0000
46	3.1500	3.1500	0.0000
47	3.1500	4.0000	0.0000
48	3.1500	4.8500	0.0000
49	3.1500	5.6500	0.0000
50	3.1500	6.4500	0.0000
51	4.8500	1.5500	0.0000
52	4.8500	2.3500	0.0000
53	4.8500	3.1500	0.0000
54	4.8500	4.0000	0.0000
55	4.8500	4.8500	0.0000
56	4.8500	5.6500	0.0000
57	4.8500	6.4500	0.0000
58	4.0000	3.1500	0.0000
59	4.0000	4.8500	0.0000
60	5.5000	2.3500	0.0000
61	5.5000	4.0000	0.0000
62	5.5000	5.6500	0.0000
63	5.5000	8.0000	0.0000
64	0.0000	11.4040	0.0000
65	0.0000	11.7500	0.0000
66	0.0000	12.5960	0.0000
67	0.0000	16.0000	0.0000
68	8.0000	11.4040	0.0000
69	8.0000	11.7500	0.0000
70	8.0000	12.5960	0.0000
71	8.0000	16.0000	0.0000
72	3.4040	16.0000	0.0000
73	4.5960	16.0000	0.0000
74	2.6540	8.7500	0.0000
75	1.8540	9.5500	0.0000
76	1.0540	10.3500	0.0000
77	0.7500	10.6540	0.0000
78	0.7500	13.3560	0.0000
79	1.0540	13.6500	0.0000
80	1.8540	14.4500	0.0000



81	2.6540	15.2500	0.0000
82	5.3460	8.7500	0.0000
83	6.1460	9.5500	0.0000
84	6.9460	10.3500	0.0000
85	7.2500	10.6540	0.0000
86	7.2500	13.3460	0.0000
87	6.9460	13.6500	0.0000
88	6.1460	14.4500	0.0000
89	5.3460	15.2500	0.0000
90	3.1500	8.7500	0.0000
91	4.0000	8.7500	0.0000
92	4.8500	8.7500	0.0000
93	3.1500	15.2500	0.0000
94	4.0000	15.2500	0.0000
95	4.8500	15.2500	0.0000
96	0.7500	11.1500	0.0000
97	0.7500	12.0000	0.0000
98	0.7500	12.8500	0.0000
99	7.2500	11.1500	0.0000
100	7.2500	12.0000	0.0000
101	7.2500	12.8500	0.0000
102	3.1500	9.5500	0.0000
103	3.1500	10.3500	0.0000
104	3.1500	11.1500	0.0000
105	3.1500	12.0000	0.0000
106	3.1500	12.8500	0.0000
107	3.1500	13.6500	0.0000
108	3.1500	14.4500	0.0000
109	4.8500	9.5500	0.0000
110	4.8500	10.3500	0.0000
111	4.8500	11.1500	0.0000
112	4.8500	12.0000	0.0000
113	4.8500	12.8500	0.0000
114	4.8500	13.6500	0.0000
115	4.8500	14.4500	0.0000
116	4.0000	11.1500	0.0000
117	4.0000	12.8500	0.0000



P R U T Y					
prut	zac	konec	delka [m]	prurez	typ



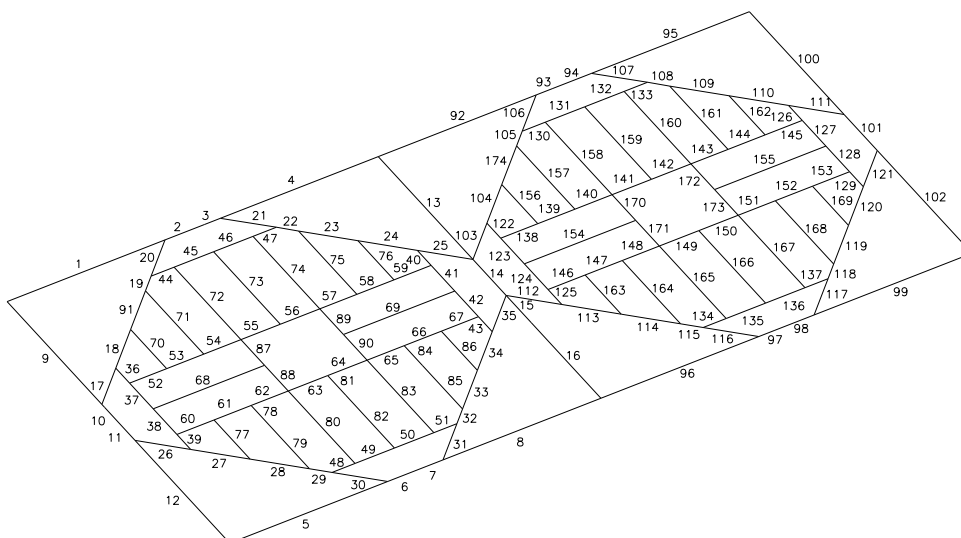
1	1	2	3.4040	13
2	2	3	0.8460	13
3	3	4	0.3460	10
4	4	5	3.4040	10
5	6	7	3.4040	11
6	7	8	0.8460	11
7	8	9	0.3460	11
8	9	10	3.4040	11
9	1	11	3.4040	9
10	11	12	0.0960	9
11	12	13	1.0960	9
12	13	6	3.4040	9
13	5	14	3.4040	12
14	14	15	1.1920	12
15	15	63	0.9040	12
16	63	10	2.5000	12
17	11	16	1.0607	1
18	16	17	1.1314	1
19	18	19	0.4299	1
20	19	2	1.0607	1
21	4	20	1.0678	1
22	20	21	0.4229	1
23	21	22	1.1314	1
24	22	23	1.1314	1
25	23	14	1.0607	1
26	13	24	1.0607	1
27	24	25	1.1314	1
28	25	26	1.1314	1
29	26	27	0.4299	1
30	27	7	1.0607	1
31	9	28	1.0607	1
32	28	29	0.4299	1
33	29	30	1.1314	1
34	30	31	1.1314	1
35	31	15	1.0607	1
36	16	32	0.4960	2
37	32	33	0.8500	2
38	33	34	0.8500	2
39	34	24	0.4960	2
40	23	35	0.4960	2
41	35	36	0.8500	2
42	36	37	0.8500	2
43	37	31	0.4960	2
44	19	38	0.4960	2
45	38	39	0.8500	2
46	39	40	0.8500	2
47	40	20	0.5060	2
48	27	41	0.4960	2
49	41	42	0.8500	2
50	42	43	0.8500	2
51	43	28	0.4960	2
52	32	44	0.8000	4
53	44	45	0.8000	4
54	45	46	0.8000	4
55	46	47	0.8500	5
56	47	48	0.8500	5
57	48	49	0.8000	4
58	49	50	0.8000	4
59	50	35	0.8000	4
60	34	51	0.8000	4



61	51	52	0.8000	4
62	52	53	0.8000	4
63	53	54	0.8500	5
64	54	55	0.8500	5
65	55	56	0.8000	4
66	56	57	0.8000	4
67	57	37	0.8000	4
68	33	58	2.4000	7
69	59	36	2.4000	7
70	17	44	1.2960	6
71	18	45	2.0960	7
72	38	46	2.4000	3
73	39	47	2.4000	7
74	40	48	2.4000	3
75	21	49	2.0960	7
76	22	50	1.2960	6
77	51	25	1.2960	6
78	52	60	0.6500	8
79	60	26	1.4460	8
80	53	41	2.4000	3
81	54	61	0.6500	8
82	61	42	1.7500	8
83	55	43	2.4000	3
84	56	62	0.6500	8
85	62	29	1.4460	8
86	57	30	1.2960	6
87	46	58	0.8500	3
88	58	53	0.8500	3
89	48	59	0.8500	3
90	59	55	0.8500	3
91	17	18	1.1314	1
92	5	64	3.4040	10
93	64	65	0.3460	10
94	65	66	0.8460	13
95	66	67	3.4040	13
96	10	68	3.4040	15
97	68	69	0.3460	15
98	69	70	0.8460	15
99	70	71	3.4040	15
100	67	72	3.4040	14
101	72	73	1.1920	14
102	73	71	3.4040	14
103	14	74	1.0607	1
104	74	75	1.1314	1
105	76	77	0.4299	1
106	77	64	1.0607	1
107	66	78	1.0678	1
108	78	79	0.4229	1
109	79	80	1.1314	1
110	80	81	1.1314	1
111	81	72	1.0607	1
112	15	82	1.0607	1
113	82	83	1.1314	1
114	83	84	1.1314	1
115	84	85	0.4299	1
116	85	68	1.0607	1
117	70	86	1.0607	1
118	86	87	0.4299	1
119	87	88	1.1314	1
120	88	89	1.1314	1



121	89	73	1.0607	1
122	74	90	0.4960	2
123	90	91	0.8500	2
124	91	92	0.8500	2
125	92	82	0.4960	2
126	81	93	0.4960	2
127	93	94	0.8500	2
128	94	95	0.8500	2
129	95	89	0.4960	2
130	77	96	0.4960	2
131	96	97	0.8500	2
132	97	98	0.8500	2
133	98	78	0.5060	2
134	85	99	0.4960	2
135	99	100	0.8500	2
136	100	101	0.8500	2
137	101	86	0.4960	2
138	90	102	0.8000	4
139	102	103	0.8000	4
140	103	104	0.8000	4
141	104	105	0.8500	5
142	105	106	0.8500	5
143	106	107	0.8000	4
144	107	108	0.8000	4
145	108	93	0.8000	4
146	92	109	0.8000	4
147	109	110	0.8000	4
148	110	111	0.8000	4
149	111	112	0.8500	5
150	112	113	0.8500	5
151	113	114	0.8000	4
152	114	115	0.8000	4
153	115	95	0.8000	4
154	91	116	2.4000	7
155	117	94	2.4000	7
156	75	102	1.2960	6
157	76	103	2.0960	7
158	96	104	2.4000	3
159	97	105	2.4000	7
160	98	106	2.4000	3
161	79	107	2.0960	7
162	80	108	1.2960	6
163	109	83	1.2960	6
164	110	84	2.0960	8
165	111	99	2.4000	3
166	112	100	2.4000	8
167	113	101	2.4000	3
168	114	87	2.0960	8
169	115	88	1.2960	6
170	104	116	0.8500	3
171	116	111	0.8500	3
172	106	117	0.8500	3
173	117	113	0.8500	3
174	75	76	1.1314	1



P R U R E Z Y - charakteristiky

PRUREZ c. 1 (I svar)

plocha A[m2] = 2.91000E-02

mom.setr. Iy[m4] = 3.17593E-03

mom.setr. Iw[m8] = 2.00104E-05

Prvek 1 P 30.300

Prvek 2 P 15.740

Prvek 3 P 30.300

poloha teziste Y = 150.00 Z = -400.00

rotace prurezu Rx[st] = 0.00

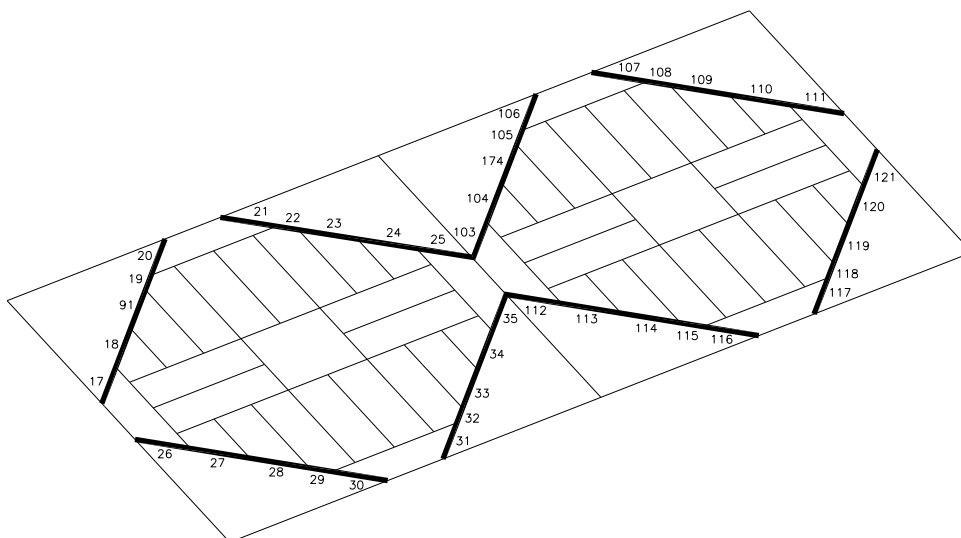
mom.setr. Ix[m4] = 7.70869E-06

mom.setr. Iz[m4] = 1.35208E-04

ocel 37

ocel 37

ocel 37



PRUREZ c. 2 (I svar)

plocha A[m2] = 2.68500E-02

mom.setr. Iy[m4] = 1.98787E-03

mom.setr. Iw[m8] = 1.29735E-05

Prvek 1 P 30.300

Prvek 2 P 15.590

Prvek 3 P 30.300

poloha teziste Y = 150.00 Z = -325.00

rotace prurezu Rx[st] = 0.00

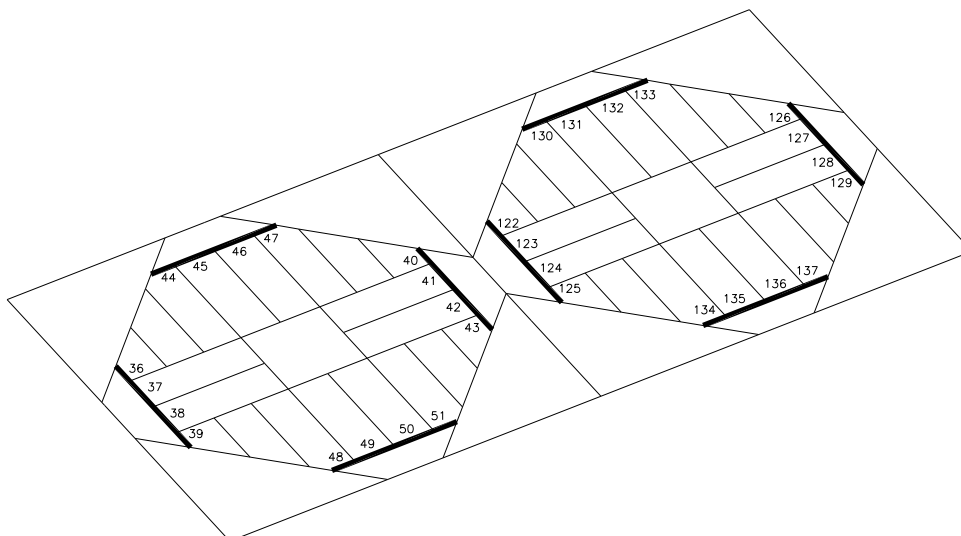
mom.setr. Ix[m4] = 7.48763E-06

mom.setr. Iz[m4] = 1.35166E-04

ocel 37

ocel 37

ocel 37



PRUREZ c. 3 (I svar)

plocha A[m2] = 2.91000E-02

mom.setr. Iy[m4] = 3.17593E-03

mom.setr. Iw[m8] = 2.00104E-05

Prvek 1 P 30.300

Prvek 2 P 15.740

Prvek 3 P 30.300

poloha teziste Y = 150.00

rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 7.70869E-06

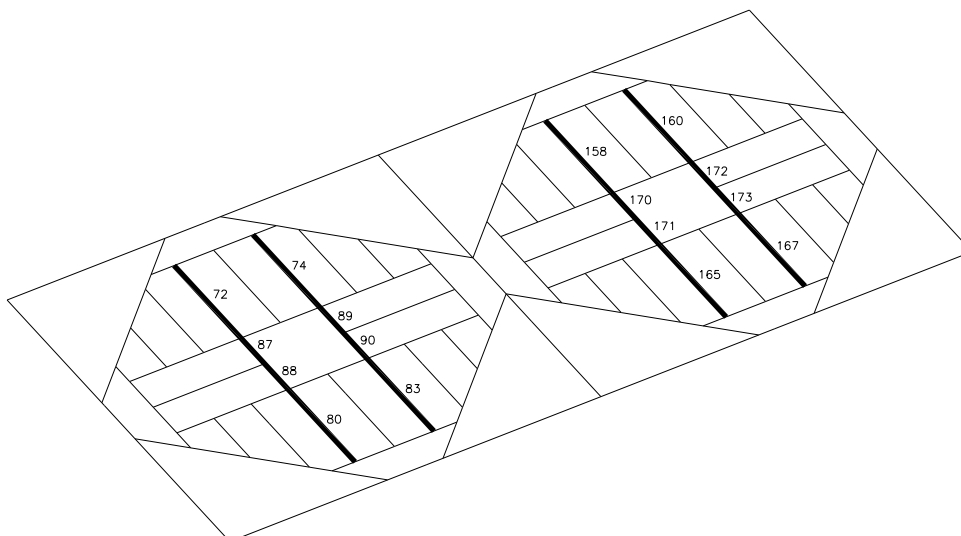
mom.setr. Iz[m4] = 1.35208E-04

ocel 52

ocel 52

ocel 52

Z = -400.00



PRUREZ c. 4 (HE-A)

plocha A[m2] = 1.59562E-02

mom.setr. Iy[m4] = 4.52309E-04

mom.setr. Iw[m8] = 2.94208E-06

Prvek 1 HE-A 400

poloha teziste Y = 150.00

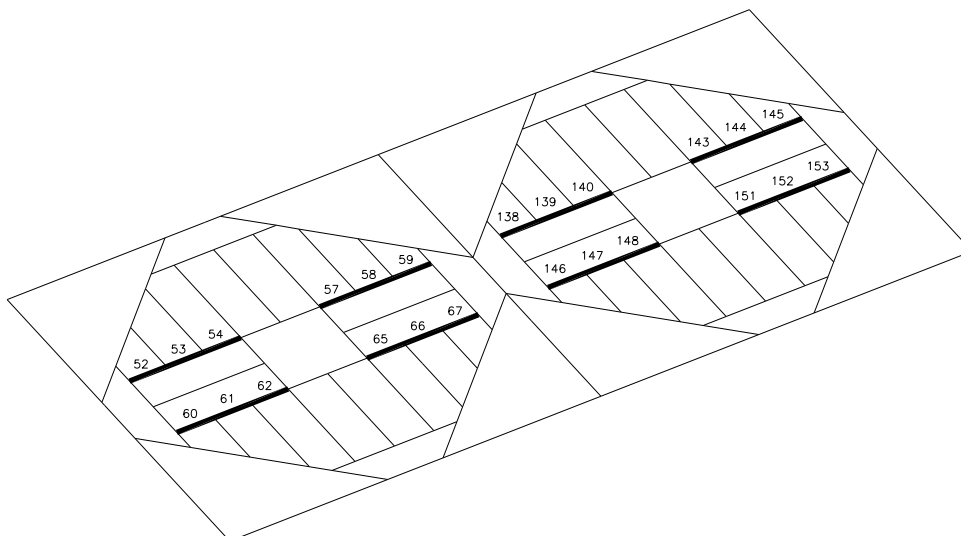
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.47046E-06

mom.setr. Iz[m4] = 8.56560E-05

ocel 37

Z = -195.00



PRUREZ c. 5 (IPE)

plocha A[m2] = 7.29888E-03

mom.setr. Iy[m4] = 1.63327E-04

mom.setr. Iw[m8] = 3.13580E-07

Prvek 1 IPE 360

poloha teziste Y = 85.00

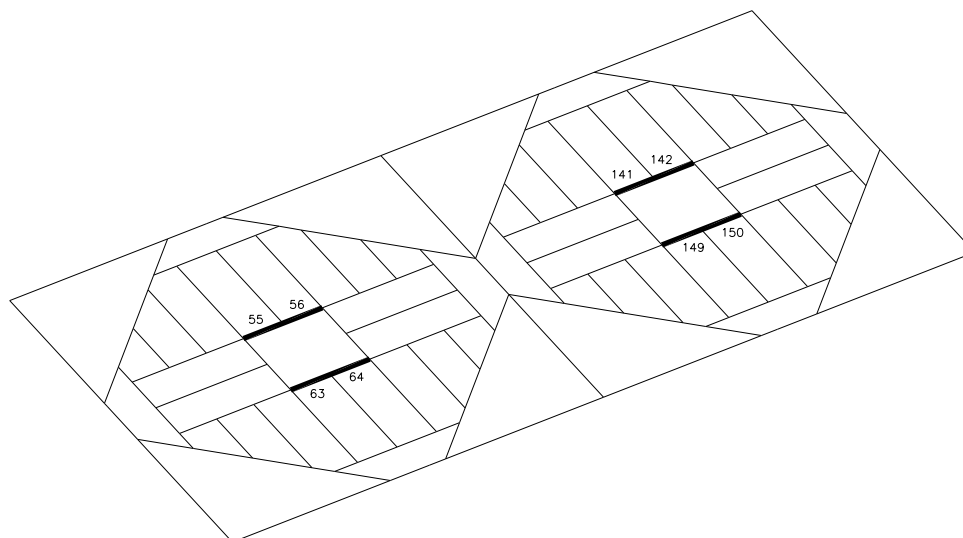
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.80000E-07

mom.setr. Iz[m4] = 1.04382E-05

ocel 37

Z = -180.00



PRUREZ c. 6 (IPE)

plocha A[m2] = 3.92965E-03

mom.setr. Iy[m4] = 3.91143E-05

mom.setr. Iw[m8] = 3.73912E-08

Prvek 1 IPE 240

poloha teziste Y = 60.00

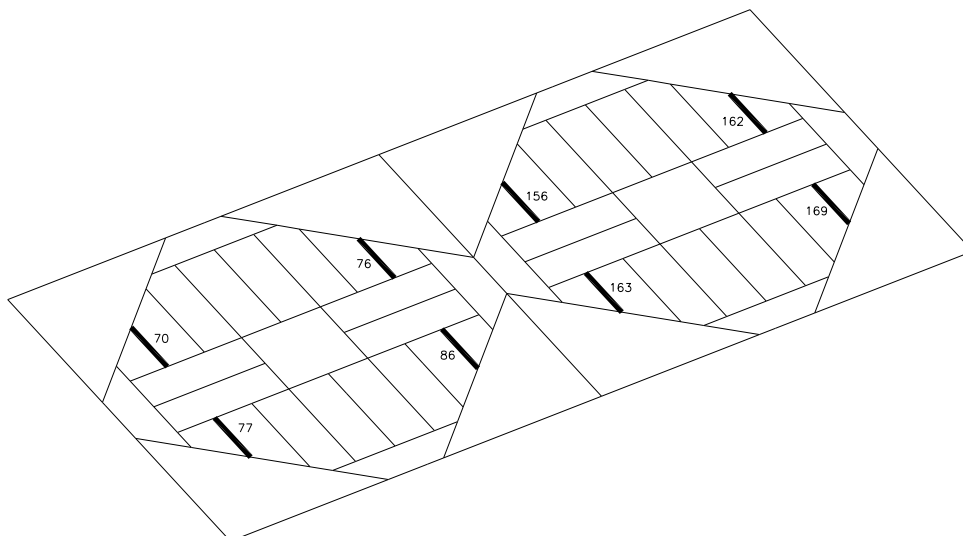
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.31000E-07

mom.setr. Iz[m4] = 2.83805E-06

ocel 37

Z = -120.00



PRUREZ c. 7 (IPE)

plocha A[m2] = 6.28658E-03

mom.setr. Iy[m4] = 1.18230E-04

mom.setr. Iw[m8] = 1.99097E-07

Prvek 1 IPE 330

poloha teziste Y = 80.00

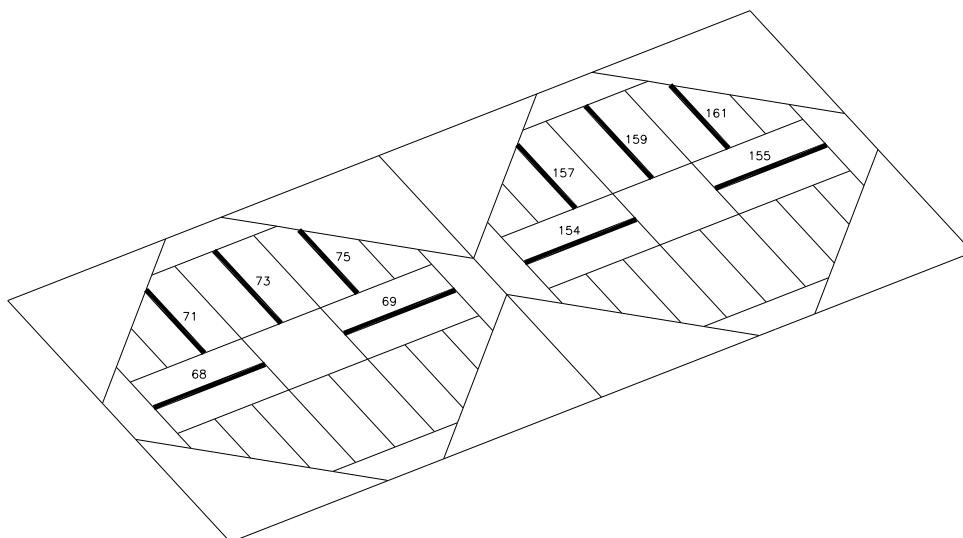
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.84000E-07

mom.setr. Iz[m4] = 7.88497E-06

ocel 37

Z = -165.00



PRUREZ c. 8 (HE-A)

plocha A[m2] = 1.59562E-02

mom.setr. Iy[m4] = 4.52309E-04

mom.setr. Iw[m8] = 2.94208E-06

Prvek 1 HE-A 400

poloha teziste Y = 150.00

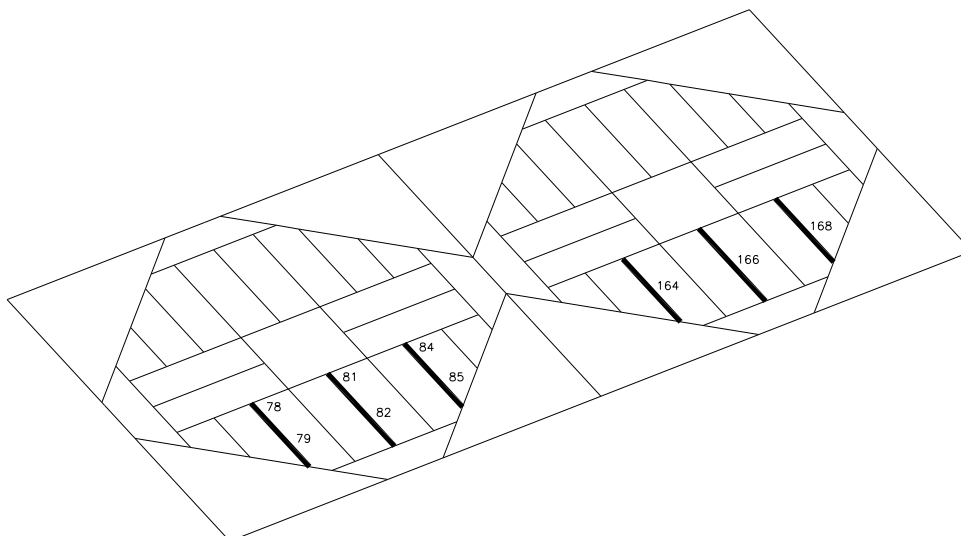
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.47046E-06

mom.setr. Iz[m4] = 8.56560E-05

ocel 37

Z = -195.00



PRUREZ c. 9 (U svar)

plocha A[m2] = 1.92500E-02

mom.setr. Iy[m4] = 8.19635E-04

mom.setr. Iw[m8] = 4.99861E-06

Prvek 1 P 25.250

Prvek 2 P 15.450

Prvek 3 P 25.250

poloha teziste Y = 83.80 Z = -250.00

rotace prurezu Rx[st] = 0.00

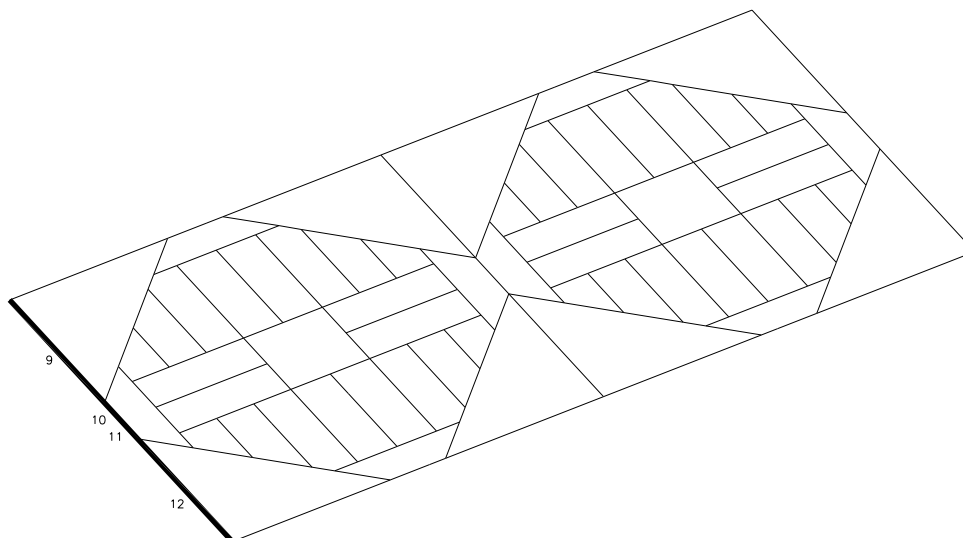
mom.setr. Ix[m4] = 3.28956E-06

mom.setr. Iz[m4] = 1.25745E-04

ocel 37

ocel 37

ocel 37



PRUREZ c. 10 (U svar)

plocha A[m2] = 3.18000E-02

mom.setr. Iy[m4] = 3.82734E-03

mom.setr. Iw[m8] = 2.43456E-05

Prvek 1 P 30.250

Prvek 2 P 20.840

Prvek 3 P 30.250

poloha teziste Y = 64.25 Z = -450.00

rotace prurezu Rx[st] = 0.00

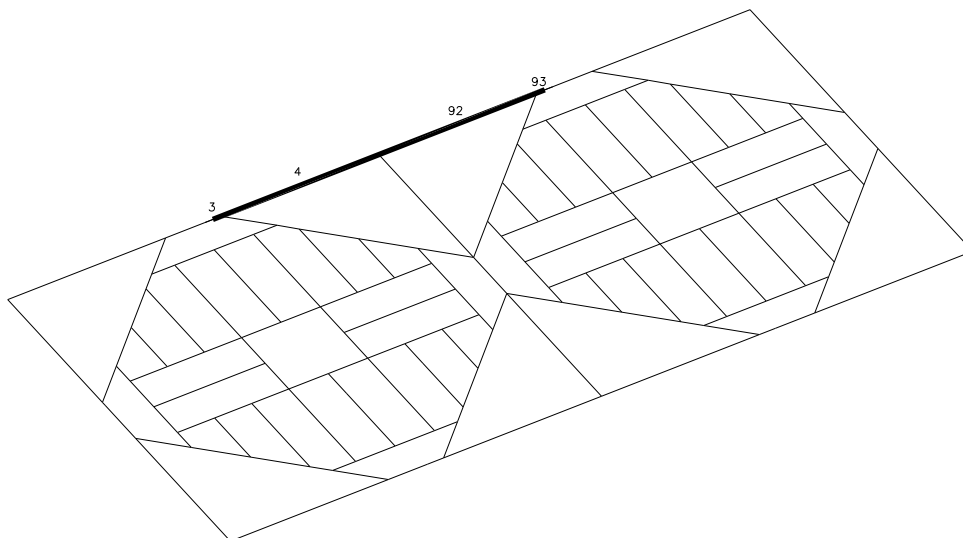
mom.setr. Ix[m4] = 7.13399E-06

mom.setr. Iz[m4] = 1.83487E-04

ocel 52

ocel 52

ocel 52



PRUREZ c. 11 (U svar)

plocha A[m2] = 2.37500E-02

mom.setr. Iy[m4] = 2.40495E-03

mom.setr. Iw[m8] = 1.54046E-05

Prvek 1 P 25.250

Prvek 2 P 15.750

Prvek 3 P 25.250

poloha teziste Y = 69.34 Z = -400.00

rotace prurezu Rx[st] = 0.00

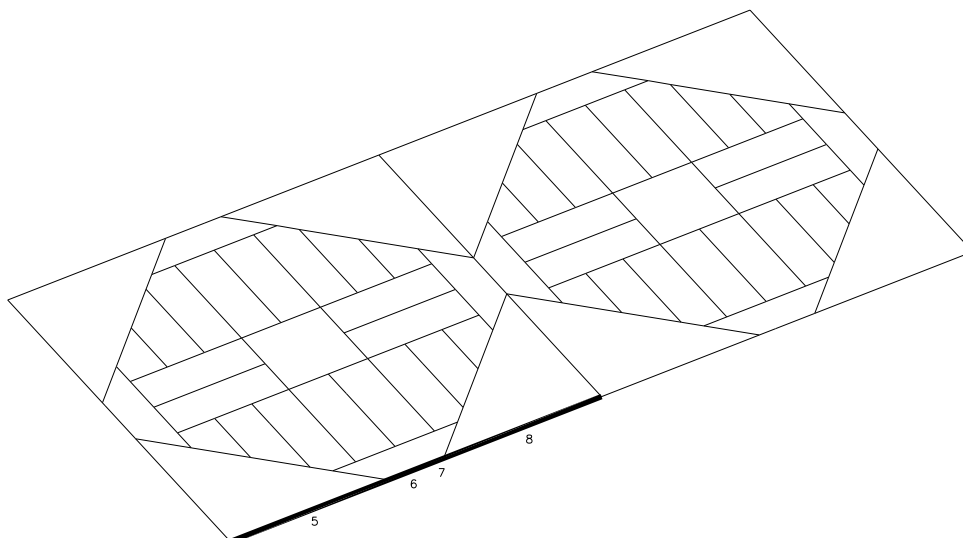
mom.setr. Ix[m4] = 3.66755E-06

mom.setr. Iz[m4] = 1.47063E-04

ocel 37

ocel 37

ocel 37



PRUREZ c. 12 (I svar)

plocha A[m2] = 5.04000E-02

mom.setr. Iy[m4] = 8.67488E-03

mom.setr. Iw[m8] = 9.83040E-05

Prvek 1 P 40.400

Prvek 2 P 20.920

Prvek 3 P 40.400

poloha teziste Y = 200.00 Z = -500.00

rotace prurezu Rx[st] = 0.00

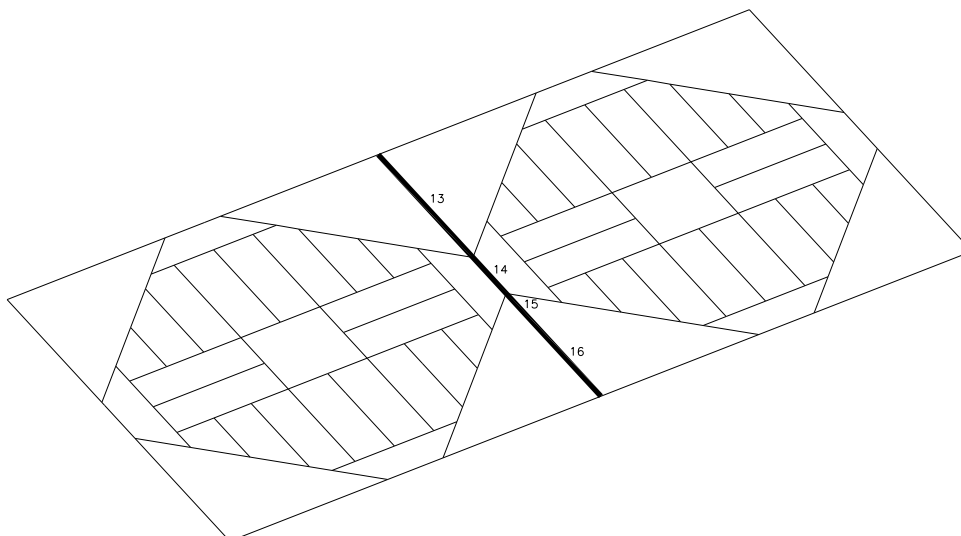
mom.setr. Ix[m4] = 2.41304E-05

mom.setr. Iz[m4] = 4.27280E-04

ocel 52

ocel 52

ocel 52



PRUREZ c. 13 (HE-B)

plocha A[m2] = 2.54642E-02

mom.setr. Iy[m4] = 1.37017E-03

mom.setr. Iw[m8] = 8.85576E-06

Prvek 1 HE-B 550

poloha teziste Y = 150.00

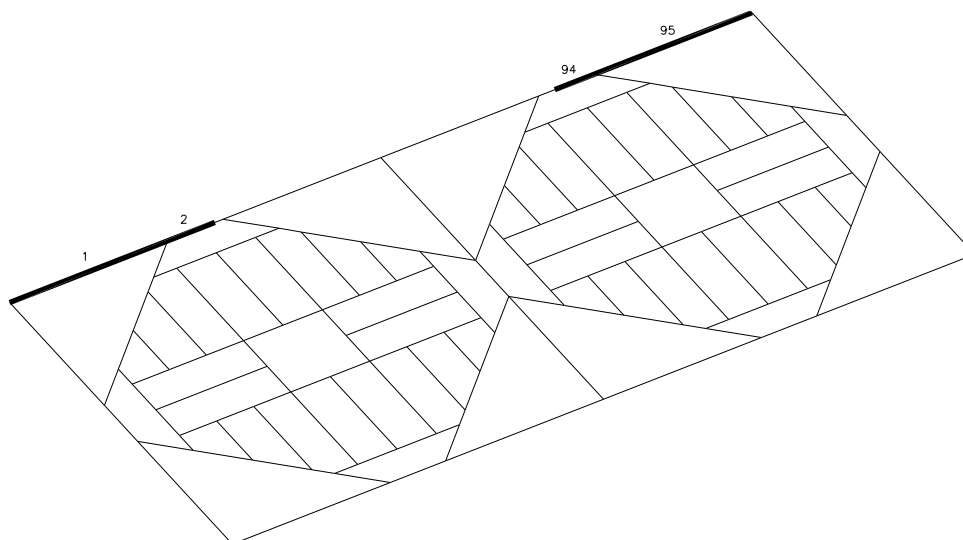
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.12601E-06

mom.setr. Iz[m4] = 1.30791E-04

ocel 52

Z = -275.00



PRUREZ c. 14 (U svar)

plocha A[m2] = 3.44000E-02

mom.setr. Iy[m4] = 3.51275E-03

mom.setr. Iw[m8] = 2.16442E-05

Prvek 1 P 40.250

Prvek 2 P 20.720

Prvek 3 P 40.250

poloha teziste Y = 76.86

rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.28712E-05

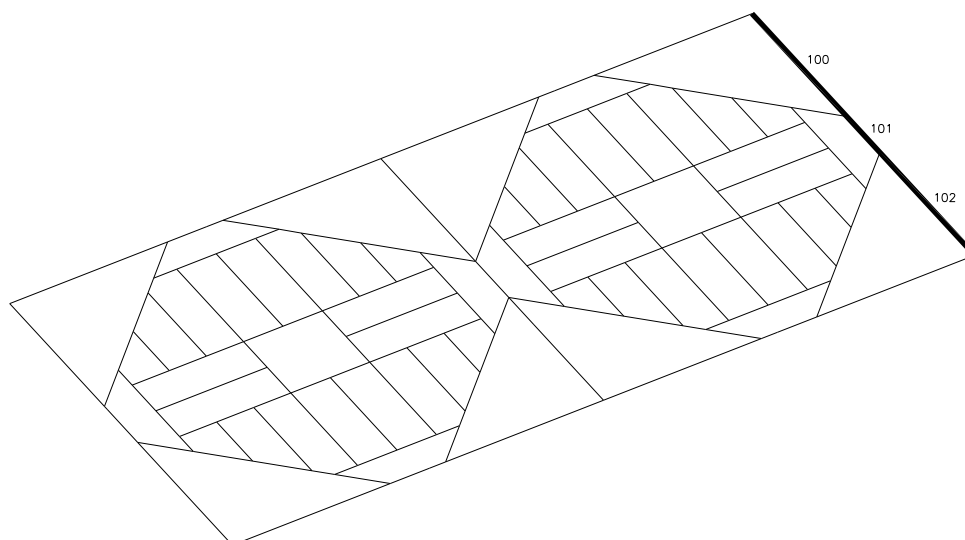
mom.setr. Iz[m4] = 2.15368E-04

ocel 52

ocel 52

ocel 52

Z = -400.00



PRUREZ c. 15 (I svar)

plocha A[m2] = 2.47500E-02

mom.setr. Iy[m4] = 2.05266E-03

mom.setr. Iw[m8] = 1.28145E-05

Prvek 1 P 25.300

Prvek 2 P 15.650

Prvek 3 P 25.300

poloha teziste Y = 150.00 Z = -350.00

rotace prurezu Rx[st] = 0.00

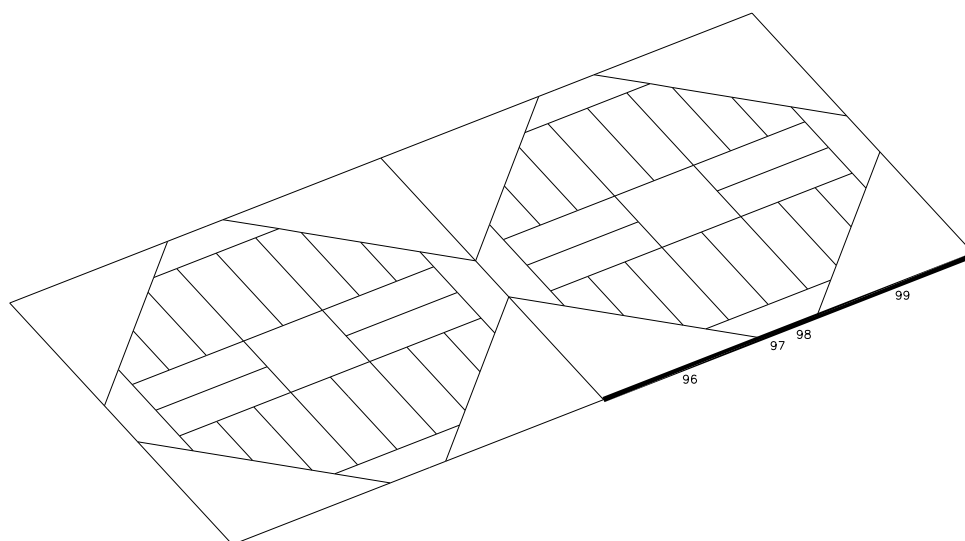
mom.setr. Ix[m4] = 4.82434E-06

mom.setr. Iz[m4] = 1.12683E-04

ocel 37

ocel 37

ocel 37



M A T E R I A L

Material c. 1 ocel 37

merna hmotnost [kg/m^3] : 7850.000
pevnost v tahu [MPa] : 210.000
pevnost v tlaku [MPa] : 210.000
pevnost ve smyku [MPa] : 126.000
modul pruznosti [MPa] : 210000.000
Poissonuv soucinitel : 0.300
Soucinitel tep. roztaznosti : 1.5E-0003



M A T E R I A L

Material c. 2 ocel 52

tlak
merna hmotnost [kg/m³] : 7850.000
pevnost v tahu [MPa] : 290.000
pevnost v tlaku [MPa] : 290.000
pevnost ve smyku [MPa] : 174.000
modul pružnosti [MPa] : 210000.000
Poissonuv součinitel : 0.300
Součinitel tep. roztažnosti : 1.5E-0003

Typický uzel : XYZRxRyRz

Typický prut : XYZMxMyMz

prut 13: zac kl.: MyMz
prut 17: zac kl.: MyMz
prut 20: kon kl.: MyMz
prut 21: zac kl.: MyMz
prut 25: kon kl.: MyMz
prut 26: zac kl.: MyMz
prut 30: kon kl.: MyMz
prut 31: zac kl.: MyMz
prut 35: kon kl.: MyMz
prut 36: zac kl.: MyMz
prut 39: kon kl.: MyMz
prut 40: zac kl.: MyMz
prut 43: kon kl.: MyMz
prut 44: zac kl.: MyMz
prut 47: kon kl.: MyMz
prut 48: zac kl.: MyMz
prut 51: kon kl.: MyMz
prut 52: zac kl.: MyMz
prut 54: kon kl.: MyMz
prut 55: zac kl.: MyMz
prut 56: kon kl.: MyMz
prut 57: zac kl.: MyMz
prut 59: kon kl.: MyMz
prut 60: zac kl.: MyMz
prut 62: kon kl.: MyMz
prut 63: zac kl.: MyMz
prut 64: kon kl.: MyMz
prut 65: zac kl.: MyMz
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prut 68: zac kl.: MyMz kon kl.: MyMz
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prut 71: zac kl.: MyMz kon kl.: MyMz
prut 72: zac kl.: MyMz
prut 73: zac kl.: MyMz kon kl.: MyMz



prut 74: zac kl.: MyMz
prut 75: zac kl.: MyMz kon kl.: MyMz
prut 76: zac kl.: MyMz kon kl.: MyMz
prut 77: zac kl.: MyMz kon kl.: MyMz
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prut 79: kon kl.: MyMz
prut 80: kon kl.: MyMz
prut 81: zac kl.: MyMz
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prut 83: kon kl.: MyMz
prut 84: zac kl.: MyMz
prut 85: kon kl.: MyMz
prut 86: zac kl.: MyMz kon kl.: MyMz
prut 103: zac kl.: MyMz
prut 106: kon kl.: MyMz
prut 107: zac kl.: MyMz
prut 111: kon kl.: MyMz
prut 112: zac kl.: MyMz
prut 116: kon kl.: MyMz
prut 117: zac kl.: MyMz
prut 121: kon kl.: MyMz
prut 122: zac kl.: MyMz
prut 125: kon kl.: MyMz
prut 126: zac kl.: MyMz
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prut 130: zac kl.: MyMz
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prut 141: zac kl.: MyMz
prut 142: kon kl.: MyMz
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prut 145: kon kl.: MyMz
prut 146: zac kl.: MyMz
prut 148: kon kl.: MyMz
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prut 150: kon kl.: MyMz
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prut 153: kon kl.: MyMz
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prut 155: zac kl.: MyMz kon kl.: MyMz
prut 156: zac kl.: MyMz kon kl.: MyMz
prut 157: zac kl.: MyMz kon kl.: MyMz
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prut 164: kon kl.: MyMz
prut 165: kon kl.: MyMz
prut 166: kon kl.: MyMz
prut 167: kon kl.: MyMz
prut 168: kon kl.: MyMz
prut 169: zac kl.: MyMz kon kl.: MyMz

P O D P O R Y



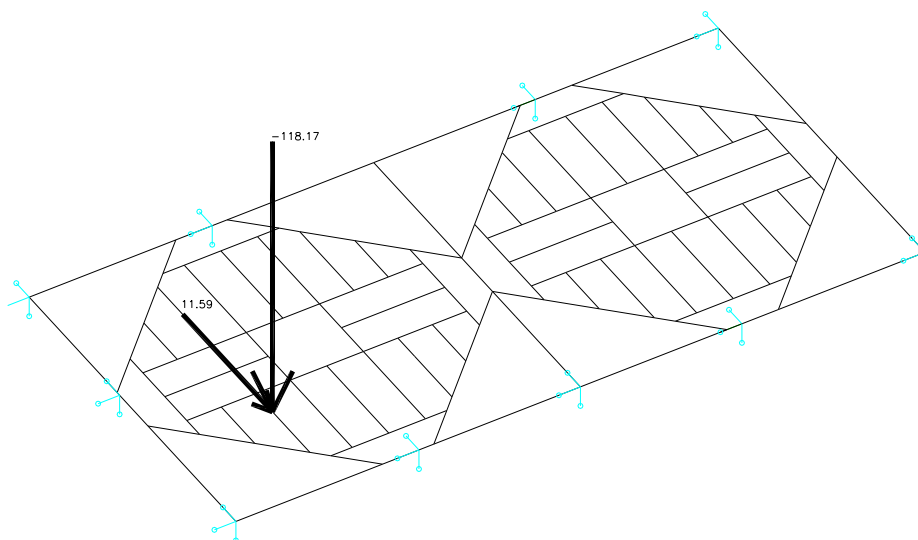
1	1	X Y Z
2	3	X Y Z
3	6	X Y Z
4	8	X Y Z
5	10	X Y Z
6	12	X Y Z
7	65	X Y Z
8	67	X Y Z
9	69	X Y Z
10	71	X Y Z

Z A T E Z O V A C I S T A V Y

1.	TIHA	/ 1.350	stale
2.	STALE		stale
3.	NAPLN ZASOBNIKU		stale
4.	DRAZKA		stale
5.	DRAZKA		stale
6.	DRAZKA		stale
7.	DRAZKA		stale
8.	DRAZKA		stale
9.	DRAZKA		stale
10.	DRAZKA		stale

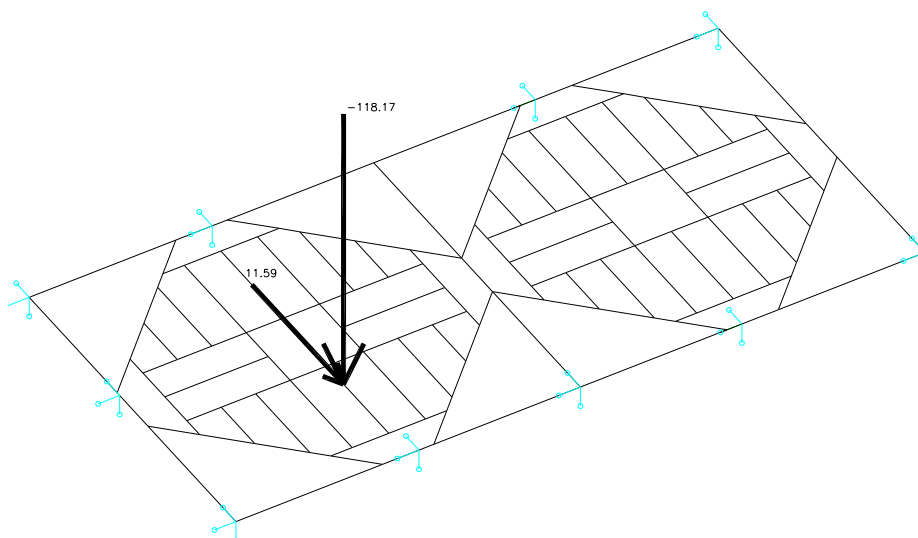
ZATIZENI V UZLECH - stav 4 (DRAZKA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
60	11.59		-118.17				1.50



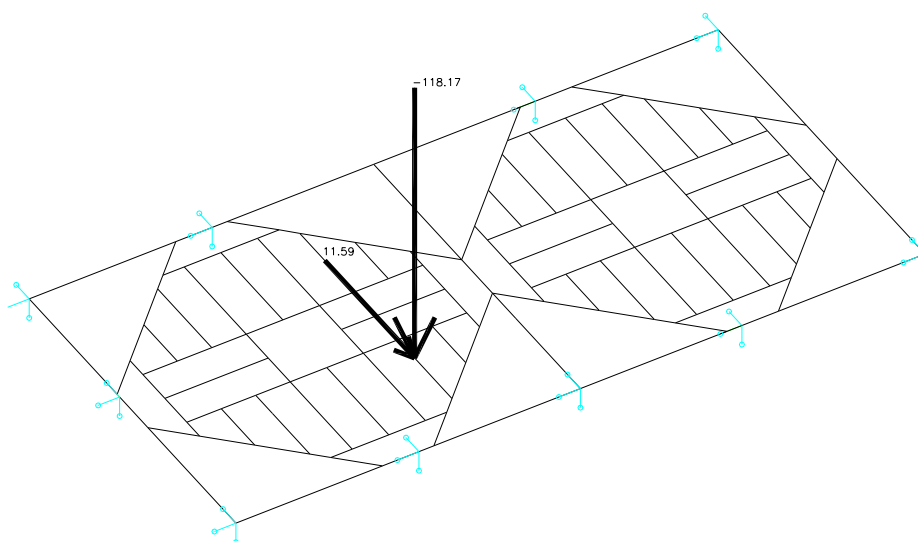
ZATIZENI V UZLECH - stav 5 (DRAZKA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
61	11.59		-118.17				1.50



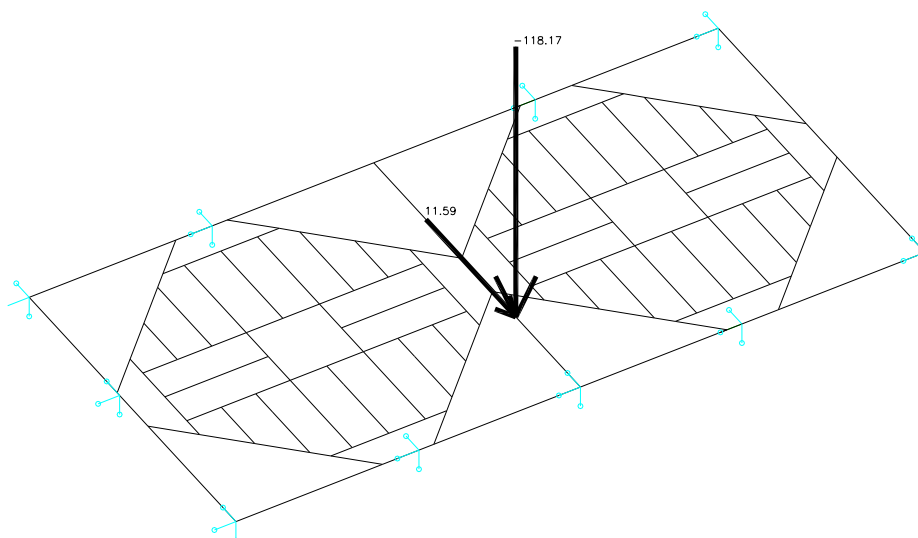
ZATÍŽENÍ V UZLECH - stav 6 (DRAŽKA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
62	11.59		-118.17				1.50



ZATÍŽENÍ V UZLECH - stav 7 (DRAŽKA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
63	11.59		-118.17				1.50

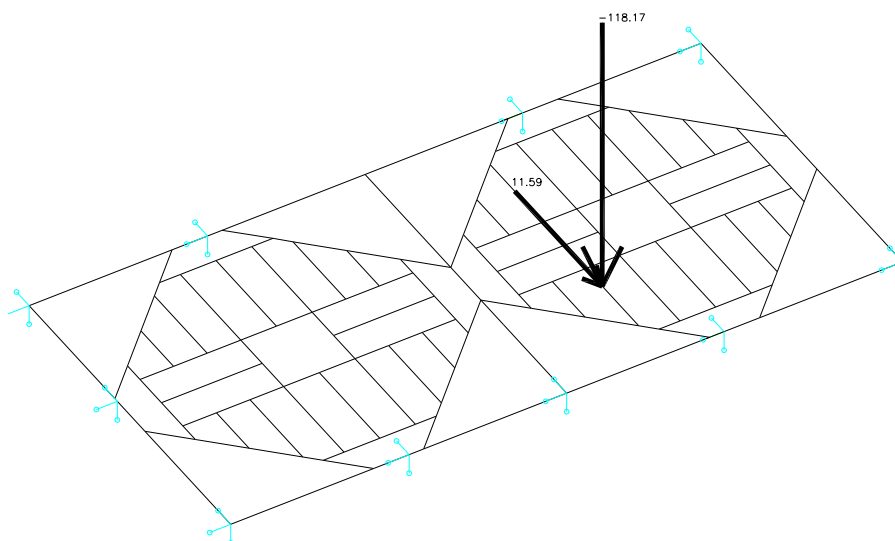


OSAMELE IMPULZY - stav 2 (STALE)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
23	sil			-55.6	glob	0.92m		1.35
28	sil			-55.6	glob	0.21m		1.35
33	sil			-55.6	glob	0.92m		1.35
91	sil			-55.6	glob	0.21m		1.35
109	sil			-55.6	glob	0.92m		1.35
114	sil			-55.6	glob	0.21m		1.35
119	sil			-55.6	glob	0.92m		1.35
174	sil			-55.6	glob	0.21m		1.35

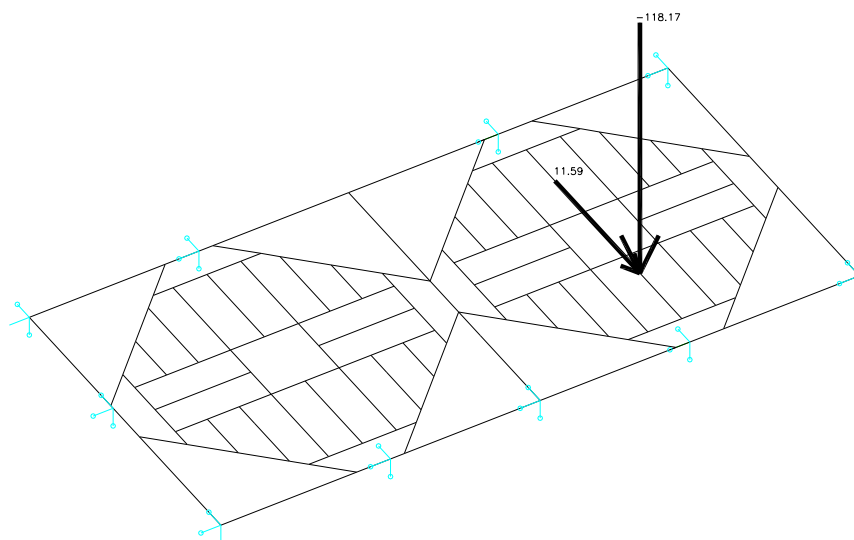
OSAMELE IMPULZY - stav 8 (DRAZKA)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
164	sil	11.6		-118.2	glob	0.65m		1.50



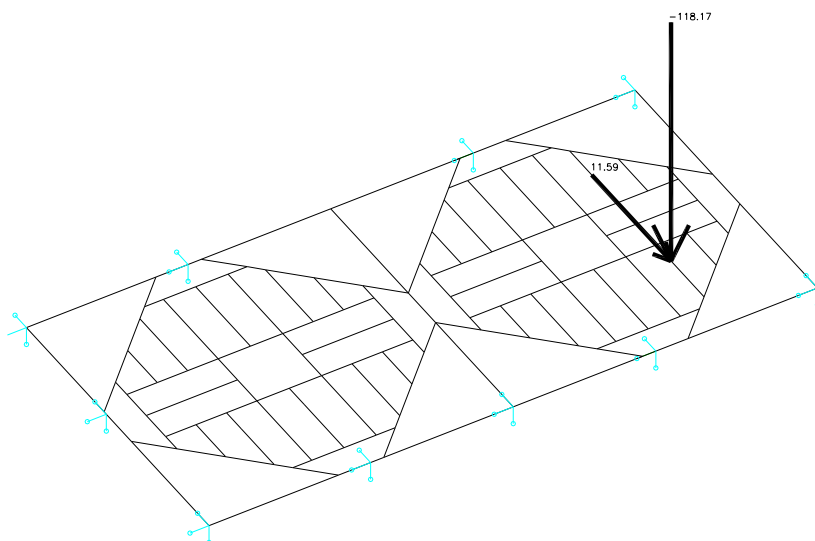
OSAMELE IMPULZY - stav 9 (DRAZKA)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
166	sil	11.6		-118.2	glob	0.65m		1.50



OSAMELE IMPULZY - stav 10 (DRAZKA)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
168	sil	11.6	-118.2	glob	0.65m			1.50



SPOJITE IMPULZY - stav 1 (TIHA

/ 1.350)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil		-2.00	glob	0.00%			1.35
			-2.00	del	1.00%			
2	sil		-2.00	glob	0.00%			1.35
			-2.00	del	1.00%			
3	sil		-2.50	glob	0.00%			1.35
			-2.50	del	1.00%			
4	sil		-2.50	glob	0.00%			1.35
			-2.50	del	1.00%			
5	sil		-1.86	glob	0.00%			1.35
			-1.86	del	1.00%			
6	sil		-1.86	glob	0.00%			1.35
			-1.86	del	1.00%			
7	sil		-1.86	glob	0.00%			1.35
			-1.86	del	1.00%			



8 sil	-1.86 glob	0.00%	1.35
	-1.86 del	1.00%	
9 sil	-1.51 glob	0.00%	1.35
	-1.51 del	1.00%	
10 sil	-1.51 glob	0.00%	1.35
	-1.51 del	1.00%	
11 sil	-1.51 glob	0.00%	1.35
	-1.51 del	1.00%	
12 sil	-1.51 glob	0.00%	1.35
	-1.51 del	1.00%	
13 sil	-3.96 glob	0.00%	1.35
	-3.96 del	1.00%	
14 sil	-3.96 glob	0.00%	1.35
	-3.96 del	1.00%	
15 sil	-3.96 glob	0.00%	1.35
	-3.96 del	1.00%	
16 sil	-3.96 glob	0.00%	1.35
	-3.96 del	1.00%	
17 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
18 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
19 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
20 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
21 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
22 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
23 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
24 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
25 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
26 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
27 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
28 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
29 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
30 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
31 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
32 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
33 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
34 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
35 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
36 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
37 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	



38 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
39 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
40 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
41 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
42 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
43 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
44 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
45 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
46 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
47 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
48 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
49 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
50 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
51 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
52 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
53 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
54 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
55 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
56 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
57 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
58 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
59 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
60 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
61 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
62 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
63 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
64 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
65 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
66 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
67 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	



68 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
69 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
70 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
71 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
72 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
73 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
74 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
75 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
76 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
77 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
78 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
79 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
80 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
81 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
82 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
83 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
84 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
85 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
86 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
87 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
88 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
89 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
90 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
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	-2.28 del	1.00%	
92 sil	-2.50 glob	0.00%	1.35
	-2.50 del	1.00%	
93 sil	-2.50 glob	0.00%	1.35
	-2.50 del	1.00%	
94 sil	-2.00 glob	0.00%	1.35
	-2.00 del	1.00%	
95 sil	-2.00 glob	0.00%	1.35
	-2.00 del	1.00%	
96 sil	-1.94 glob	0.00%	1.35
	-1.94 del	1.00%	
97 sil	-1.94 glob	0.00%	1.35
	-1.94 del	1.00%	



98 sil	-1.94 glob	0.00%	1.35
	-1.94 del	1.00%	
99 sil	-1.94 glob	0.00%	1.35
	-1.94 del	1.00%	
100 sil	-2.70 glob	0.00%	1.35
	-2.70 del	1.00%	
101 sil	-2.70 glob	0.00%	1.35
	-2.70 del	1.00%	
102 sil	-2.70 glob	0.00%	1.35
	-2.70 del	1.00%	
103 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
104 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
105 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
106 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
107 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
108 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
109 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
110 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
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	-2.28 del	1.00%	
112 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
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	-2.28 del	1.00%	
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	-2.28 del	1.00%	
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	-2.28 del	1.00%	
117 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
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	-2.28 del	1.00%	
119 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
120 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
121 sil	-2.28 glob	0.00%	1.35
	-2.28 del	1.00%	
122 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
123 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
124 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
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	-2.11 del	1.00%	
126 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
127 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	



128 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
129 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
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	-2.11 del	1.00%	
131 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
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	-2.11 del	1.00%	
133 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
134 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
135 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
136 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
137 sil	-2.11 glob	0.00%	1.35
	-2.11 del	1.00%	
138 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
139 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
140 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
141 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
142 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
143 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
144 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
145 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
146 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
147 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
148 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
149 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
150 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
151 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
152 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
153 sil	-1.25 glob	0.00%	1.35
	-1.25 del	1.00%	
154 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
155 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
156 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
157 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	



158	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	
159	sil	-0.49	glob	0.00%	1.35
		-0.49	del	1.00%	
160	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	
161	sil	-0.49	glob	0.00%	1.35
		-0.49	del	1.00%	
162	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
163	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
164	sil	-1.25	glob	0.00%	1.35
		-1.25	del	1.00%	
165	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	
166	sil	-1.25	glob	0.00%	1.35
		-1.25	del	1.00%	
167	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	
168	sil	-1.25	glob	0.00%	1.35
		-1.25	del	1.00%	
169	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
170	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	
171	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	
172	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	
173	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	
174	sil	-2.28	glob	0.00%	1.35
		-2.28	del	1.00%	

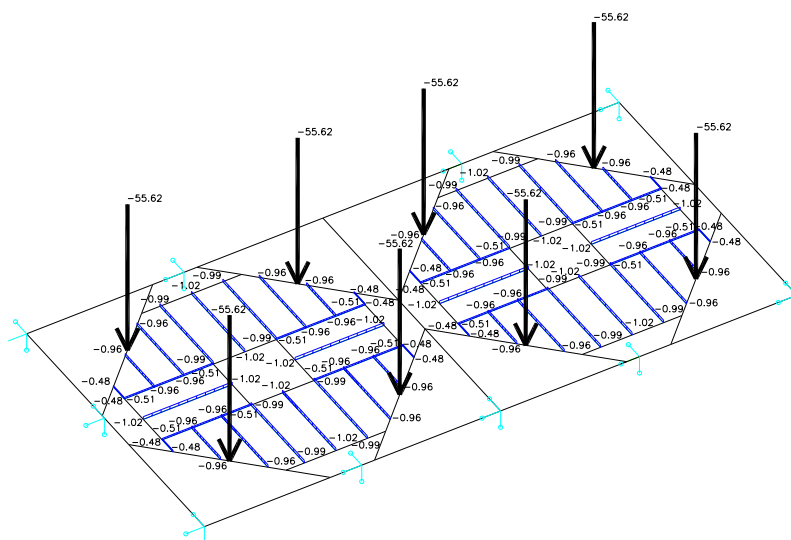
SPOJITE IMPULZY - stav 2 (STALE)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
36	sil			-0.48 glob	0.00%			1.35
				-0.48 prum	1.00%			
39	sil			-0.48 glob	0.00%			1.35
				-0.48 prum	1.00%			
40	sil			-0.48 glob	0.00%			1.35
				-0.48 prum	1.00%			
43	sil			-0.48 glob	0.00%			1.35
				-0.48 prum	1.00%			
52	sil			-0.51 glob	0.00%			1.35
				-0.51 prum	1.00%			
53	sil			-0.51 glob	0.00%			1.35
				-0.51 prum	1.00%			
54	sil			-0.51 glob	0.00%			1.35
				-0.51 prum	1.00%			
57	sil			-0.51 glob	0.00%			1.35
				-0.51 prum	1.00%			
58	sil			-0.51 glob	0.00%			1.35
				-0.51 prum	1.00%			
59	sil			-0.51 glob	0.00%			1.35
				-0.51 prum	1.00%			
60	sil			-0.51 glob	0.00%			1.35
				-0.51 prum	1.00%			



61 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
62 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
65 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
66 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
67 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
68 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
69 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
70 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
71 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
72 sil	-0.99 glob	0.00%	1.35
	-0.99 prum	1.00%	
73 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
74 sil	-0.99 glob	0.00%	1.35
	-0.99 prum	1.00%	
75 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
76 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
77 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
78 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
79 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
80 sil	-0.99 glob	0.00%	1.35
	-0.99 prum	1.00%	
81 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
82 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
83 sil	-0.99 glob	0.00%	1.35
	-0.99 prum	1.00%	
84 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
85 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
86 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
122 sil	-0.48 glob	0.00%	1.35
	-0.48 prum	1.00%	
125 sil	-0.48 glob	0.00%	1.35
	-0.48 prum	1.00%	
126 sil	-0.48 glob	0.00%	1.35
	-0.48 prum	1.00%	
129 sil	-0.48 glob	0.00%	1.35
	-0.48 prum	1.00%	
138 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
139 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	



140 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
143 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
144 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
145 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
146 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
147 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
148 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
151 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
152 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
153 sil	-0.51 glob	0.00%	1.35
	-0.51 prum	1.00%	
154 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
155 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
156 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
157 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
158 sil	-0.99 glob	0.00%	1.35
	-0.99 prum	1.00%	
159 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
160 sil	-0.99 glob	0.00%	1.35
	-0.99 prum	1.00%	
161 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
162 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
163 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
164 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
165 sil	-0.99 glob	0.00%	1.35
	-0.99 prum	1.00%	
166 sil	-1.02 glob	0.00%	1.35
	-1.02 prum	1.00%	
167 sil	-0.99 glob	0.00%	1.35
	-0.99 prum	1.00%	
168 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	
169 sil	-0.96 glob	0.00%	1.35
	-0.96 prum	1.00%	



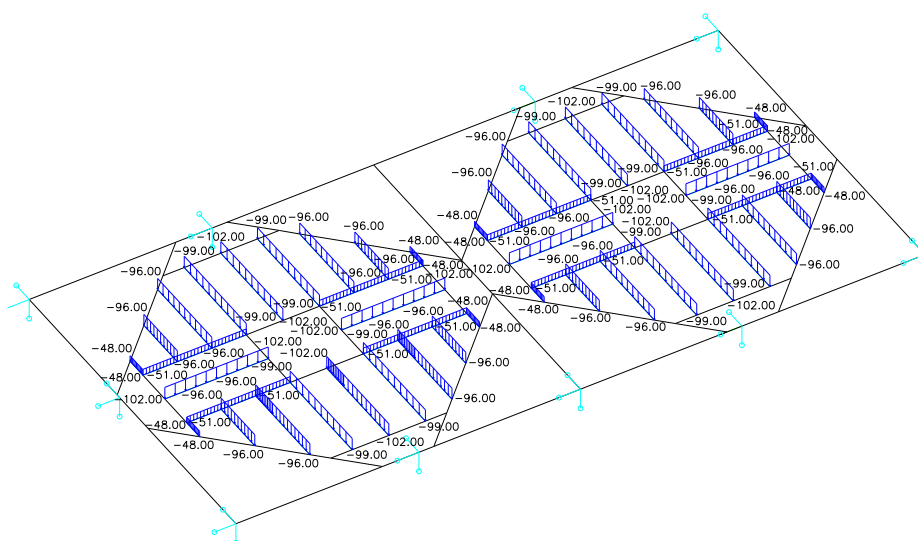
SPOJITE IMPULZY - stav 3 (NAPLN ZASOBNIKU)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
36	sil		-48.00	glob	0.00%			1.50
			-48.00	prum	1.00%			
39	sil		-48.00	glob	0.00%			1.50
			-48.00	prum	1.00%			
40	sil		-48.00	glob	0.00%			1.50
			-48.00	prum	1.00%			
43	sil		-48.00	glob	0.00%			1.50
			-48.00	prum	1.00%			
52	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
53	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
54	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
57	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
58	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
59	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
60	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
61	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
62	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
65	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
66	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
67	sil		-51.00	glob	0.00%			1.50
			-51.00	prum	1.00%			
68	sil		-102.00	glob	0.00%			1.50
			-102.00	prum	1.00%			
69	sil		-102.00	glob	0.00%			1.50
			-102.00	prum	1.00%			
70	sil		-96.00	glob	0.00%			1.50
			-96.00	prum	1.00%			



71 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
72 sil	-99.00 glob	0.00%	1.50
	-99.00 prum	1.00%	
73 sil	-102.00 glob	0.00%	1.50
	-102.00 prum	1.00%	
74 sil	-99.00 glob	0.00%	1.50
	-99.00 prum	1.00%	
75 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
76 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
77 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
78 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
79 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
80 sil	-99.00 glob	0.00%	1.50
	-99.00 prum	1.00%	
81 sil	-102.00 glob	0.00%	1.50
	-102.00 prum	1.00%	
82 sil	-102.00 glob	0.00%	1.50
	-102.00 prum	1.00%	
83 sil	-99.00 glob	0.00%	1.50
	-99.00 prum	1.00%	
84 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
85 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
86 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
122 sil	-48.00 glob	0.00%	1.50
	-48.00 prum	1.00%	
125 sil	-48.00 glob	0.00%	1.50
	-48.00 prum	1.00%	
126 sil	-48.00 glob	0.00%	1.50
	-48.00 prum	1.00%	
129 sil	-48.00 glob	0.00%	1.50
	-48.00 prum	1.00%	
138 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
139 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
140 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
143 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
144 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
145 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
146 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
147 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
148 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
151 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	



152 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
153 sil	-51.00 glob	0.00%	1.50
	-51.00 prum	1.00%	
154 sil	-102.00 glob	0.00%	1.50
	-102.00 prum	1.00%	
155 sil	-102.00 glob	0.00%	1.50
	-102.00 prum	1.00%	
156 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
157 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
158 sil	-99.00 glob	0.00%	1.50
	-99.00 prum	1.00%	
159 sil	-102.00 glob	0.00%	1.50
	-102.00 prum	1.00%	
160 sil	-99.00 glob	0.00%	1.50
	-99.00 prum	1.00%	
161 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
162 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
163 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
164 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
165 sil	-99.00 glob	0.00%	1.50
	-99.00 prum	1.00%	
166 sil	-102.00 glob	0.00%	1.50
	-102.00 prum	1.00%	
167 sil	-99.00 glob	0.00%	1.50
	-99.00 prum	1.00%	
168 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	
169 sil	-96.00 glob	0.00%	1.50
	-96.00 prum	1.00%	



K O M B I N A C E Z A T. S T A V U -
Kombinace c. 1

zat. stav : 1 stale koef : 1.00 vyber : 0



zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 2

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 3

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 4

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 5

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	7	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 6

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 7

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	9	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 8

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	10	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -



Kombinace c. 9

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	11	stale	koef :	1.00	vyber :	0

R E Z Y	N A	P R U T E C H			
prut	X	Ly	Lz	Lw	L1 stred Y stred Z

1	0.000%	1.248	1.000	1.000	
	1.000%	1.248	1.000	1.000	
2	0.000%	5.023	1.000	1.000	
	1.000%	5.023	1.000	1.000	
4	0.000%	2.000	1.000	1.000	
	1.000%	2.000	1.000	1.000	
5	0.000%	1.248	1.000	1.000	
	1.000%	1.248	1.000	1.000	
6	0.000%	5.023	1.000	1.000	
	1.000%	5.023	1.000	1.000	
8	0.000%	1.101	1.000	1.000	
	1.000%	1.101	1.000	1.000	
9	0.000%	1.028	1.000	1.000	
	1.000%	1.028	1.000	1.000	
10	0.000%	36.458	1.000	1.000	
	1.000%	36.458	1.000	1.000	
12	0.000%	4.105	1.000	1.000	
	1.000%	4.105	1.000	1.000	
13	0.000%	2.350	1.000	1.000	
	1.000%	2.350	1.000	1.000	
14	0.000%	6.710	1.000	1.000	
	1.000%	6.710	1.000	1.000	
15	0.000%	5.330	1.000	1.000	
	1.000%	5.330	1.000	1.000	
16	0.000%	3.200	1.000	1.000	
	1.000%	4.280	1.000	1.000	
17	0.000%	4.537	1.000	1.000	
	1.000%	4.537	1.000	1.000	
18	0.000%	4.280	1.000	1.000	
	1.000%	4.280	1.000	1.000	
19	0.000%	11.195	1.000	1.000	
	1.000%	11.195	1.000	1.000	
20	0.000%	4.537	1.000	1.000	
	1.000%	4.537	1.000	1.000	
21	0.000%	4.537	1.000	1.000	
	1.000%	4.537	1.000	1.000	
22	0.000%	11.195	1.000	1.000	
	1.000%	11.195	1.000	1.000	
23	0.000%	4.280	1.000	1.000	
	1.000%	4.280	1.000	1.000	
24	0.000%	4.280	1.000	1.000	
	1.000%	4.280	1.000	1.000	
25	0.000%	4.537	1.000	1.000	
	1.000%	4.537	1.000	1.000	
26	0.000%	4.537	1.000	1.000	
	1.000%	4.537	1.000	1.000	
27	0.000%	4.280	1.000	1.000	
	1.000%	4.280	1.000	1.000	
28	0.000%	4.280	1.000	1.000	
	1.000%	4.280	1.000	1.000	



29	0.000%	11.195	1.000	1.000
	1.000%	11.195	1.000	1.000
30	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
31	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
32	0.000%	11.195	1.000	1.000
	1.000%	11.195	1.000	1.000
33	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
34	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
35	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
36	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
37	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
38	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
39	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
40	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
41	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
42	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
43	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
44	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
45	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
46	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
47	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
48	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
49	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
50	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
51	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
55	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
56	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
63	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
64	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
72	0.000%	2.708		
	1.000%	2.708		
74	0.000%	2.708		
	1.000%	2.708		
80	0.000%	2.708		
	1.000%	2.708		



83	0.000%	2.708		
	1.000%	2.708		
87	0.000%	7.647	1.000	1.000
	1.000%	7.647	1.000	1.000
88	0.000%	7.647	1.000	1.000
	1.000%	7.647	1.000	1.000
89	0.000%	7.647	1.000	1.000
	1.000%	7.647	1.000	1.000
90	0.000%	7.647	1.000	1.000
	1.000%	7.647	1.000	1.000
91	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
92	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
93	0.000%	12.280	1.000	1.000
	1.000%	12.280	1.000	1.000
94	0.000%	12.280	1.000	1.000
	0.000%	5.023	1.000	1.000
	1.000%	5.023	1.000	1.000
95	0.000%	1.101	1.000	1.000
	1.000%	1.101	1.000	1.000
97	0.000%	12.280	1.000	1.000
	1.000%	12.280	1.000	1.000
98	0.000%	5.023	1.000	1.000
	1.000%	5.023	1.000	1.000
99	0.000%	1.101	1.000	1.000
	1.000%	1.101	1.000	1.000
100	0.000%	2.350	1.000	1.000
	1.000%	2.350	1.000	1.000
101	0.000%	6.710	1.000	1.000
	1.000%	6.710	1.000	1.000
102	0.000%	1.722	1.000	1.000
	1.000%	1.722	1.000	1.000
103	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
104	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
105	0.000%	11.195	1.000	1.000
	1.000%	11.195	1.000	1.000
106	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
107	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
108	0.000%	11.195	1.000	1.000
	1.000%	11.195	1.000	1.000
109	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
110	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
111	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
112	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
113	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
114	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
115	0.000%	11.195	1.000	1.000
	1.000%	11.195	1.000	1.000
116	0.000%	4.537	1.000	1.000



	1.000%	4.537	1.000	1.000
117	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
118	0.000%	11.195	1.000	1.000
	1.000%	11.195	1.000	1.000
119	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
120	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000
121	0.000%	4.537	1.000	1.000
	1.000%	4.537	1.000	1.000
122	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
125	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
126	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
129	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
130	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
131	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
132	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
133	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
134	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
135	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
136	0.000%	3.167	1.000	1.000
	1.000%	3.167	1.000	1.000
137	0.000%	5.427	1.000	1.000
	1.000%	5.427	1.000	1.000
141	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
142	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
149	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
150	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
158	0.000%	2.708		
	1.000%	2.708		
160	0.000%	2.708		
	1.000%	2.708		
165	0.000%	2.708		
	1.000%	2.708		
167	0.000%	2.708		
	1.000%	2.708		
170	0.000%	3.167	1.000	1.000
	0.000%	7.647	1.000	1.000
	1.000%	3.167	1.000	1.000
	1.000%	7.647	1.000	1.000
171	0.000%	3.167	1.000	1.000
	0.000%	7.647	1.000	1.000
	1.000%	3.167	1.000	1.000
	1.000%	7.647	1.000	1.000
172	0.000%	3.167	1.000	1.000



	0.000%	7.647	1.000	1.000
	1.000%	3.167	1.000	1.000
	1.000%	7.647	1.000	1.000
173	0.000%	3.167	1.000	1.000
	0.000%	7.647	1.000	1.000
	1.000%	3.167	1.000	1.000
	1.000%	7.647	1.000	1.000
174	0.000%	4.280	1.000	1.000
	1.000%	4.280	1.000	1.000

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum	3.radek	= rozdíl		
sila X								
31	0.000	4	-10.4	-0.4	1035.9	0.0	0.8	0.0
21	0.000	3	7.9	3.5	970.8	0.0	0.0	0.0
moment X								
22	0.000	4	0.0	-19.7	66.8	1038.0	-0.3	1.5
107	0.000	9	1.0	4.3	973.1	0.0	1.3	0.0
sila Z								
116	1.061	7	-9.5	0.3	-1035.8	0.0	-0.7	0.0
31	0.000	4	-10.4	-0.4	1035.9	0.0	0.8	0.0
moment Y								
116	1.061	7	-9.5	0.3	-1035.8	0.0	-0.7	0.0
29	0.000	2	-3.8	0.4	-106.5	1143.2	-6.9	3.5
sila Y								
29	0.000	2	-3.8	0.4	-106.5	1143.2	-6.9	3.5
32	0.000	4	-5.7	0.0	107.9	1096.6	7.2	0.8
moment Z								
30	0.000	4	-7.3	0.0	-961.8	1021.9	2.8	-3.0
33	0.000	4	3.4	0.0	-102.4	1142.6	-1.9	3.9

Vyhledano pro

Prurez : 1

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum	3			
sila X								
44	0.000	3	-7.1	1.4	909.0	0.0	5.3	0.0
48	0.000	4	8.2	0.6	892.1	0.0	0.6	0.0
moment X								
40	0.000	4	4.7	-0.5	349.1	0.0	-1.3	0.0
45	0.000	3	-7.1	1.4	98.9	450.4	-0.4	2.6
sila Z								
51	0.496	3	2.9	0.5	-947.5	0.0	-0.3	0.0
134	0.000	8	3.9	0.0	947.4	0.0	0.1	0.0
moment Y								
43	0.496	7	0.0	-0.5	-341.8	0.0	0.0	0.0
50	0.000	3	2.9	0.5	-117.7	570.6	-7.9	6.9
sila Y								
50	0.000	3	2.9	0.5	-117.7	570.6	-7.9	6.9
135	0.000	8	4.0	0.0	120.1	469.5	8.1	0.0
moment Z								
47	0.000	2	-2.8	1.4	-882.5	446.9	2.4	-1.2
136	0.000	8	4.0	0.0	-117.6	570.6	-7.8	6.9



Vyhledano pro

Prurez : 2

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
		kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim	2.radek = maximum					
sila X							
74 0.000	2	-4.5	-0.1	784.9	0.0	-0.2	0.0
165 0.000	8	7.9	0.0	-458.8	1541.6	0.0	0.0
moment X							
74 0.000	2	-4.5	-0.1	784.9	0.0	-0.2	0.0
171 0.000	9	-2.8	0.0	-92.5	1523.9	-0.5	0.0
sila Z							
83 2.400	4	1.7	0.0	-836.6	0.0	0.2	0.0
160 0.000	9	6.1	0.0	815.0	0.0	0.2	0.0
moment Y							
72 0.000	1	0.0	0.0	784.8	0.0	0.0	0.0
173 0.000	9	5.6	0.0	-62.4	1621.7	0.0	-0.2
sila Y							
89 0.000	4	4.9	0.0	126.2	1515.4	-0.9	0.7
170 0.000	7	4.8	0.0	126.2	1515.4	1.0	-0.6
moment Z							
170 0.000	7	4.8	0.0	126.2	1515.4	1.0	-0.6
74 2.400	4	5.4	0.0	448.0	1515.5	0.3	0.7

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
		kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim	2.radek = maximum					
sila X							
139 0.000	7	-2.3	0.0	51.1	141.6	-0.7	0.8
145 0.000	8	1.4	0.0	-145.5	141.7	0.1	0.0
moment X							
148 0.000	8	-0.5	-0.2	-165.5	157.7	2.5	-2.0
151 0.000	8	-0.8	0.2	228.6	0.0	-2.3	0.0
sila Z							
62 0.800	2	-0.8	0.1	-310.2	0.0	-3.7	0.0
65 0.000	4	0.9	0.0	310.3	0.0	3.2	0.0
moment Y							
67 0.800	4	0.9	0.0	-249.8	0.0	-1.9	0.0
61 0.800	2	-0.8	0.1	29.2	223.2	1.8	3.0
sila Y							
148 0.000	7	0.3	-0.2	-247.1	222.9	-4.0	3.2
151 0.000	9	-0.7	0.2	310.2	0.0	4.3	0.0
moment Z							
148 0.000	8	-0.5	-0.2	-165.5	157.7	2.5	-2.0
151 0.800	9	-0.7	0.2	247.1	222.9	4.3	3.4

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
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			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum				
sila X								
142 0.000	7	-1.1	0.0	-93.0	79.4	0.0	0.0	
142 0.000	8	1.1	0.0	-93.0	79.4	-0.3	0.2	
moment X								
150 0.000	7	0.2	0.0	-93.6	79.9	-0.3	0.3	
149 0.000	9	-0.4	0.0	94.3	0.0	0.4	0.0	
sila Z								
150 0.850	8	-0.7	0.0	-158.9	0.0	-0.7	0.0	
63 0.000	3	-0.9	0.0	158.9	0.0	0.7	0.0	
moment Y								
64 0.850	2	-0.9	0.0	-94.3	0.0	0.0	0.0	
63 0.850	3	-0.9	0.0	158.3	134.8	0.7	0.6	
sila Y								
64 0.000	3	-0.9	0.0	-158.3	134.8	-0.7	0.6	
149 0.000	8	-0.7	0.0	158.9	0.0	0.8	0.0	
moment Z								
150 0.000	9	-0.7	0.0	-93.6	79.9	0.4	-0.4	
149 0.850	8	-0.7	0.0	158.2	134.8	0.8	0.7	

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
		kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum			
sila X							
70 0.000	2	-2.3	0.0	94.4	0.0	0.0	0.0
86 0.000	3	1.7	0.0	94.4	0.0	0.0	0.0
moment X							
76 0.000	4	-2.0	0.0	94.4	0.0	0.0	0.0
70 0.000	3	-1.2	0.0	94.4	0.0	0.0	0.0
sila Z							
86 1.296	1	0.0	0.0	-94.4	0.0	0.0	0.0
70 0.000	1	0.0	0.0	94.4	0.0	0.0	0.0
moment Y							
70 0.000	1	0.0	0.0	94.4	0.0	0.0	0.0
70 0.648	1	0.0	0.0	0.0	30.6	0.0	0.0
sila Y							
77 0.000	2	0.0	0.0	94.4	0.0	0.0	0.0
86 0.000	4	0.5	0.0	94.4	0.0	0.0	0.0
moment Z							
77 1.296	2	0.0	0.0	-94.4	0.0	0.0	0.0
86 1.296	4	0.5	0.0	-94.4	0.0	0.0	0.0

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
		kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum			
sila X							
73 0.000	3	-0.6	0.0	186.1	0.0	0.0	0.0
75 0.000	3	2.9	0.0	153.0	0.0	0.0	0.0
moment X							



75	0.000	4	0.3	0.0	153.0	0.0	0.0	0.0
71	0.000	3	2.8	0.1	153.0	0.0	0.0	0.0
sila Z								
154	2.400	1	0.0	0.0	-186.1	0.0	0.0	0.0
154	0.000	1	0.0	0.0	186.1	0.0	0.0	0.0
moment Y								
155	2.400	1	0.0	0.0	-186.1	0.0	0.0	0.0
154	1.200	1	0.0	0.0	0.0	111.6	0.0	0.0
sila Y								
69	0.000	3	0.0	0.0	186.1	0.0	0.0	0.0
68	0.000	3	0.0	0.0	186.1	0.0	0.0	0.0
moment Z								
69	2.400	3	0.0	0.0	-186.1	0.0	0.0	0.0
68	2.400	3	0.0	0.0	-186.1	0.0	0.0	0.0

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
82	0.000	3	-15.9	0.0	37.8	172.8	0.0	0.0
78	0.000	2	5.5	-0.2	276.3	0.0	0.0	0.0
moment X								
79	0.000	3	-3.5	-0.2	58.5	69.1	0.0	0.0
85	0.000	3	-3.8	0.1	58.5	69.1	0.0	0.0
sila Z								
166	2.400	8	-15.9	0.0	-235.3	0.0	0.0	0.0
81	0.000	3	1.5	0.0	316.5	0.0	0.0	0.0
moment Y								
79	1.446	2	-11.9	-0.2	-209.0	0.0	0.0	0.0
166	0.650	8	1.5	0.0	215.1	172.8	0.0	0.0
sila Y								
168	0.000	9	5.1	0.0	276.2	0.4	-0.7	1.4
164	0.000	7	4.6	0.0	276.2	0.4	0.7	-1.4
moment Z								
164	0.000	7	4.6	0.0	276.2	0.4	0.7	-1.4
168	0.000	9	5.1	0.0	276.2	0.4	-0.7	1.4

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
10	0.000	2	-7.6	0.5	-687.1	-232.2	-4.8	1.0
10	0.000	4	2.6	0.5	-671.4	-212.8	1.4	0.2
moment X								
9	0.000	3	0.1	-0.3	-59.7	-1.7	0.0	0.0
11	0.000	2	1.4	0.5	568.2	-298.2	-1.4	0.5
sila Z								
10	0.096	2	-7.6	0.5	-687.3	-298.2	-4.8	0.5
11	0.000	2	1.4	0.5	568.2	-298.2	-1.4	0.5
moment Y								



11	0.000	2	1.4	0.5	568.2	-298.2	-1.4	0.5
11	1.096	2	1.4	0.5	566.0	323.3	-1.4	-1.0
sila Y								
10	0.000	2	-7.6	0.5	-687.1	-232.2	-4.8	1.0
10	0.000	4	2.6	0.5	-671.4	-212.8	1.4	0.2
moment Z								
11	1.096	2	1.4	0.5	566.0	323.3	-1.4	-1.0
10	0.000	2	-7.6	0.5	-687.1	-232.2	-4.8	1.0

Vyhledano pro

Prurez : 9

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
93	0.000	3	-1.0	0.3	-1590.3	-478.2	0.7	-0.1
3	0.000	3	5.5	2.0	1604.4	-1040.7	5.3	-1.4
moment X								
4	0.000	4	0.0	-0.5	641.2	-483.1	-0.2	0.5
3	0.000	3	5.5	2.0	1604.4	-1040.7	5.3	-1.4
sila Z								
93	0.346	7	1.8	0.3	-1622.0	-1042.2	-3.2	-0.4
3	0.000	4	1.5	2.0	1615.4	-1044.3	3.3	-0.7
moment Y								
3	0.000	5	0.8	2.0	1608.5	-1052.4	0.9	-0.2
92	0.000	5	0.0	-0.4	-643.3	1716.8	0.0	0.0
sila Y								
93	0.000	8	5.2	0.4	-1609.9	-481.4	-5.6	0.0
3	0.000	3	5.5	2.0	1604.4	-1040.7	5.3	-1.4
moment Z								
93	0.346	8	5.2	0.4	-1611.0	-1038.6	-5.6	-2.0
92	3.404	7	0.0	-0.4	-640.9	-482.0	0.2	0.7

Vyhledano pro

Prurez : 10

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
7	0.000	2	-6.8	0.0	1030.9	-492.8	4.5	-2.4
5	0.000	4	1.4	0.0	85.1	-0.2	0.2	0.0
moment X								
5	0.000	2	1.0	0.0	95.6	-0.2	0.6	-0.1
8	0.000	5	0.0	0.4	56.3	-113.6	0.0	0.2
sila Z								
6	0.846	2	-3.9	0.0	-950.7	-492.8	-4.9	-2.4
7	0.000	4	-6.2	0.0	1088.3	-477.5	7.7	-2.1
moment Y								
7	0.000	2	-6.8	0.0	1030.9	-492.8	4.5	-2.4
5	3.404	2	1.0	0.0	87.1	310.7	0.6	1.8
sila Y								
6	0.000	2	-3.9	0.0	-948.6	310.7	-4.9	1.8
7	0.000	4	-6.2	0.0	1088.3	-477.5	7.7	-2.1
moment Z								



7	0.000	2	-6.8	0.0	1030.9	-492.8	4.5	-2.4
6	0.000	2	-3.9	0.0	-948.6	310.7	-4.9	1.8

Vyhledano pro

Prurez : 11

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	=	minimum	2.radek	=	maximum		
síla X								
16	0.000	5	-13.7	0.0	-1339.8	3365.6	0.0	0.0
15	0.000	2	3.9	0.0	-1214.8	4165.7	0.0	-0.3
moment X								
15	0.000	4	-5.7	0.0	-1247.9	4278.2	0.0	0.4
14	0.000	8	0.0	0.0	7.3	4190.2	-0.1	0.0
síla Z								
16	2.500	5	-13.7	0.0	-1353.1	-0.6	0.0	0.0
13	0.000	5	0.0	0.0	1286.9	0.0	0.0	0.0
moment Y								
16	2.500	5	-13.7	0.0	-1353.1	-0.6	0.0	0.0
15	0.000	5	3.7	0.0	-1157.7	4414.3	0.0	0.0
síla Y								
14	0.000	7	-4.2	0.0	20.9	4256.8	-0.9	0.5
14	0.000	4	-3.5	0.0	20.9	4256.8	0.7	-0.4
moment Z								
15	0.000	7	-6.3	0.0	-1247.9	4278.2	0.1	-0.5
13	3.404	7	-0.3	0.0	1242.0	4258.8	0.2	0.5

Vyhledano pro

Prurez : 12

Sled kombinaci : 1..9

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	=	minimum	2.radek	=	maximum		
síla X								
2	0.000	2	-1.0	2.0	-1032.2	-162.2	-0.8	0.3
94	0.000	8	3.0	0.4	1027.0	-1038.6	3.3	-2.0
moment X								
95	0.000	9	0.0	-2.7	52.4	-162.8	-0.1	0.5
2	0.000	3	1.7	2.0	-1031.5	-167.0	-2.1	0.3
síla Z								
2	0.846	2	-1.0	2.0	-1034.5	-1036.4	-0.8	-0.4
94	0.000	9	-0.1	0.3	1027.8	-1034.4	1.5	-0.7
moment Y								
2	0.846	5	0.2	2.0	-1021.6	-1052.4	-0.2	-0.2
95	3.404	5	0.0	-2.7	51.1	-0.2	0.0	0.0
síla Y								
2	0.000	3	1.7	2.0	-1031.5	-167.0	-2.1	0.3
94	0.000	8	3.0	0.4	1027.0	-1038.6	3.3	-2.0
moment Z								
94	0.000	8	3.0	0.4	1027.0	-1038.6	3.3	-2.0
95	0.000	8	-0.8	-2.7	53.8	-167.7	-0.3	0.8

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..9



Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum				
sila X								
102	0.000	9	-4.6	-0.4	-641.6	2205.1	-0.5	1.8
100	0.000	9	4.9	0.2	648.8	-2.7	-0.5	0.1
moment X								
101	0.000	8	0.0	-0.4	6.4	2117.3	1.4	-0.9
100	0.000	9	4.9	0.2	648.8	-2.7	-0.5	0.1
sila Z								
102	3.404	9	-4.6	-0.4	-654.1	-0.2	-0.5	0.2
100	0.000	9	4.9	0.2	648.8	-2.7	-0.5	0.1
moment Y								
100	0.000	9	4.9	0.2	648.8	-2.7	-0.5	0.1
101	1.192	9	-0.9	-0.4	15.6	2205.1	2.9	1.8
sila Y								
100	0.000	9	4.9	0.2	648.8	-2.7	-0.5	0.1
101	0.000	9	-0.9	-0.4	20.0	2183.9	2.9	-1.6
moment Z								
100	3.404	9	4.9	0.2	636.4	2184.5	-0.5	-1.6
101	1.192	9	-0.9	-0.4	15.6	2205.1	2.9	1.8

Vyhledano pro

Prurez : 14

Sled kombinací : 1..9

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum				
sila X								
97	0.000	9	-6.8	0.0	-1030.6	-136.5	-4.6	-0.5
99	0.000	7	1.3	0.2	-76.5	275.3	-0.2	0.5
moment X								
96	0.000	5	0.0	-0.2	-47.7	63.6	0.0	0.0
99	0.000	9	0.8	0.2	-86.9	310.6	-0.4	1.3
sila Z								
97	0.346	7	-5.6	0.0	-1088.3	-477.6	-7.0	-1.9
98	0.000	9	-3.1	0.0	951.1	-493.2	4.0	-2.1
moment Y								
97	0.346	9	-6.8	0.0	-1031.5	-493.2	-4.6	-2.1
99	0.000	9	0.8	0.2	-86.9	310.6	-0.4	1.3
sila Y								
97	0.000	7	-5.6	0.0	-1087.4	-101.2	-7.0	0.5
98	0.000	9	-3.1	0.0	951.1	-493.2	4.0	-2.1
moment Z								
97	0.346	9	-6.8	0.0	-1031.5	-493.2	-4.6	-2.1
98	0.846	9	-3.1	0.0	948.8	310.4	4.0	1.3

Vyhledano pro

Prurez : 15

Sled kombinací : 1..9

Vypočtové reakce v podporách

Uzel	ZS	Px	Py	Pz	Mx	My	Mz
		kN	kN	kN	kN.m	kN.m	kN.m
1	1	0.0	0.0	-0.2	0.0	0.0	0.0



AFRI CZ s.r.o.

Modernizace teplárny Mladá Boleslav

Dokumentace pro vydání stavebního povolení

Datum: 12/2023

SO 203 – Úpravy kotelny K 80/K90 - OK

Revize 0

3	2		0.0	0.0	-9.4	0.0	0.0	0.0
	3		0.0	0.0	-93.5	0.0	0.0	0.0
	4		-0.2	0.0	-4.0	0.0	0.0	0.0
	5		-0.2	0.5	-1.0	0.0	0.0	0.0
	6		0.0	0.7	-3.4	0.0	0.0	0.0
	7		0.0	0.0	-5.9	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.0	0.0	-3.2	0.0	0.0	0.0
	10		0.0	0.0	-0.8	0.0	0.0	0.0
	11		0.0	0.0	0.2	0.0	0.0	0.0
	1		0.0	0.0	101.3	0.0	0.0	0.0
6	2		0.0	0.0	138.6	0.0	0.0	0.0
	3		0.0	0.0	2356.6	0.0	0.0	0.0
	4		-1.4	-4.2	25.1	0.0	0.0	0.0
	5		-7.4	-3.7	41.7	0.0	0.0	0.0
	6		-4.0	1.0	42.1	0.0	0.0	0.0
	7		-1.1	-0.6	33.6	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.6	0.4	18.1	0.0	0.0	0.0
	10		0.0	0.2	4.9	0.0	0.0	0.0
	11		0.0	0.2	-0.5	0.0	0.0	0.0
	1		0.0	0.0	12.7	0.0	0.0	0.0
8	2		0.0	0.0	10.0	0.0	0.0	0.0
	3		0.0	0.0	154.4	0.0	0.0	0.0
	4		-1.0	-1.2	16.9	0.0	0.0	0.0
	5		-0.2	-0.5	6.6	0.0	0.0	0.0
	6		-0.1	-1.5	-1.2	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.0	0.0	0.2	0.0	0.0	0.0
	10		0.0	0.0	-0.1	0.0	0.0	0.0
	11		0.0	0.0	-0.4	0.0	0.0	0.0
	1		0.0	0.0	62.4	0.0	0.0	0.0
10	2		0.0	0.0	89.6	0.0	0.0	0.0
	3		0.0	0.0	1744.9	0.0	0.0	0.0
	4		-9.4	2.9	84.8	0.0	0.0	0.0
	5		-4.0	0.5	98.7	0.0	0.0	0.0
	6		-10.8	0.5	82.0	0.0	0.0	0.0
	7		-1.1	0.8	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.6	-0.4	-1.6	0.0	0.0	0.0
	10		0.2	-0.2	0.7	0.0	0.0	0.0
	11		-0.5	0.4	2.8	0.0	0.0	0.0
	1		0.0	0.0	62.1	0.0	0.0	0.0
12	2		0.0	0.0	80.0	0.0	0.0	0.0
	3		0.0	0.0	993.8	0.0	0.0	0.0
	4		4.2	0.6	-8.7	0.0	0.0	0.0
	5		-1.3	0.2	7.8	0.0	0.0	0.0
	6		-5.9	0.8	40.7	0.0	0.0	0.0
	7		-13.9	0.0	121.9	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		-6.5	-0.7	41.1	0.0	0.0	0.0
	10		-0.7	-0.3	7.6	0.0	0.0	0.0
	11		3.9	-0.6	-9.4	0.0	0.0	0.0
	1		0.0	0.0	44.7	0.0	0.0	0.0
	2		0.0	0.0	83.1	0.0	0.0	0.0
	3		0.0	0.0	1066.2	0.0	0.0	0.0
	4		-9.0	3.5	61.5	0.0	0.0	0.0
	5		-4.5	4.3	19.0	0.0	0.0	0.0
	6		2.6	-1.9	3.2	0.0	0.0	0.0



65	7		0.3	-0.2	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		-0.2	0.2	0.0	0.0	0.0	0.0
	10		0.0	0.0	0.0	0.0	0.0	0.0
	11		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	101.3	0.0	0.0	0.0
	2		0.0	0.0	138.6	0.0	0.0	0.0
	3		0.0	0.0	2356.4	0.0	0.0	0.0
	4		0.5	-0.7	-0.5	0.0	0.0	0.0
	5		0.8	-1.0	4.9	0.0	0.0	0.0
	6		0.2	-0.1	18.1	0.0	0.0	0.0
67	7		-1.1	0.7	33.6	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		-3.4	0.0	42.1	0.0	0.0	0.0
	10		-8.9	2.2	41.7	0.0	0.0	0.0
	11		-2.3	3.0	25.1	0.0	0.0	0.0
	1		0.0	0.0	31.4	0.0	0.0	0.0
	2		0.0	0.0	37.3	0.0	0.0	0.0
	3		0.0	0.0	506.2	0.0	0.0	0.0
	4		0.0	0.0	0.2	0.0	0.0	0.0
	5		0.0	0.0	-0.8	0.0	0.0	0.0
	6		0.0	0.0	-3.2	0.0	0.0	0.0
69	7		0.2	0.0	-5.9	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.8	-0.5	-1.6	0.0	0.0	0.0
	10		-2.1	-1.0	9.6	0.0	0.0	0.0
	11		-5.0	-0.5	30.6	0.0	0.0	0.0
	1		0.0	0.0	62.9	0.0	0.0	0.0
	2		0.0	0.0	89.6	0.0	0.0	0.0
	3		0.0	0.0	1744.9	0.0	0.0	0.0
	4		-1.1	-0.9	2.4	0.0	0.0	0.0
	5		-0.4	-0.4	0.6	0.0	0.0	0.0
	6		0.7	0.5	-1.3	0.0	0.0	0.0
71	7		-1.0	-0.7	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		-9.8	-0.3	81.8	0.0	0.0	0.0
	10		-4.0	-1.5	98.8	0.0	0.0	0.0
	11		-8.6	-3.7	85.2	0.0	0.0	0.0
	1		0.0	0.0	38.8	0.0	0.0	0.0
	2		0.0	0.0	46.4	0.0	0.0	0.0
	3		0.0	0.0	621.0	0.0	0.0	0.0
	4		0.0	0.0	-0.3	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	6		0.0	0.0	0.2	0.0	0.0	0.0
	7		0.2	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	9		0.5	1.3	0.3	0.0	0.0	0.0
	10		-1.9	0.6	14.9	0.0	0.0	0.0
	11		-5.0	1.2	43.7	0.0	0.0	0.0

Normové deformace v uzlech

Uzel	Kombi	X	Y	Z	Rx	Ry	Rz
		mm	mm	mm	rad	rad	rad
extremy		1.radek = minimim		2.radek = maximum			
posuv X							
29	2		0.0	0.0	-5.6	-0.0017	-0.0028
60	2		0.0	0.0	-6.8	-0.0014	-0.0020
posuv Y							
83	7		0.0	0.0	-8.9	0.0005	-0.0025
30	4		0.0	0.0	-8.9	-0.0009	-0.0020



posuv Z									
14	5		0.0	0.0	-12.7		0.0000	0.0003	0.0000
66	5		0.0	0.0	0.7		0.0003	-0.0102	0.0000
rot X									
20	4		0.0	0.0	-5.2		-0.0132	-0.0078	0.0000
77	5		0.0	0.0	-5.0		0.0075	-0.0021	0.0000
rot Y									
4	4		0.0	0.0	-0.6		-0.0017	-0.0135	0.0000
67	9		0.0	0.0	0.0		-0.0004	0.0046	0.0000
rot Z									
99	8		0.0	0.0	-4.7		-0.0008	-0.0039	0.0000
43	3		0.0	0.0	-4.3		0.0000	-0.0029	0.0000

Vyhledano pro

Sled uzlu : 1..117

Sled kombinaci : 1..9

POSOUZENÍ NPRŮŘEZŮ

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	33	prurez	:	1	rez	:	0.00 [m]
1 1.00 4		-148.6			0.0			148.6
sigma max prut	:	33	prurez	:	1	rez	:	0.00 [m]
3 11.00 4		148.4			0.0			148.4
tau prut	:	107	prurez	:	1	rez	:	0.00 [m]
2 7.50 9		0.0			100.1			173.5
sigma sr. prut	:	31	prurez	:	1	rez	:	1.06 [m]
2 5.00 4		-128.5			75.8			183.7

vyuziti prurezu : 79.5 % **ISV 800/300/15/30** VYHOVI !

Vyhledano pro

Prurez : **1**

Sled kombinaci : 1..9

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	50	prurez	:	2	rez	:	0.00 [m]
1 1.00 3		-101.0			0.0			101.0
sigma max prut	:	135	prurez	:	2	rez	:	0.85 [m]
3 11.00 8		101.1			0.0			101.1
tau prut	:	51	prurez	:	2	rez	:	0.50 [m]
2 5.50 3		0.1			-110.5			191.4
sigma sr. prut	:	51	prurez	:	2	rez	:	0.50 [m]
2 5.50 3		0.1			-110.5			191.4

vyuziti prurezu : 87.7 % **ISV 650/300/15/30** VYHOVI !

Vyhledano pro

Prurez : **2**

Sled kombinaci : 1..9

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa



sigma min prut	:	170	prurez	:	3	rez	:	0.85 [m]
1 1.00 7		-204.8				0.0		204.8
sigma max prut	:	173	prurez	:	3	rez	:	0.00 [m]
3 12.00 9		204.7				0.0		204.7
tau prut	:	80	prurez	:	3	rez	:	2.40 [m]
2 7.50 2		0.1				-79.1		79.1
sigma sr. prut	:	170	prurez	:	3	rez	:	0.85 [m]
1 1.00 7		-204.8				0.0		204.8

vyuziti prurezu : 70.6 % **ISV 800/300/15/30** VYHOVI !

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	151	prurez	:	4	rez	:	0.80 [m]
1 16.00 9		-102.1				0.0		102.1
sigma max prut	:	151	prurez	:	4	rez	:	0.80 [m]
1 8.00 9		102.1				0.0		102.1
tau prut	:	148	prurez	:	4	rez	:	0.80 [m]
1 12.50 7		0.0				-81.5		141.1
sigma sr. prut	:	148	prurez	:	4	rez	:	0.80 [m]
1 12.50 7		0.0				-81.5		141.1

vyuziti prurezu : 64.7 % **HEA 400** VYHOVI !

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	149	prurez	:	5	rez	:	0.85 [m]
1 16.00 8		-154.9				0.0		154.9
sigma max prut	:	149	prurez	:	5	rez	:	0.85 [m]
1 8.00 8		153.8				0.0		153.8
tau prut	:	150	prurez	:	5	rez	:	0.85 [m]
1 12.50 8		-0.1				-62.8		62.8
sigma sr. prut	:	149	prurez	:	5	rez	:	0.85 [m]
1 16.00 8		-154.9				0.0		154.9

vyuziti prurezu : 73.8 % **IPE 360** VYHOVI !

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	70	prurez	:	6	rez	:	0.65 [m]
1 1.00 2		-94.4				0.0		94.4



sigma max prut	:	86	prurez	:	6	rez	:	0.65 [m]
1 8.00 3		94.3			0.0			94.3
tau prut	:	70	prurez	:	6	rez	:	0.00 [m]
1 12.50 3		-0.3			75.3			130.4
sigma sr. prut	:	70	prurez	:	6	rez	:	0.00 [m]
1 12.50 3		-0.3			75.3			130.4

vyuziti prurezu : 59.8 % **IPE 240** VYHOVI !

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	73	prurez	:	7	rez	:	1.20 [m]
1 1.00 3		-155.9			0.0			155.9
sigma max prut	:	68	prurez	:	7	rez	:	1.20 [m]
1 8.00 2		155.9			0.0			155.9
tau prut	:	73	prurez	:	7	rez	:	0.00 [m]
1 4.50 2		-0.0			85.0			147.2
sigma sr. prut	:	68	prurez	:	7	rez	:	1.20 [m]
1 8.00 2		155.9			0.0			155.9

vyuziti prurezu : 74.3 % **IPE 330** VYHOVI !

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	166	prurez	:	8	rez	:	0.65 [m]
1 16.00 8		-75.5			0.0			75.5
sigma max prut	:	166	prurez	:	8	rez	:	0.65 [m]
1 8.00 8		74.6			0.0			74.6
tau prut	:	81	prurez	:	8	rez	:	0.00 [m]
1 4.50 3		0.1			81.9			141.9
sigma sr. prut	:	81	prurez	:	8	rez	:	0.00 [m]
1 4.50 3		0.1			81.9			141.9

vyuziti prurezu : 65.0 % **HEA 400** VYHOVI !

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	12	prurez	:	9	rez	:	0.00 [m]
1 2.00 2		-104.2			0.0			104.2
sigma max prut	:	12	prurez	:	9	rez	:	0.00 [m]
3 12.00 2		99.8			0.0			99.8
tau prut	:	10	prurez	:	9	rez	:	0.10 [m]



2	5.50	2	-0.0	-106.4	184.3
sigma sr. prut	:	10	prurez	:	9 rez : 0.10 [m]
2	5.50	2	-0.0	-106.4	184.3

vyuziti prurezu : 84.5 % **I 380** VYHOVI !

Vyhledano pro

Prurez : 9

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	92	prurez	:	10	rez	:	0.00 [m]
1	2.00	5	-218.9			0.0		218.9
sigma max prut	:	92	prurez	:	10	rez	:	0.00 [m]
3	12.00	5	201.9			0.0		201.9
tau prut	:	93	prurez	:	10	rez	:	0.35 [m]
2	5.50	7	-0.1			-107.5		186.1
sigma sr. prut	:	92	prurez	:	10	rez	:	0.00 [m]
1	2.00	5	-218.9			0.0		218.9

vyuziti prurezu : 75.5 % **USV 500/250/15/25** VYHOVI !

Vyhledano pro

Prurez : 10

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	7	prurez	:	11	rez	:	0.00 [m]
3	11.00	2	-83.4			0.0		83.4
sigma max prut	:	6	prurez	:	11	rez	:	0.85 [m]
1	1.00	2	84.7			0.0		84.7
tau prut	:	7	prurez	:	11	rez	:	0.00 [m]
2	7.50	4	-1.0			105.2		182.3
sigma sr. prut	:	7	prurez	:	11	rez	:	0.00 [m]
2	7.50	4	-1.0			105.2		182.3

vyuziti prurezu : 83.5 % **USV 900/250/20/30** VYHOVI !

Vyhledano pro

Prurez : 11

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	13	prurez	:	12	rez	:	3.40 [m]
1	1.00	5	-256.2			0.0		256.2
sigma max prut	:	15	prurez	:	12	rez	:	0.00 [m]
3	12.00	5	254.5			0.0		254.5
tau prut	:	16	prurez	:	12	rez	:	2.50 [m]
2	7.50	5	-0.3			-76.5		76.5
sigma sr. prut	:	13	prurez	:	12	rez	:	3.40 [m]
1	1.00	5	-256.2			0.0		256.2



vyuziti prurezu : 88.4 % **USV 800/250/15/25** VYHOVI !

Vyhledano pro

Prurez : 12

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 2	prurez	: 13	rez	: 0.85 [m]
1 8.00 5	-212.0			0.0	212.0
sigma max prut	: 2	prurez	: 13	rez	: 0.85 [m]
1 16.00 5	211.4			0.0	211.4
tau prut	: 2	prurez	: 13	rez	: 0.85 [m]
1 4.50 2	-0.1			-146.8	254.3
sigma sr. prut	: 2	prurez	: 13	rez	: 0.85 [m]
1 5.00 3	-166.8			-128.7	278.5

vyuziti prurezu : 87.3 % **ISV 1000/400/20/40** VYHOVI !

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 102	prurez	: 14	rez	: 0.00 [m]
1 1.00 9	-271.9			0.0	271.9
sigma max prut	: 101	prurez	: 14	rez	: 1.19 [m]
3 11.00 9	251.7			0.0	251.7
tau prut	: 102	prurez	: 14	rez	: 3.40 [m]
2 7.50 9	-0.1			-48.0	48.0
sigma sr. prut	: 102	prurez	: 14	rez	: 0.00 [m]
1 1.00 9	-271.9			0.0	271.9

vyuziti prurezu : 93.7 % **HEB 550** VYHOVI !

Vyhledano pro

Prurez : 14

Sled kombinaci : 1..9

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 97	prurez	: 15	rez	: 0.35 [m]
3 11.00 9	-87.2			0.0	87.2
sigma max prut	: 98	prurez	: 15	rez	: 0.00 [m]
1 1.00 9	86.7			0.0	86.7
tau prut	: 97	prurez	: 15	rez	: 0.35 [m]
2 5.50 7	-0.4			-117.6	203.6
sigma sr. prut	: 97	prurez	: 15	rez	: 0.35 [m]
2 5.50 7	-0.4			-117.6	203.6

vyuziti prurezu : 93.3 % **USV 800/300/20/40** VYHOVI !



Vyhledáno pro
Průřez : 15
Sled kombinací : 1..9

2.5 NÁVRH KRUHOVÉHO ZÁSOBNÍKU NA ŠTĚPKU D = 6500 mm

NÁVRH OCELOVÉ KRUHOVÉ NÁDRŽE DR = 6500 mm

Průměr : $d = 6500$ mm
Výška : $h = 12000$ mm
Náplň : peletky $\gamma = 10$ kN/m³
Úhel vnitřního tření : $\varphi = 30$

Zatížení v příčném směru :

Hodnota normového vodorovného tlaku

$R = d/4 = 1,625$ m
 $\omega = \tan^2(45^\circ - \varphi/2) = 0,333$
 $p_h = \gamma \omega z = 40,000$ kN/m²

Hodnota zatížení od výbuchu :

$p_{h,v} = 40$ kN/m²

Zvýšená hodnota vodorovného tlaku pro hladký plášť

$p_{h1} = \alpha_1 p_h = 154,880$ kN/m²
 $h/d = 1,846$ $\alpha_1 = 1,936$

Hodnota výpočtové vodorovné normálové tahové síly na jednotku výšky stěny

součinitel zatížení : $n = 1,3$
součinitel podmínek působení : $m = 0,8$
 $n_h = n \cdot p_{h1} \cdot d / 2 \cdot m = 817,960$ kN/m

Zatížení v podélném směru :

Normová hodnota svislé normálové tlakové síly na jednotku obvodu

$n_v = R(\gamma z - p_v) = 0$ kN/m
 $p_v = p_h / \omega = 120$ kN/m²

**Návrh tloušťky stěny**Navržena tloušťka $t = 10$ mm $\sigma = n h / t = 81,80$ MPa**Posouzení stability** $r / t = 325,000$ $\rho_{p1} = 1$ $\rho_{1.Rd} = 210$ MPa $\sigma < \rho_{1.Rd} = 0,39 < 1$ **Obvodové napětí** $\sigma = p h_0 . r / t = 13,00$ MPa $\rho_1 = 0,34$

$$\rho_{1p} = \rho_1 + (\rho_{p1} - \rho_1) \left(\sigma / 2 . \rho_{p1.Rd} \right)^{0,5} = 0,456$$
 $\rho_{1p} . Rd = 95,78$ MPa $> 81,80$ MPa **VYHOVÍ****Výztužný prstenec pláště :**

pevná střecha

Nejmenší plocha průřezu patního prstence

 $F = d^2 / 43200 . \sin \alpha = 3912,037$ mm²Příslušná plocha pláště : $F_p = 2 . 16 . t = 320$ mm²Nutná plocha úhelníku : $F_u = F - F_p = 3592,037$ mm²Vyhoví úhelník **L160x160x12** $F = 3730$ mm² $> 3592,037$ mm²**PODLAHOVÝ PLECH DNA SILA** $Q = 4000$ kN $g_z = 4000 / p \times 3,25^2 = 120,54$ kNm² $b_{max} = 850$ mm $t = 0,033 \times 850^3 \sqrt{0,12054} = 13,86$ mm $t = 15$ mm



2.6 PLOŠINA +36,000 m

ZATÍŽENÍ

1. Zatěžovací stav

Vlastní tíha $\gamma = 1,35$

Generována počítačem

2. Zatěžovací stav

Zatížení stálé $\gamma = 1,35$

Podlaha z plechu POV8

$$gz1 = 0,65 \times 0,5 \times 0,8 = 0,26 \text{ kN/m}$$

$$gz2 = 0,65 \times 0,8 = 0,52 \text{ kN/m}$$

$$gz3 = 0,65 \times 0,5 \times 0,65 = 0,211 \text{ kN/m}$$

$$gz4 = 0,65 \times 0,65 = 0,423 \text{ kN/m}$$

$$gz5 = 0,65 \times 0,5 \times (0,65 + 0,75) = 0,455 \text{ kN/m}$$

$$gz6 = 0,65 \times 0,75 = 0,488 \text{ kN/m}$$

$$gz7 = 0,65 \times 0,85 = 0,553 \text{ kN/m}$$

$$gz8 = 0,65 \times 0,835 = 0,543 \text{ kN/m}$$

$$gz9 = 0,65 \times 0,5 \times (0,85 + 0,75) = 0,52 \text{ kN/m}$$

$$Pz1 = 1,4 \text{ kN}$$

$$Pz2 = 0,9 \text{ kN}$$

$$Pz3 = 3,8 \text{ kN}$$

$$Pz4 = 2,6 \text{ kN}$$

$$Px1 = 2,2 \text{ kN}$$

$$Px2 = 0,5 \text{ kN}$$

3. Zatěžovací stav

Zatížení stálé - rezerva $\gamma = 1,35$

$$gz1 = 5,0 \times 0,5 \times 0,8 = 2,0 \text{ kN/m}$$

$$gz2 = 5,0 \times 0,8 = 4,0 \text{ kN/m}$$

$$gz3 = 5,0 \times 0,5 \times 0,65 = 1,625 \text{ kN/m}$$

$$gz4 = 5,0 \times 0,65 = 3,25 \text{ kN/m}$$

$$gz5 = 5,0 \times 0,5 \times (0,65 + 0,75) = 3,5 \text{ kN/m}$$

$$gz6 = 5,0 \times 0,75 = 3,75 \text{ kN/m}$$

$$gz7 = 5,0 \times 0,85 = 4,0 \text{ kN/m}$$

$$gz8 = 5,0 \times 0,835 = 4,25 \text{ kN/m}$$

$$gz9 = 5,0 \times 0,5 \times (0,85 + 0,75) = 4,175 \text{ kN/m}$$

$$Pz1 = 6,1 \text{ kN}$$

$$Pz2 = 6,4 \text{ kN}$$

$$Pz3 = 3,5 \text{ kN}$$

$$Pz4 = 5,8 \text{ kN}$$

$$Pz5 = 4,1 \text{ kN}$$

$$Px1 = 3,2 \text{ kN}$$

$$Px2 = 0,7 \text{ kN}$$

4. Zatěžovací stav

Zatížení užitné $\gamma = 1,5$

$$p = 10,0 \text{ kN/m}^2$$

$$gz1 = 10,0 \times 0,5 \times 0,8 = 4,0 \text{ kN/m}$$

$$gz2 = 10,0 \times 0,8 = 8,0 \text{ kN/m}$$

$$gz3 = 10,0 \times 0,5 \times 0,65 = 3,25 \text{ kN/m}$$

$$gz4 = 10,0 \times 0,65 = 6,5 \text{ kN/m}$$

$$gz5 = 10,0 \times 0,5 \times (0,65 + 0,75) = 7,0 \text{ kN/m}$$

$$gz6 = 10,0 \times 0,75 = 7,5 \text{ kN/m}$$

$$gz7 = 10,0 \times 0,85 = 8,5 \text{ kN/m}$$

$$gz8 = 10,0 \times 0,835 = 8,35 \text{ kN/m}$$

$$gz9 = 10,0 \times 0,5 \times (0,85 + 0,75) = 8,0 \text{ kN/m}$$



$P_{z1} = 12,2 \text{ kN}$
 $P_{z2} = 12,9 \text{ kN}$
 $P_{z3} = 7,0 \text{ kN}$
 $P_{z4} = 5,8 \text{ kN}$
 $P_{z5} = 3,0 \text{ kN}$
 $P_{x1} = 3,2 \text{ kN}$
 $P_{x2} = 0,7 \text{ kN}$

5. Zatěžovací stav

Zatížení technologií $\gamma = 1,5$

$Q = 180,0 \text{ kN}$

$g_{z1} = 180,0 / 2 \times (42 + 2 \times 2,3) = 2,4 \text{ kN/m}$

$P_{z1} = 4,0 \text{ kN}$

TVAR KONSTRUKCE

U Z L Y

uzel	X[m]	Y[m]	Z[m]	typ
1	0.0000	0.0000	0.0000	
2	0.0000	2.0000	0.0000	
3	0.0000	2.6500	0.0000	
4	0.0000	3.3000	0.0000	
5	0.0000	3.9500	0.0000	
6	0.0000	4.7000	0.0000	
7	0.0000	5.4500	0.0000	
8	0.0000	6.2000	0.0000	
9	0.0000	6.9500	0.0000	
10	0.0000	7.7000	0.0000	
11	0.0000	8.4500	0.0000	
12	0.0000	9.2000	0.0000	
13	0.0000	9.9500	0.0000	
14	0.0000	10.7000	0.0000	
15	0.0000	11.4500	0.0000	
16	0.0000	12.3000	0.0000	
17	0.0000	13.1500	0.0000	
18	0.0000	14.0000	0.0000	
19	0.0000	14.8500	0.0000	
20	0.0000	15.7000	0.0000	
21	0.0000	16.5250	0.0000	
22	0.0000	17.3600	0.0000	
23	0.0000	18.1950	0.0000	
24	0.0000	19.0300	0.0000	
25	0.0000	19.8650	0.0000	
26	0.0000	20.7000	0.0000	
27	0.0000	21.5350	0.0000	
28	0.0000	22.3700	0.0000	
29	0.0000	23.2050	0.0000	
30	0.0000	24.0400	0.0000	
31	0.0000	24.8750	0.0000	
32	0.0000	25.7000	0.0000	
33	1.9400	2.0000	0.0000	
34	1.9400	2.6500	0.0000	
35	1.9400	3.3000	0.0000	
36	1.9400	3.9500	0.0000	
37	1.9400	4.7000	0.0000	
38	1.9400	5.4500	0.0000	
39	1.9400	6.2000	0.0000	
40	1.9400	6.9500	0.0000	



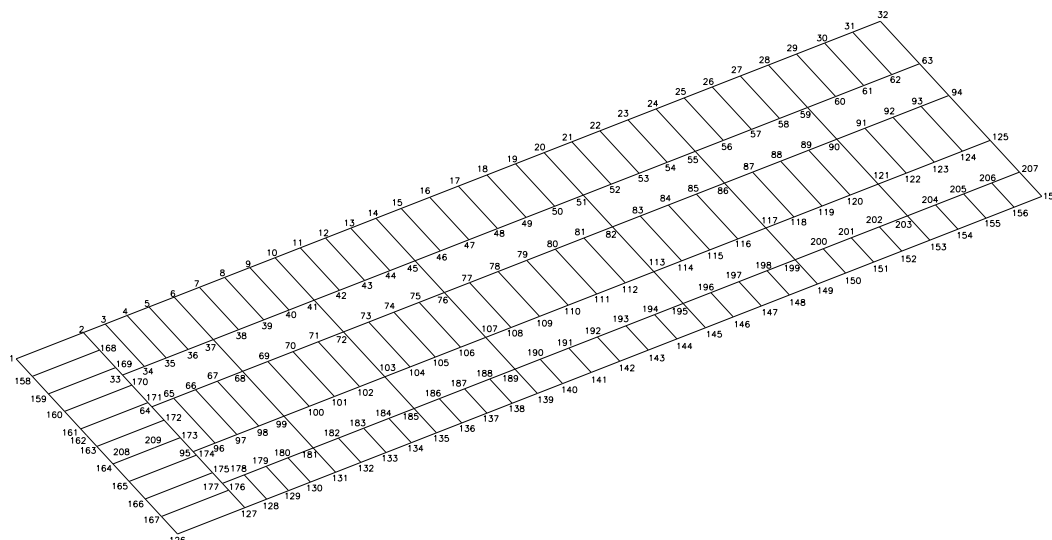
41	1.9400	7.7000	0.0000
42	1.9400	8.4500	0.0000
43	1.9400	9.2000	0.0000
44	1.9400	9.9500	0.0000
45	1.9400	10.7000	0.0000
46	1.9400	11.4500	0.0000
47	1.9400	12.3000	0.0000
48	1.9400	13.1500	0.0000
49	1.9400	14.0000	0.0000
50	1.9400	14.8500	0.0000
51	1.9400	15.7000	0.0000
52	1.9400	16.5250	0.0000
53	1.9400	17.3600	0.0000
54	1.9400	18.1950	0.0000
55	1.9400	19.0300	0.0000
56	1.9400	19.8650	0.0000
57	1.9400	20.7000	0.0000
58	1.9400	21.5350	0.0000
59	1.9400	22.3700	0.0000
60	1.9400	23.2050	0.0000
61	1.9400	24.0400	0.0000
62	1.9400	24.8750	0.0000
63	1.9400	25.7000	0.0000
64	3.3900	2.0000	0.0000
65	3.3900	2.6500	0.0000
66	3.3900	3.3000	0.0000
67	3.3900	3.9500	0.0000
68	3.3900	4.7000	0.0000
69	3.3900	5.4500	0.0000
70	3.3900	6.2000	0.0000
71	3.3900	6.9500	0.0000
72	3.3900	7.7000	0.0000
73	3.3900	8.4500	0.0000
74	3.3900	9.2000	0.0000
75	3.3900	9.9500	0.0000
76	3.3900	10.7000	0.0000
77	3.3900	11.4500	0.0000
78	3.3900	12.3000	0.0000
79	3.3900	13.1500	0.0000
80	3.3900	14.0000	0.0000
81	3.3900	14.8500	0.0000
82	3.3900	15.7000	0.0000
83	3.3900	16.5250	0.0000
84	3.3900	17.3600	0.0000
85	3.3900	18.1950	0.0000
86	3.3900	19.0300	0.0000
87	3.3900	19.8650	0.0000
88	3.3900	20.7000	0.0000
89	3.3900	21.5350	0.0000
90	3.3900	22.3700	0.0000
91	3.3900	23.2050	0.0000
92	3.3900	24.0400	0.0000
93	3.3900	24.8750	0.0000
94	3.3900	25.7000	0.0000
95	5.4400	2.0000	0.0000
96	5.4400	2.6500	0.0000
97	5.4400	3.3000	0.0000
98	5.4400	3.9500	0.0000
99	5.4400	4.7000	0.0000
100	5.4400	5.4500	0.0000



101	5.4400	6.2000	0.0000
102	5.4400	6.9500	0.0000
103	5.4400	7.7000	0.0000
104	5.4400	8.4500	0.0000
105	5.4400	9.2000	0.0000
106	5.4400	9.9500	0.0000
107	5.4400	10.7000	0.0000
108	5.4400	11.4500	0.0000
109	5.4400	12.3000	0.0000
110	5.4400	13.1500	0.0000
111	5.4400	14.0000	0.0000
112	5.4400	14.8500	0.0000
113	5.4400	15.7000	0.0000
114	5.4400	16.5250	0.0000
115	5.4400	17.3600	0.0000
116	5.4400	18.1950	0.0000
117	5.4400	19.0300	0.0000
118	5.4400	19.8650	0.0000
119	5.4400	20.7000	0.0000
120	5.4400	21.5350	0.0000
121	5.4400	22.3700	0.0000
122	5.4400	23.2050	0.0000
123	5.4400	24.0400	0.0000
124	5.4400	24.8750	0.0000
125	5.4400	25.7000	0.0000
126	8.0000	0.0000	0.0000
127	8.0000	2.0000	0.0000
128	8.0000	2.6500	0.0000
129	8.0000	3.3000	0.0000
130	8.0000	3.9500	0.0000
131	8.0000	4.7000	0.0000
132	8.0000	5.4500	0.0000
133	8.0000	6.2000	0.0000
134	8.0000	6.9500	0.0000
135	8.0000	7.7000	0.0000
136	8.0000	8.4500	0.0000
137	8.0000	9.2000	0.0000
138	8.0000	9.9500	0.0000
139	8.0000	10.7000	0.0000
140	8.0000	11.4500	0.0000
141	8.0000	12.3000	0.0000
142	8.0000	13.1500	0.0000
143	8.0000	14.0000	0.0000
144	8.0000	14.8500	0.0000
145	8.0000	15.7000	0.0000
146	8.0000	16.5250	0.0000
147	8.0000	17.3600	0.0000
148	8.0000	18.1950	0.0000
149	8.0000	19.0300	0.0000
150	8.0000	19.8650	0.0000
151	8.0000	20.7000	0.0000
152	8.0000	21.5350	0.0000
153	8.0000	22.3700	0.0000
154	8.0000	23.2050	0.0000
155	8.0000	24.0400	0.0000
156	8.0000	24.8750	0.0000
157	8.0000	25.7000	0.0000
158	0.8000	0.0000	0.0000
159	1.6000	0.0000	0.0000
160	2.4000	0.0000	0.0000



161	3.2000	0.0000	0.0000
162	3.5000	0.0000	0.0000
163	4.0000	0.0000	0.0000
164	4.8000	0.0000	0.0000
165	5.6000	0.0000	0.0000
166	6.4000	0.0000	0.0000
167	7.2000	0.0000	0.0000
168	0.8000	2.0000	0.0000
169	1.6000	2.0000	0.0000
170	2.4000	2.0000	0.0000
171	3.2000	2.0000	0.0000
172	4.0000	2.0000	0.0000
173	4.8000	2.0000	0.0000
174	5.6000	2.0000	0.0000
175	6.4000	2.0000	0.0000
176	7.2000	2.0000	0.0000
177	6.8900	2.0000	0.0000
178	6.8900	2.6500	0.0000
179	6.8900	3.3000	0.0000
180	6.8900	3.9500	0.0000
181	6.8900	4.7000	0.0000
182	6.8900	5.4500	0.0000
183	6.8900	6.2000	0.0000
184	6.8900	6.9500	0.0000
185	6.8900	7.7000	0.0000
186	6.8900	8.4500	0.0000
187	6.8900	9.2000	0.0000
188	6.8900	9.9500	0.0000
189	6.8900	10.7000	0.0000
190	6.8900	11.4500	0.0000
191	6.8900	12.3000	0.0000
192	6.8900	13.1500	0.0000
193	6.8900	14.0000	0.0000
194	6.8900	14.8500	0.0000
195	6.8900	15.7000	0.0000
196	6.8900	16.5250	0.0000
197	6.8900	17.3600	0.0000
198	6.8900	18.1950	0.0000
199	6.8900	19.0300	0.0000
200	6.8900	19.8650	0.0000
201	6.8900	20.7000	0.0000
202	6.8900	21.5350	0.0000
203	6.8900	22.3700	0.0000
204	6.8900	23.2050	0.0000
205	6.8900	24.0400	0.0000
206	6.8900	24.8750	0.0000
207	6.8900	25.7000	0.0000
208	4.8000	0.3300	0.0000
209	4.8000	1.2300	0.0000



P R U T Y					
prut	zac	konec	delka[m]	prurez	typ
1	1	2	2.0000	10	
2	2	3	0.6500	10	
3	3	4	0.6500	10	
4	4	5	0.6500	10	
5	5	6	0.7500	11	
6	6	7	0.7500	11	
7	7	8	0.7500	11	
8	8	9	0.7500	11	
9	9	10	0.7500	11	
10	10	11	0.7500	11	
11	11	12	0.7500	11	
12	12	13	0.7500	11	
13	13	14	0.7500	11	
14	14	15	0.7500	11	
15	15	16	0.8500	12	
16	16	17	0.8500	12	
17	17	18	0.8500	12	
18	18	19	0.8500	12	
19	19	20	0.8500	12	
20	20	21	0.8250	9	
21	21	22	0.8350	9	
22	22	23	0.8350	9	
23	23	24	0.8350	9	
24	24	25	0.8350	9	
25	25	26	0.8350	9	
26	26	27	0.8350	9	
27	27	28	0.8350	9	
28	28	29	0.8350	9	
29	29	30	0.8350	9	
30	30	31	0.8350	9	
31	31	32	0.8250	9	
32	33	34	0.6500	4	
33	34	35	0.6500	4	
34	35	36	0.6500	4	
35	36	37	0.7500	4	
36	37	38	0.7500	4	
37	38	39	0.7500	4	
38	39	40	0.7500	4	



39	40	41	0.7500	4
40	41	42	0.7500	4
41	42	43	0.7500	4
42	43	44	0.7500	4
43	44	45	0.7500	4
44	45	46	0.7500	7
45	46	47	0.8500	7
46	47	48	0.8500	7
47	48	49	0.8500	7
48	49	50	0.8500	7
49	50	51	0.8500	7
50	51	52	0.8250	4
51	52	53	0.8350	4
52	53	54	0.8350	4
53	54	55	0.8350	4
54	55	56	0.8350	4
55	56	57	0.8350	4
56	57	58	0.8350	4
57	58	59	0.8350	4
58	59	60	0.8350	4
59	60	61	0.8350	4
60	61	62	0.8350	4
61	62	63	0.8250	4
62	64	65	0.6500	4
63	65	66	0.6500	4
64	66	67	0.6500	4
65	67	68	0.7500	4
66	68	69	0.7500	4
67	69	70	0.7500	4
68	70	71	0.7500	4
69	71	72	0.7500	4
70	72	73	0.7500	4
71	73	74	0.7500	4
72	74	75	0.7500	4
73	75	76	0.7500	4
74	76	77	0.7500	7
75	77	78	0.8500	7
76	78	79	0.8500	7
77	79	80	0.8500	7
78	80	81	0.8500	7
79	81	82	0.8500	7
80	82	83	0.8250	4
81	83	84	0.8350	4
82	84	85	0.8350	4
83	85	86	0.8350	4
84	86	87	0.8350	4
85	87	88	0.8350	4
86	88	89	0.8350	4
87	89	90	0.8350	4
88	90	91	0.8350	4
89	91	92	0.8350	4
90	92	93	0.8350	4
91	93	94	0.8250	4
92	95	96	0.6500	4
93	96	97	0.6500	4
94	97	98	0.6500	4
95	98	99	0.7500	4
96	99	100	0.7500	4
97	100	101	0.7500	4
98	101	102	0.7500	4



99	102	103	0.7500	4
100	103	104	0.7500	4
101	104	105	0.7500	4
102	105	106	0.7500	4
103	106	107	0.7500	4
104	107	108	0.7500	7
105	108	109	0.8500	7
106	109	110	0.8500	7
107	110	111	0.8500	7
108	111	112	0.8500	7
109	112	113	0.8500	7
110	113	114	0.8250	4
111	114	115	0.8350	4
112	115	116	0.8350	4
113	116	117	0.8350	4
114	117	118	0.8350	4
115	118	119	0.8350	4
116	119	120	0.8350	4
117	120	121	0.8350	4
118	121	122	0.8350	4
119	122	123	0.8350	4
120	123	124	0.8350	4
121	124	125	0.8250	4
122	177	178	0.6500	14
123	178	179	0.6500	14
124	179	180	0.6500	14
125	180	181	0.7500	14
126	181	182	0.7500	14
127	182	183	0.7500	14
128	183	184	0.7500	14
129	184	185	0.7500	14
130	185	186	0.7500	14
131	186	187	0.7500	14
132	187	188	0.7500	14
133	188	189	0.7500	14
134	189	190	0.7500	18
135	190	191	0.8500	18
136	191	192	0.8500	18
137	192	193	0.8500	18
138	193	194	0.8500	18
139	194	195	0.8500	18
140	195	196	0.8250	14
141	196	197	0.8350	14
142	197	198	0.8350	14
143	198	199	0.8350	14
144	199	200	0.8350	14
145	200	201	0.8350	14
146	201	202	0.8350	14
147	202	203	0.8350	14
148	203	204	0.8350	14
149	204	205	0.8350	14
150	205	206	0.8350	14
151	206	207	0.8250	14
152	126	127	2.0000	10
153	127	128	0.6500	10
154	128	129	0.6500	10
155	129	130	0.6500	10
156	130	131	0.7500	13
157	131	132	0.7500	13
158	132	133	0.7500	13



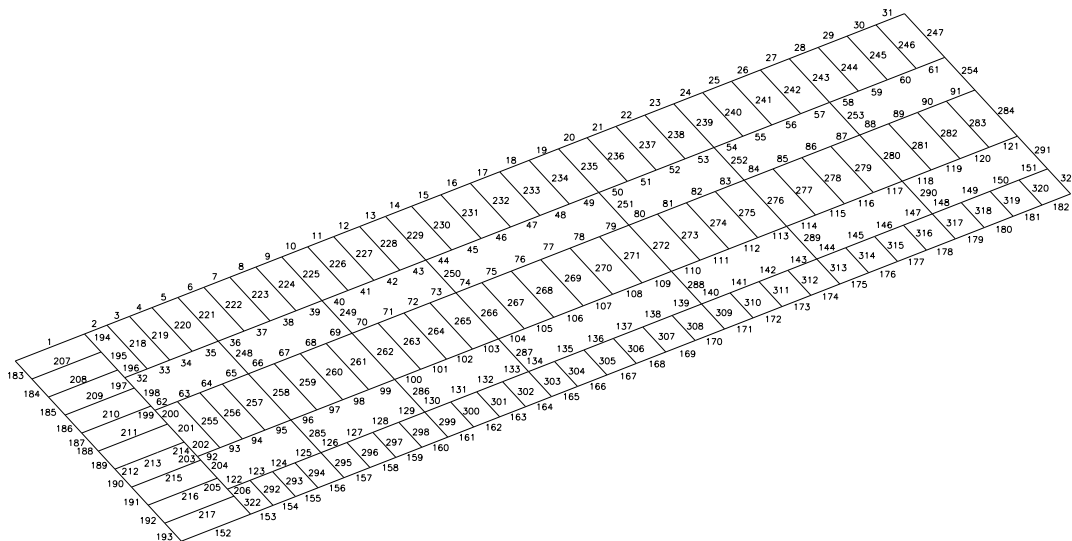
159	133	134	0.7500	13
160	134	135	0.7500	13
161	135	136	0.7500	13
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163	137	138	0.7500	13
164	138	139	0.7500	13
165	139	140	0.7500	13
166	140	141	0.8500	12
167	141	142	0.8500	12
168	142	143	0.8500	12
169	143	144	0.8500	12
170	144	145	0.8500	12
171	145	146	0.8250	8
172	146	147	0.8350	8
173	147	148	0.8350	8
174	148	149	0.8350	8
175	149	150	0.8350	8
176	150	151	0.8350	8
177	151	152	0.8350	8
178	152	153	0.8350	8
179	153	154	0.8350	8
180	154	155	0.8350	8
181	155	156	0.8350	8
182	156	157	0.8250	8
183	1	158	0.8000	17
184	158	159	0.8000	17
185	159	160	0.8000	17
186	160	161	0.8000	17
187	161	162	0.3000	17
188	162	163	0.5000	17
189	163	164	0.8000	17
190	164	165	0.8000	17
191	165	166	0.8000	17
192	166	167	0.8000	17
193	167	126	0.8000	17
194	2	168	0.8000	1
195	168	169	0.8000	1
196	169	33	0.3400	1
197	33	170	0.4600	1
198	170	171	0.8000	1
199	171	64	0.1900	1
200	64	172	0.6100	1
201	172	173	0.8000	1
202	173	95	0.6400	1
203	95	174	0.1600	1
204	174	175	0.8000	1
205	175	177	0.4900	1
206	177	176	0.3100	1
207	158	168	2.0000	16
208	159	169	2.0000	16
209	160	170	2.0000	16
210	161	171	2.0000	16
211	163	172	2.0000	16
212	164	208	0.3300	6
213	208	209	0.9000	6
214	209	173	0.7700	6
215	165	174	2.0000	16
216	166	175	2.0000	16
217	167	176	2.0000	16
218	3	34	1.9400	15



219	4	35	1.9400	15
220	5	36	1.9400	15
221	6	37	1.9400	2
222	7	38	1.9400	15
223	8	39	1.9400	15
224	9	40	1.9400	15
225	10	41	1.9400	2
226	11	42	1.9400	15
227	12	43	1.9400	15
228	13	44	1.9400	15
229	14	45	1.9400	3
230	15	46	1.9400	15
231	16	47	1.9400	15
232	17	48	1.9400	15
233	18	49	1.9400	15
234	19	50	1.9400	15
235	20	51	1.9400	19
236	21	52	1.9400	15
237	22	53	1.9400	15
238	23	54	1.9400	15
239	24	55	1.9400	2
240	25	56	1.9400	15
241	26	57	1.9400	15
242	27	58	1.9400	15
243	28	59	1.9400	2
244	29	60	1.9400	15
245	30	61	1.9400	15
246	31	62	1.9400	15
247	32	63	1.9400	19
248	37	68	1.4500	2
249	41	72	1.4500	2
250	45	76	1.4500	3
251	51	82	1.4500	19
252	55	86	1.4500	2
253	59	90	1.4500	2
254	63	94	1.4500	19
255	65	96	2.0500	15
256	66	97	2.0500	15
257	67	98	2.0500	15
258	68	99	2.0500	2
259	69	100	2.0500	15
260	70	101	2.0500	15
261	71	102	2.0500	15
262	72	103	2.0500	2
263	73	104	2.0500	15
264	74	105	2.0500	15
265	75	106	2.0500	15
266	76	107	2.0500	3
267	77	108	2.0500	15
268	78	109	2.0500	15
269	79	110	2.0500	15
270	80	111	2.0500	15
271	81	112	2.0500	15
272	82	113	2.0500	19
273	83	114	2.0500	15
274	84	115	2.0500	15
275	85	116	2.0500	15
276	86	117	2.0500	2
277	87	118	2.0500	15
278	88	119	2.0500	15



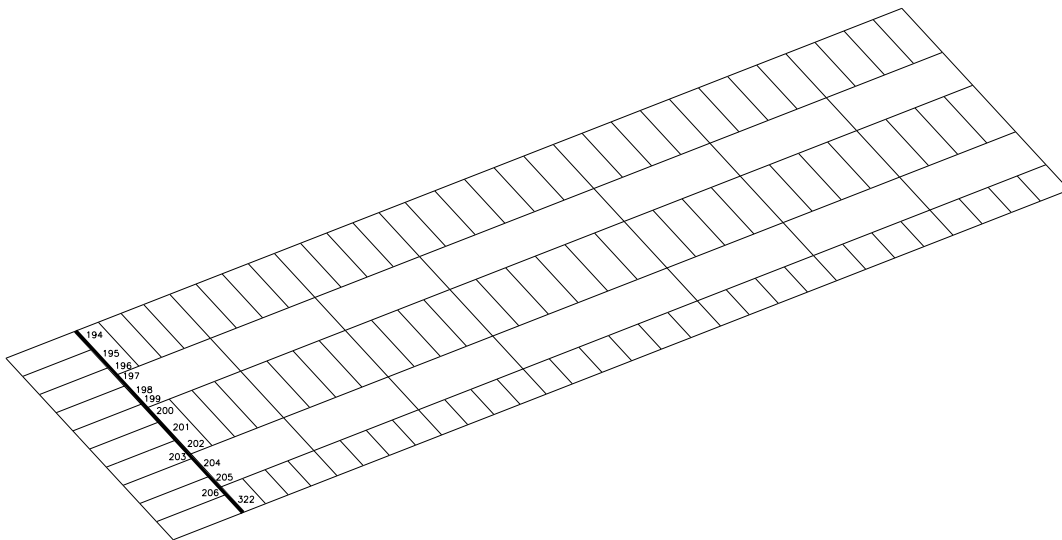
279	89	120	2.0500	15
280	90	121	2.0500	2
281	91	122	2.0500	15
282	92	123	2.0500	15
283	93	124	2.0500	15
284	94	125	2.0500	19
285	99	181	1.4500	2
286	103	185	1.4500	2
287	107	189	1.4500	3
288	113	195	1.4500	19
289	117	199	1.4500	2
290	121	203	1.4500	2
291	125	207	1.4500	19
292	178	128	1.1100	5
293	179	129	1.1100	5
294	180	130	1.1100	5
295	181	131	1.1100	2
296	182	132	1.1100	5
297	183	133	1.1100	5
298	184	134	1.1100	5
299	185	135	1.1100	2
300	186	136	1.1100	5
301	187	137	1.1100	5
302	188	138	1.1100	5
303	189	139	1.1100	3
304	190	140	1.1100	5
305	191	141	1.1100	5
306	192	142	1.1100	5
307	193	143	1.1100	5
308	194	144	1.1100	5
309	195	145	1.1100	19
310	196	146	1.1100	5
311	197	147	1.1100	5
312	198	148	1.1100	5
313	199	149	1.1100	2
314	200	150	1.1100	5
315	201	151	1.1100	5
316	202	152	1.1100	5
317	203	153	1.1100	2
318	204	154	1.1100	5
319	205	155	1.1100	5
320	206	156	1.1100	5
321	207	157	1.1100	19
322	176	127	0.8000	1



P R U R E Z Y - charakteristiky

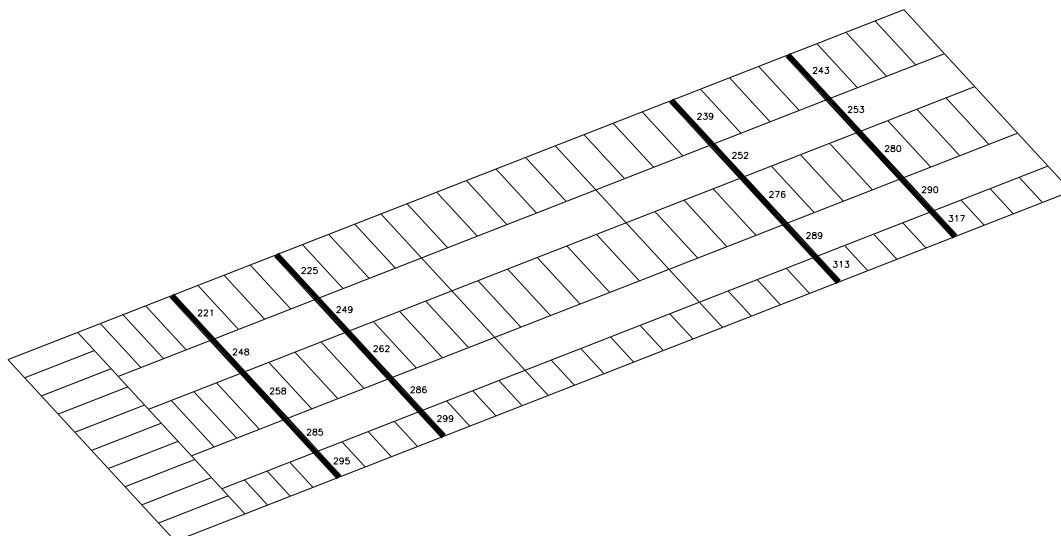
PRUREZ c. 1 (IPE)
plocha A[m2] = 1.15875E-02
mom.setr. Iy[m4] = 4.83796E-04
mom.setr. Iw[m8] = 1.24937E-06
Prvek 1 IPE 500
poloha teziste Y = 100.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 8.95999E-07
mom.setr. Iz[m4] = 2.14241E-05
ocel 37
Z = -250.00



PRUREZ c. 2 (IPE)
plocha A[m2] = 1.34362E-02
mom.setr. Iy[m4] = 6.72887E-04
mom.setr. Iw[m8] = 1.88410E-06
Prvek 1 IPE 550
poloha teziste Y = 105.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.22999E-06
mom.setr. Iz[m4] = 2.66856E-05
ocel 37
Z = -275.00



PRUREZ c. 3 (IPE)

plocha A[m2] = 1.56446E-02

mom.setr. Iy[m4] = 9.24257E-04

mom.setr. Iw[m8] = 2.84553E-06

Prvek 1 IPE 600

poloha teziste Y = 110.00

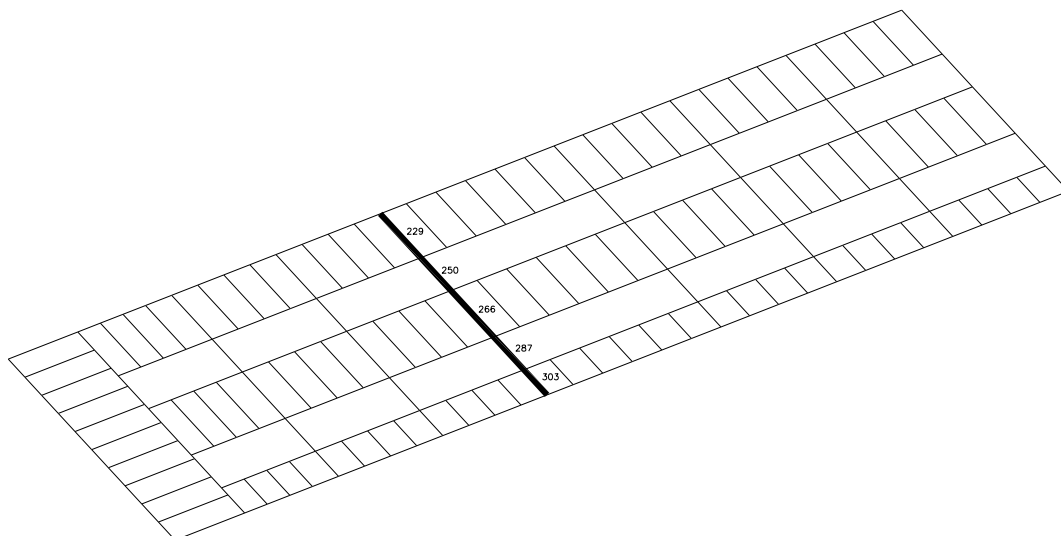
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.65999E-06

mom.setr. Iz[m4] = 3.38860E-05

ocel 37

Z = -300.0



PRUREZ c. 4 (IPE)

plocha A[m2] = 3.34859E-03

mom.setr. Iy[m4] = 2.78258E-05

mom.setr. Iw[m8] = 2.26723E-08

Prvek 1 IPE 220

poloha teziste Y = 55.00

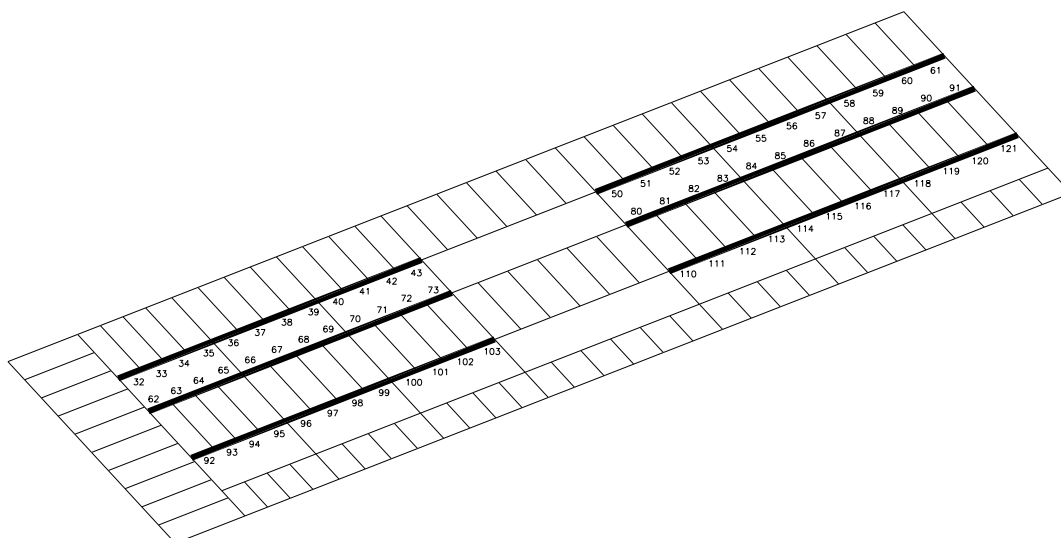
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 9.16999E-08

mom.setr. Iz[m4] = 2.04964E-06

ocel 37

Z = -110.00



PRUREZ c. 5 (IPE)

plocha A[m2] = 1.03625E-03

mom.setr. Iy[m4] = 1.71698E-06

mom.setr. Iw[m8] = 3.51378E-10

Prvek 1 IPE 100

poloha teziste Y = 27.50

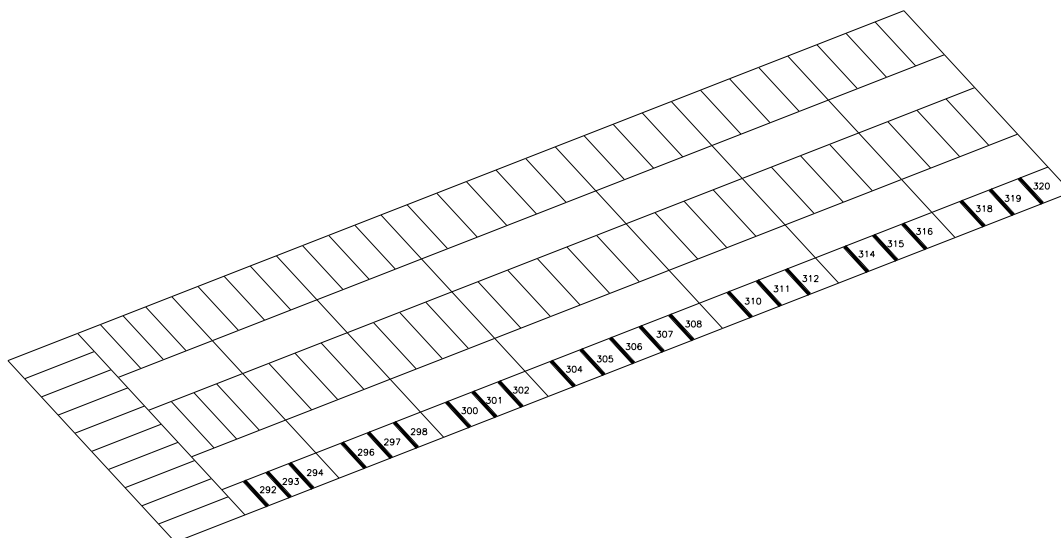
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.15999E-08

mom.setr. Iz[m4] = 1.59288E-07

ocel 37

Z = -50.00



PRUREZ c. 6 (IPE)

plocha A[m2] = 2.85995E-03

mom.setr. Iy[m4] = 1.95194E-05

mom.setr. Iw[m8] = 1.29881E-08

Prvek 1 IPE 200

poloha teziste Y = 50.00

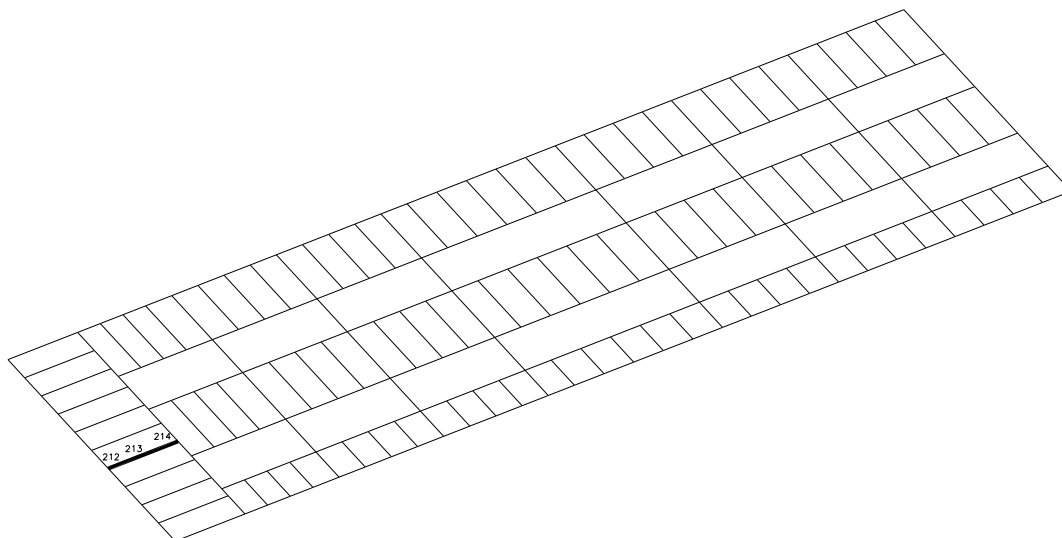
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 6.98000E-08

mom.setr. Iz[m4] = 1.42443E-06

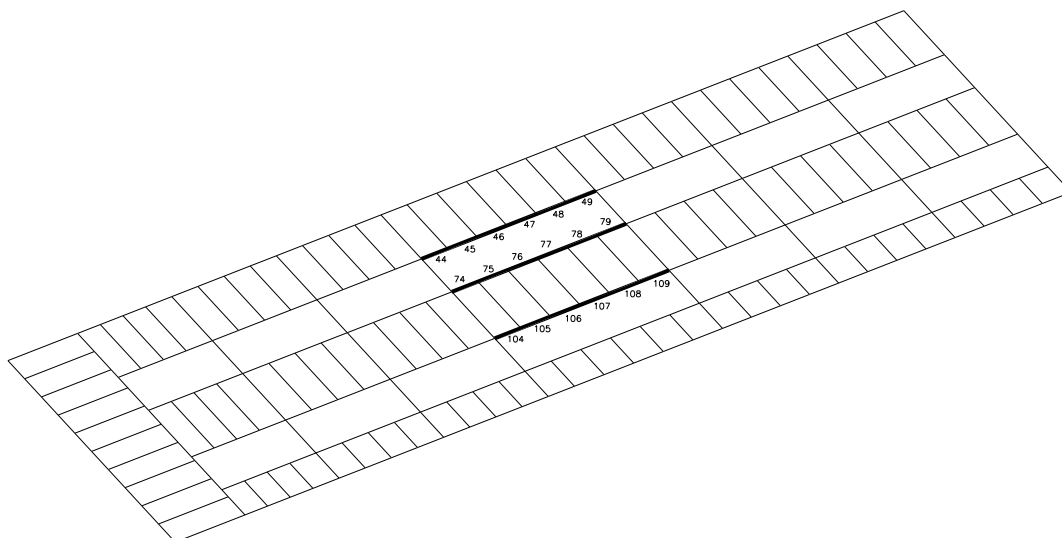
ocel 37

Z = -100.00



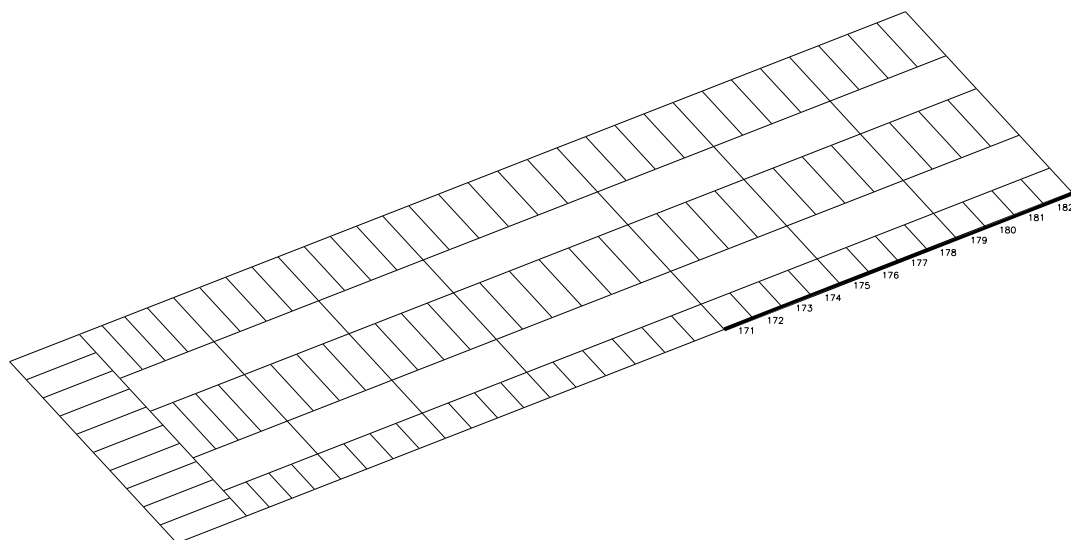
PRUREZ c. 7 (IPE)
plocha A[m2] = 5.39923E-03
mom.setr. Iy[m4] = 8.38842E-05
mom.setr. Iw[m8] = 1.25934E-07
Prvek 1 IPE 300
poloha teziste Y = 75.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 2.01000E-07
mom.setr. Iz[m4] = 6.03963E-06
ocel 37
Z = -150.00



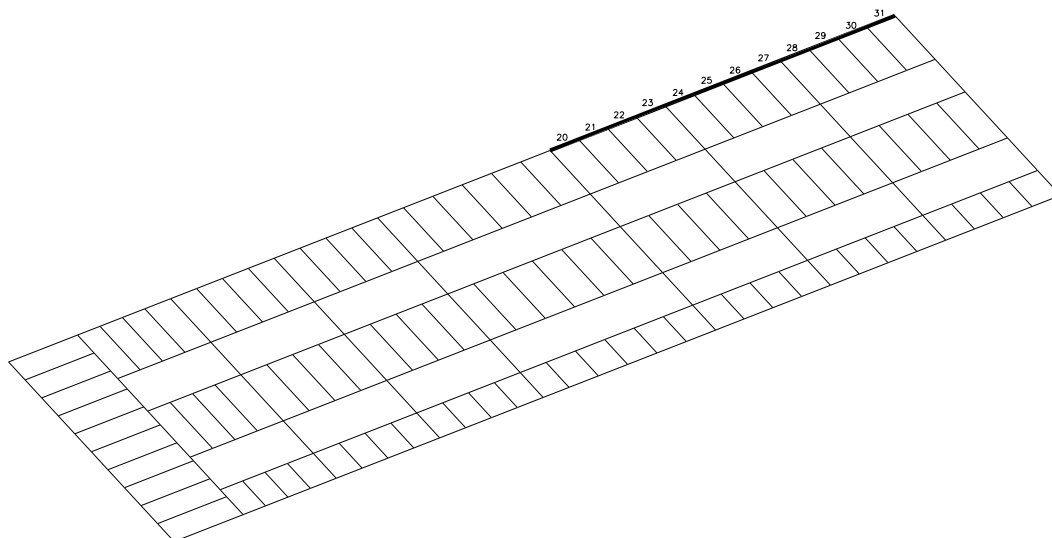
PRUREZ c. 8 (I svar)
plocha A[m2] = 2.28000E-02
mom.setr. Iy[m4] = 1.98400E-03
mom.setr. Iw[m8] = 1.28145E-05
Prvek 1 P 25.300
Prvek 2 P 12.650
Prvek 3 P 25.300
poloha teziste Y = 150.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 4.36507E-06
mom.setr. Iz[m4] = 1.12594E-04
ocel 37
ocel 37
ocel 37
Z = -350.00



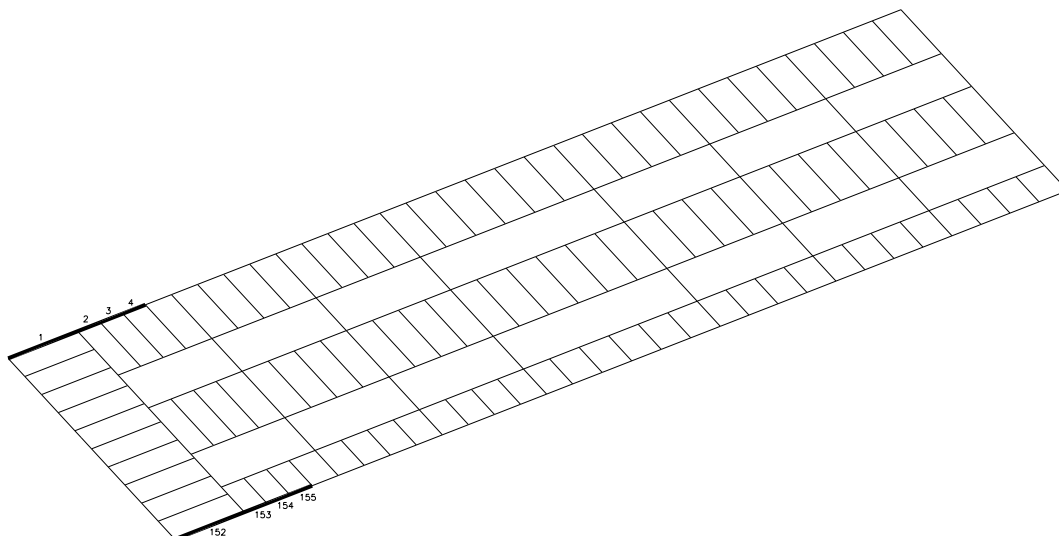
PRUREZ c. 9 (I svar)
plocha A[m2] = 2.20000E-02
mom.setr. Iy[m4] = 2.25771E-03
mom.setr. Iw[m8] = 1.47832E-05
Prvek 1 P 25.300
Prvek 2 P 10.700
Prvek 3 P 25.300
poloha teziste Y = 150.00 Z = -375.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 4.18323E-06
mom.setr. Iz[m4] = 1.12558E-04
ocel 37
ocel 37
ocel 37



PRUREZ c. 10 (IPE)
plocha A[m2] = 1.15875E-02
mom.setr. Iy[m4] = 4.83796E-04
mom.setr. Iw[m8] = 1.24937E-06
Prvek 1 IPE 500
poloha teziste Y = 100.00 Z = -250.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 8.95999E-07
mom.setr. Iz[m4] = 2.14241E-05
ocel 37



PRUREZ c. 11 (IPE)

plocha A[m2] = 1.34362E-02

mom.setr. Iy[m4] = 6.72887E-04

mom.setr. Iw[m8] = 1.88410E-06

Prvek 1 IPE 550

poloha teziste Y = 105.00

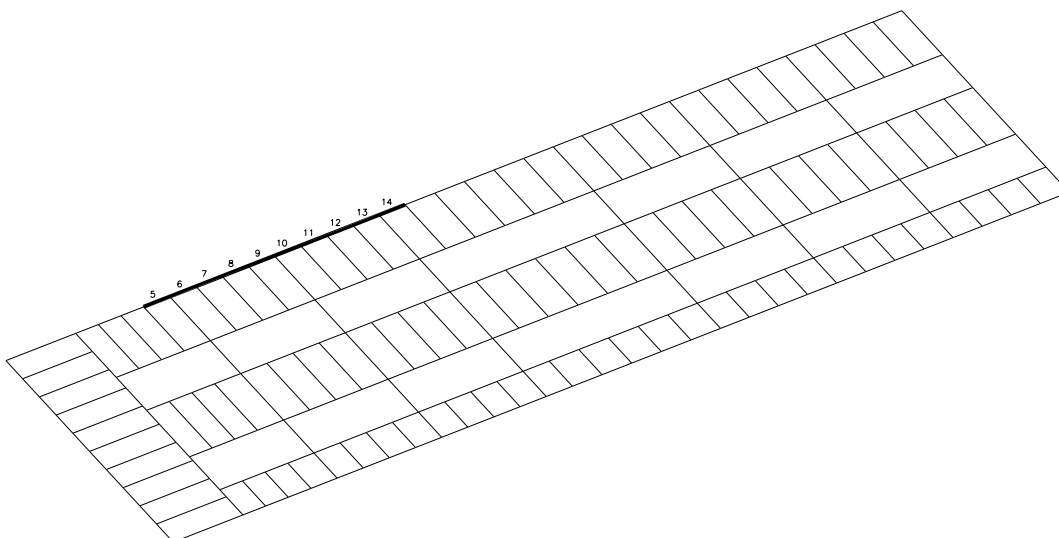
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.22999E-06

mom.setr. Iz[m4] = 2.66856E-05

ocel 37

Z = -275.00



PRUREZ c. 12 (IPE)

plocha A[m2] = 5.39923E-03

mom.setr. Iy[m4] = 8.38842E-05

mom.setr. Iw[m8] = 1.25934E-07

Prvek 1 IPE 300

poloha teziste Y = 75.00

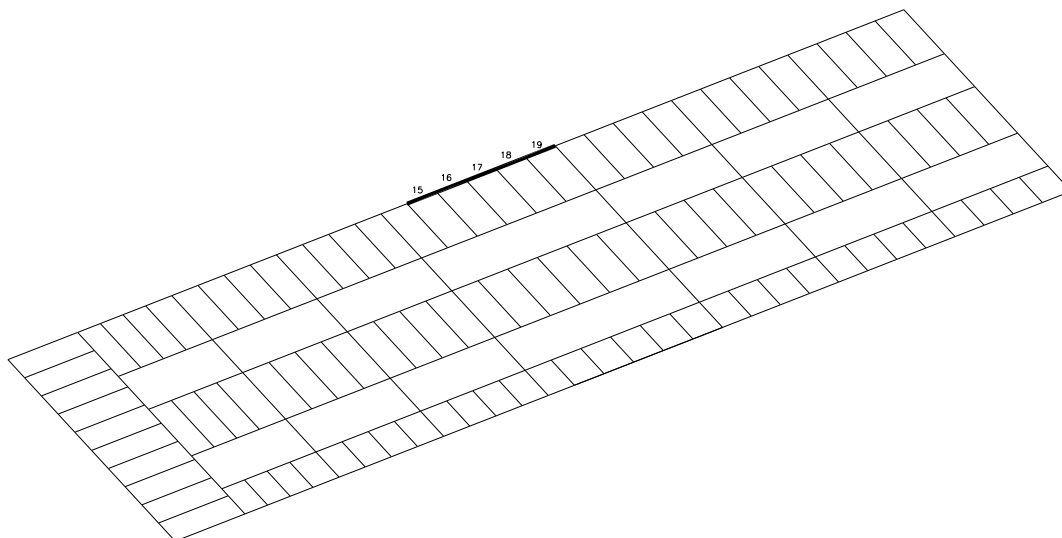
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.01000E-07

mom.setr. Iz[m4] = 6.03963E-06

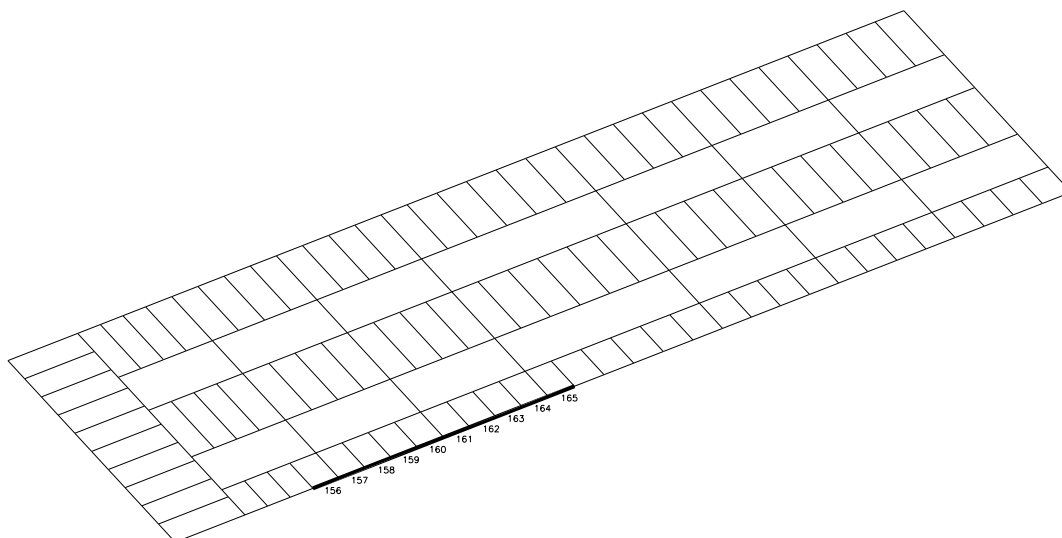
ocel 37

Z = -150.00



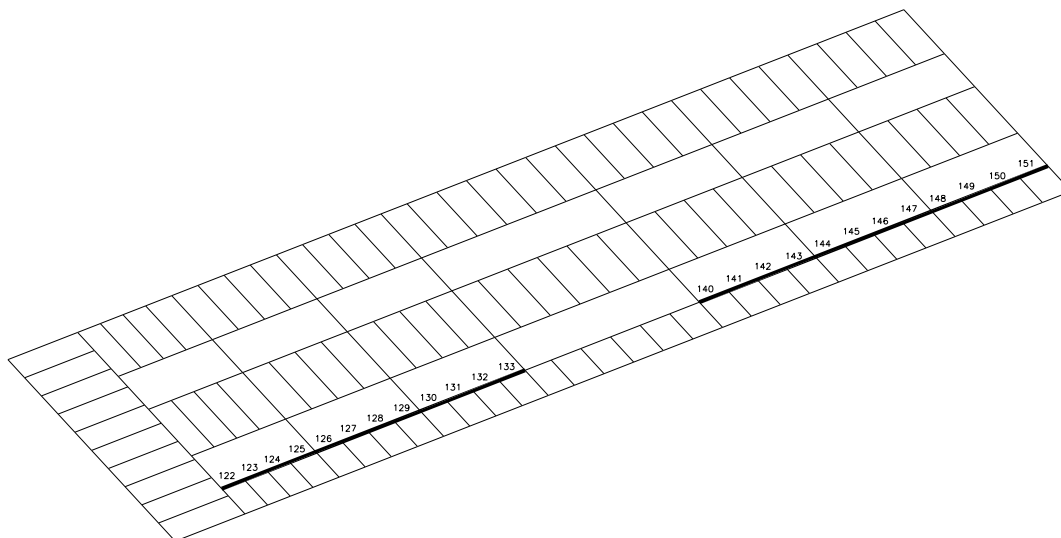
PRUREZ c. 13 (IPE)
plocha A[m2] = 7.29888E-03
mom.setr. Iy[m4] = 1.63327E-04
mom.setr. Iw[m8] = 3.13580E-07
Prvek 1 IPE 360
poloha teziste Y = 85.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 3.80000E-07
mom.setr. Iz[m4] = 1.04382E-05
ocel 37
Z = -180.00

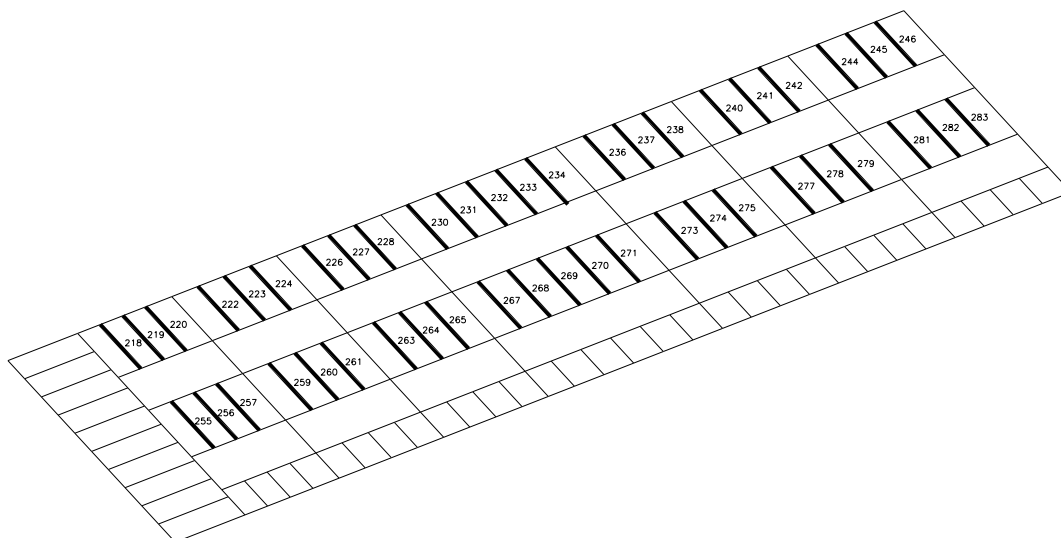


PRUREZ c. 14 (IPE)
plocha A[m2] = 2.40122E-03
mom.setr. Iy[m4] = 1.32098E-05
mom.setr. Iw[m8] = 7.43121E-09
Prvek 1 IPE 180
poloha teziste Y = 45.50

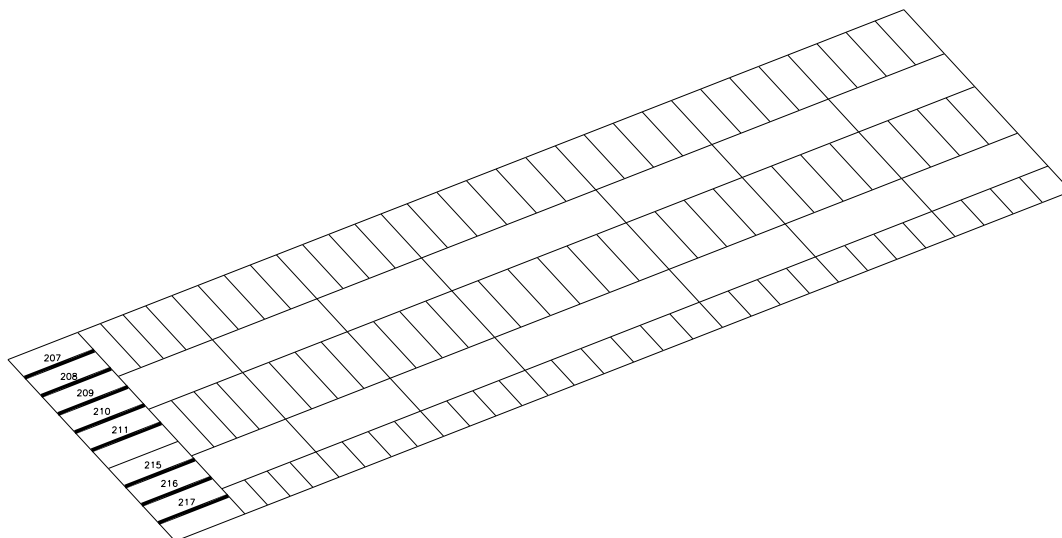
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 4.78000E-08
mom.setr. Iz[m4] = 1.00878E-06
ocel 37
Z = -90.0



PRUREZ c. 15 (IPE)
plocha A[m2] = 1.32495E-03
mom.setr. Iy[m4] = 3.18782E-06
mom.setr. Iw[m8] = 8.89591E-10
Prvek 1 IPE 120
poloha teziste Y = 32.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.70000E-08
mom.setr. Iz[m4] = 2.76789E-07
ocel 37
Z = -60.00



PRUREZ c. 16 (IPE)
plocha A[m2] = 1.64653E-03
mom.setr. Iy[m4] = 5.42664E-06
mom.setr. Iw[m8] = 1.98136E-09
Prvek 1 IPE 140
poloha teziste Y = 36.50
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 2.40999E-08
mom.setr. Iz[m4] = 4.49291E-07
ocel 37
Z = -70.00



PRUREZ c. 17 (IPE)

plocha A[m2] = 4.61253E-03

mom.setr. Iy[m4] = 5.81548E-05

mom.setr. Iw[m8] = 7.05779E-08

Prvek 1 IPE 270

poloha teziste Y = 67.50

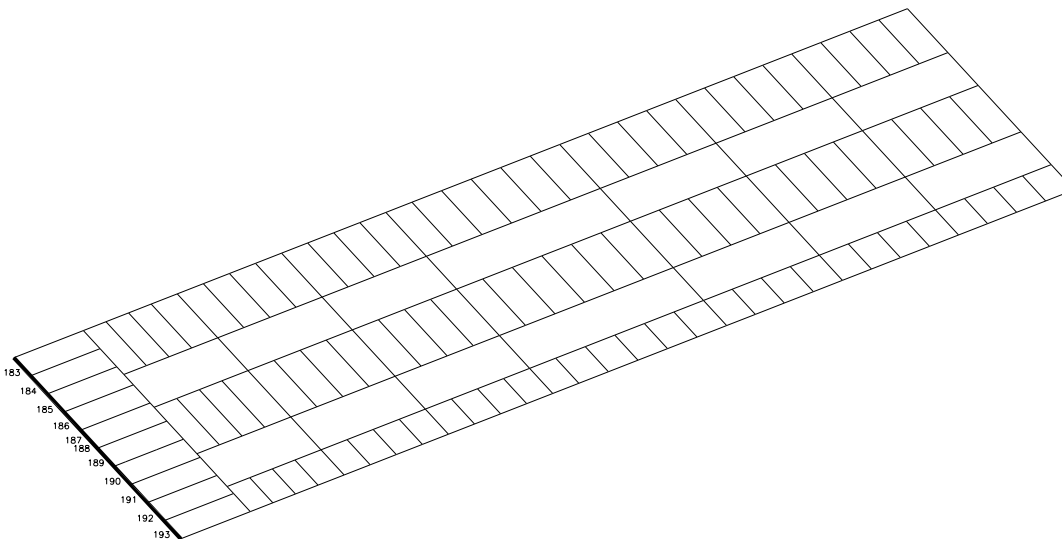
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.61000E-07

mom.setr. Iz[m4] = 4.20045E-06

ocel 37

Z = -135.00



PRUREZ c. 18 (IPE)

plocha A[m2] = 3.92965E-03

mom.setr. Iy[m4] = 3.91143E-05

mom.setr. Iw[m8] = 3.73912E-08

Prvek 1 IPE 240

poloha teziste Y = 60.00

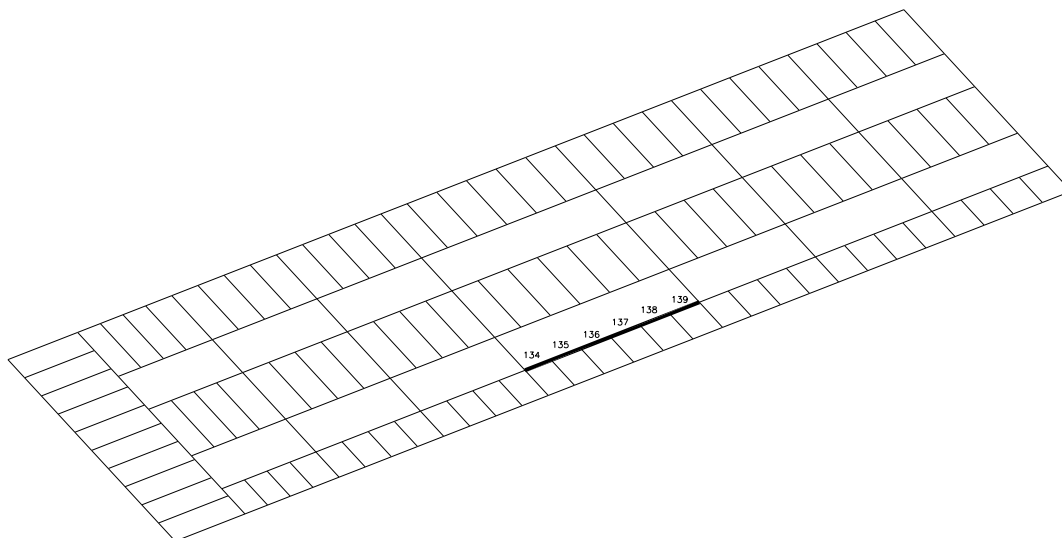
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.31000E-07

mom.setr. Iz[m4] = 2.83805E-06

ocel 37

Z = -120.00



PRUREZ c. 19 (I)

plocha A[m2] = 1.78879E-02

mom.setr. Iy[m4] = 6.83509E-04

mom.setr. Iw[m8] = 1.29243E-06

Prvek 1 I 500

poloha teziste Y = 92.50

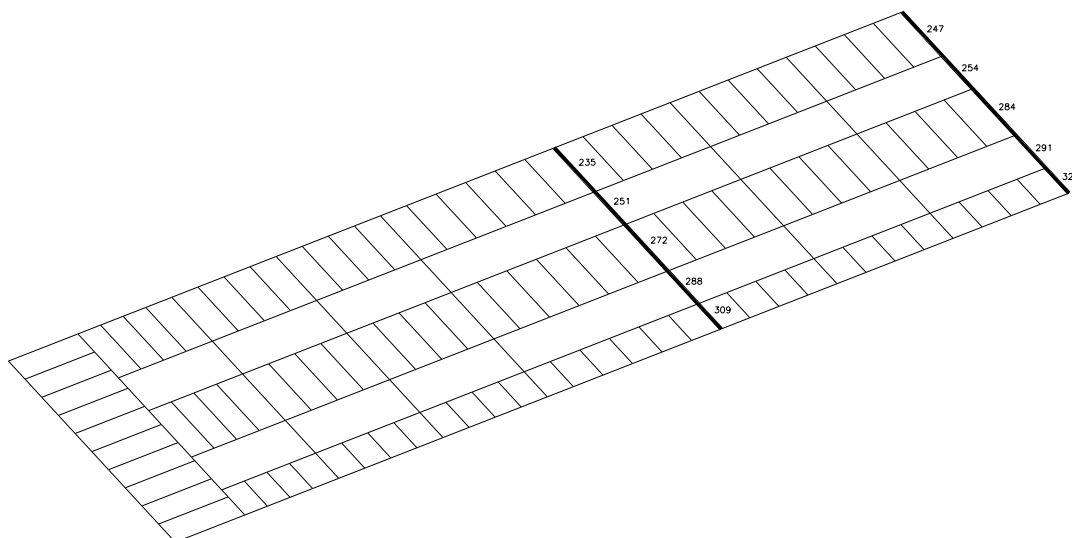
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.99000E-06

mom.setr. Iz[m4] = 2.39460E-05

ocel 37

Z = -250.00



M A T E R I A L

Material c. 1 ocel 37

merna hmotnost [kg/m^3] : 7850.000
pevnost v tahu [MPa] : 210.000
pevnost v tlaku [MPa] : 210.000
pevnost ve smyku [MPa] : 126.000
modul pruznosti [MPa] : 210000.000
Poissonuv soucinitel : 0.300
Soucinitel tep. roztaznosti : 1.5E-0003



Typický uzel : XYZRxRyRz

Typický prut : XYZMxMyMz

prut 32: zac kl.: MyMz
prut 35: kon kl.: MyMz
prut 36: zac kl.: MyMz
prut 39: kon kl.: MyMz
prut 40: zac kl.: MyMz
prut 43: kon kl.: MyMz
prut 44: zac kl.: MyMz
prut 49: kon kl.: MyMz
prut 50: zac kl.: MyMz
prut 53: kon kl.: MyMz
prut 54: zac kl.: MyMz
prut 57: kon kl.: MyMz
prut 58: zac kl.: MyMz
prut 61: kon kl.: MyMz
prut 62: zac kl.: MyMz
prut 65: kon kl.: MyMz
prut 66: zac kl.: MyMz
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prut 103: kon kl.: MyMz
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prut 113: kon kl.: MyMz
prut 114: zac kl.: MyMz
prut 117: kon kl.: MyMz
prut 118: zac kl.: MyMz
prut 121: kon kl.: MyMz
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prut 126: zac kl.: MyMz
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prut 133: kon kl.: MyMz
prut 134: zac kl.: MyMz
prut 139: kon kl.: MyMz
prut 140: zac kl.: MyMz
prut 143: kon kl.: MyMz



prut 144: zac kl.: MyMz
prut 147: kon kl.: MyMz
prut 148: zac kl.: MyMz
prut 151: kon kl.: MyMz
prut 194: zac kl.: MyMz
prut 207: zac kl.: MyMz kon kl.: MyMz
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prut 320: zac kl.: MyMz kon kl.: MyMz
prut 322: kon kl.: MyMz

P O D P O R Y

1	1	X Y Z
2	5	X Y Z
3	15	X Y Z
4	20	X Y Z
5	32	X Y Z
6	126	X Y Z
7	130	X Y Z
8	135	X Y Z
9	140	X Y Z
10	145	X Y Z
11	157	X Y Z
12	162	X Y Z

Z A T E Z O V A C I S T A V Y

1.	TIHA	/ 1.350	stale
2.	PODLAHA		stale
3.	STALE REZERVA		stale
4.	UZITNE		stale
5.	TECHNOLOGIE		stale



ZATIZENI V UZLECH - stav 2 (PODLAHA)								
uzel	Px[kN]	Py[kN]	Pz[kN]	Mx[kNm]	My[kNm]	Mz[kNm]	koef	
63			-1.40				1.35	
94			-1.40				1.35	
125			-1.40				1.35	
207			-0.90				1.35	
208	2.20		-3.80				1.35	
209	-0.50		-2.60				1.35	
ZATIZENI V UZLECH - stav 3 (STALE REZERVA)								
uzel	Px[kN]	Py[kN]	Pz[kN]	Mx[kNm]	My[kNm]	Mz[kNm]	koef	
63			-6.10				1.35	
94			-6.10				1.35	
125			-6.40				1.35	
157			-3.50				1.35	
208	3.20		-5.80				1.35	
209	-0.70		-4.10				1.35	
ZATIZENI V UZLECH - stav 4 (UZITNE)								
uzel	Px[kN]	Py[kN]	Pz[kN]	Mx[kNm]	My[kNm]	Mz[kNm]	koef	
63			-12.20				1.50	
94			-12.90				1.50	
125			-12.90				1.50	
207			-7.00				1.50	
208	3.20		-5.80				1.50	
209	-0.70		-3.00				1.50	
ZATIZENI V UZLECH - stav 5 (TECHNOLOGIE)								
uzel	Px[kN]	Py[kN]	Pz[kN]	Mx[kNm]	My[kNm]	Mz[kNm]	koef	
63			-4.00				1.50	
94			-4.00				1.50	
125			-4.00				1.50	
207			-4.00				1.50	
SPOJITE IMPULZY - stav 1 (TIHA / 1.350)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil			-0.91 glob	0.00%			1.35
				-0.91 del	1.00%			
2	sil			-0.91 glob	0.00%			1.35
				-0.91 del	1.00%			
3	sil			-0.91 glob	0.00%			1.35
				-0.91 del	1.00%			
4	sil			-0.91 glob	0.00%			1.35
				-0.91 del	1.00%			
5	sil			-1.05 glob	0.00%			1.35
				-1.05 del	1.00%			
6	sil			-1.05 glob	0.00%			1.35
				-1.05 del	1.00%			
7	sil			-1.05 glob	0.00%			1.35
				-1.05 del	1.00%			
8	sil			-1.05 glob	0.00%			1.35
				-1.05 del	1.00%			
9	sil			-1.05 glob	0.00%			1.35
				-1.05 del	1.00%			
10	sil			-1.05 glob	0.00%			1.35



	-1.05	del	1.00%	
11 sil	-1.05	glob	0.00%	1.35
	-1.05	del	1.00%	
12 sil	-1.05	glob	0.00%	1.35
	-1.05	del	1.00%	
13 sil	-1.05	glob	0.00%	1.35
	-1.05	del	1.00%	
14 sil	-1.05	glob	0.00%	1.35
	-1.05	del	1.00%	
15 sil	-0.42	glob	0.00%	1.35
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16 sil	-0.42	glob	0.00%	1.35
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17 sil	-0.42	glob	0.00%	1.35
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19 sil	-0.42	glob	0.00%	1.35
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20 sil	-1.73	glob	0.00%	1.35
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29 sil	-1.73	glob	0.00%	1.35
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30 sil	-1.73	glob	0.00%	1.35
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31 sil	-1.73	glob	0.00%	1.35
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32 sil	-0.26	glob	0.00%	1.35
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34 sil	-0.26	glob	0.00%	1.35
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35 sil	-0.26	glob	0.00%	1.35
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38 sil	-0.26	glob	0.00%	1.35
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43 sil	-0.26 glob	0.00%	1.35
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44 sil	-0.42 glob	0.00%	1.35
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49 sil	-0.42 glob	0.00%	1.35
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50 sil	-0.26 glob	0.00%	1.35
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69 sil	-0.26 glob	0.00%	1.35
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70 sil	-0.26 glob	0.00%	1.35



	-0.26 del	1.00%	
71 sil	-0.26 glob	0.00%	1.35
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73 sil	-0.26 glob	0.00%	1.35
	-0.26 del	1.00%	
74 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
75 sil	-0.42 glob	0.00%	1.35
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76 sil	-0.42 glob	0.00%	1.35
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	-0.42 del	1.00%	
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100 sil	-0.26 glob	0.00%	1.35



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	-1.40	del	1.00%	
310 sil	-0.08	glob	0.00%	1.35



311	sil	-0.08	del	1.00%				1.35
		-0.08	glob	0.00%				
		-0.08	del	1.00%				
312	sil	-0.08	glob	0.00%				1.35
		-0.08	del	1.00%				
313	sil	-1.05	glob	0.00%				1.35
		-1.05	del	1.00%				
314	sil	-0.08	glob	0.00%				1.35
		-0.08	del	1.00%				
315	sil	-0.08	glob	0.00%				1.35
		-0.08	del	1.00%				
316	sil	-0.08	glob	0.00%				1.35
		-0.08	del	1.00%				
317	sil	-1.05	glob	0.00%				1.35
		-1.05	del	1.00%				
318	sil	-0.08	glob	0.00%				1.35
		-0.08	del	1.00%				
319	sil	-0.08	glob	0.00%				1.35
		-0.08	del	1.00%				
320	sil	-0.08	glob	0.00%				1.35
		-0.08	del	1.00%				
321	sil	-1.40	glob	0.00%				1.35
		-1.40	del	1.00%				
322	sil	-0.91	glob	0.00%				1.35
		-0.91	del	1.00%				
SPOJITE IMPULZY - stav 2 (PODLAHA)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil			-0.26	glob	0.00%		1.35
				-0.26	prum	1.00%		
152	sil			-0.26	glob	0.00%		1.35
				-0.26	prum	1.00%		
194	sil			-0.21	glob	0.00%		1.35
				-0.21	prum	1.00%		
195	sil			-0.21	glob	0.00%		1.35
				-0.21	prum	1.00%		
196	sil			-0.21	glob	0.00%		1.35
				-0.21	prum	1.00%		
199	sil			-0.21	glob	0.00%		1.35
				-0.21	prum	1.00%		
200	sil			-0.21	glob	0.00%		1.35
				-0.21	prum	1.00%		
201	sil			-0.21	glob	0.00%		1.35
				-0.21	prum	1.00%		
205	sil			-0.21	glob	0.00%		1.35
				-0.21	prum	1.00%		
206	sil			-0.21	glob	0.00%		1.35
				-0.21	prum	1.00%		
207	sil			-0.52	glob	0.00%		1.35
				-0.52	prum	1.00%		
208	sil			-0.52	glob	0.00%		1.35
				-0.52	prum	1.00%		
209	sil			-0.52	glob	0.00%		1.35
				-0.52	prum	1.00%		
210	sil			-0.52	glob	0.00%		1.35
				-0.52	prum	1.00%		
211	sil			-0.52	glob	0.00%		1.35
				-0.52	prum	1.00%		
212	sil			-0.52	glob	0.00%		1.35



	-0.52	prum	1.00%	
213 sil	-0.52	glob	0.00%	1.35
	-0.52	prum	1.00%	
214 sil	-0.52	glob	0.00%	1.35
	-0.52	prum	1.00%	
215 sil	-0.52	glob	0.00%	1.35
	-0.52	prum	1.00%	
216 sil	-0.52	glob	0.00%	1.35
	-0.52	prum	1.00%	
217 sil	-0.52	glob	0.00%	1.35
	-0.52	prum	1.00%	
218 sil	-0.42	glob	0.00%	1.35
	-0.42	prum	1.00%	
219 sil	-0.42	glob	0.00%	1.35
	-0.42	prum	1.00%	
220 sil	-0.45	glob	0.00%	1.35
	-0.45	prum	1.00%	
221 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
222 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
223 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
224 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
225 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
226 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
227 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
228 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
229 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
230 sil	-0.52	glob	0.00%	1.35
	-0.52	prum	1.00%	
231 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
232 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
233 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
234 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
235 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
236 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
237 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
238 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
239 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
240 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
241 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
242 sil	-0.54	glob	0.00%	1.35



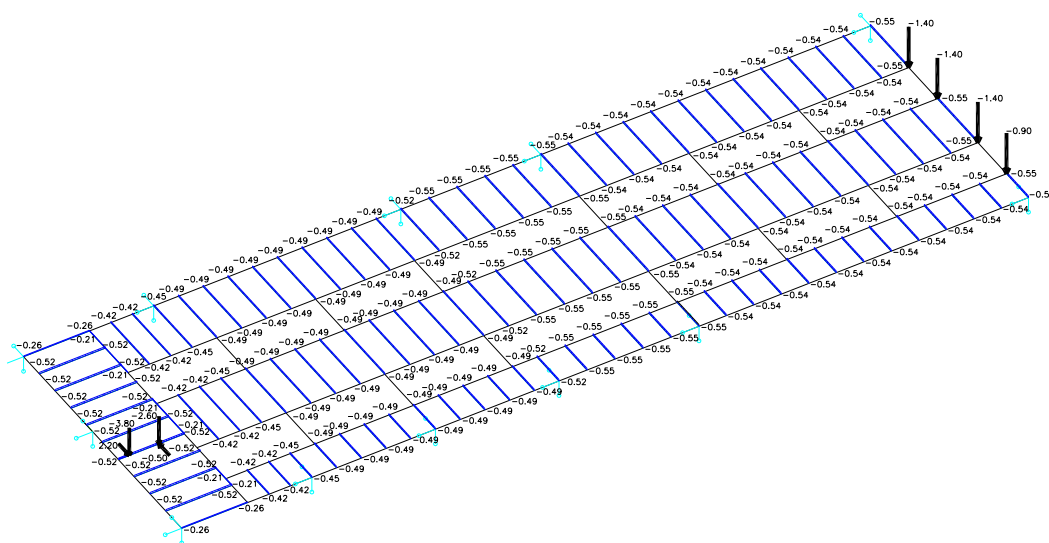
	-0.54	prum	1.00%	
243 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
244 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
245 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
246 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
247 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
255 sil	-0.42	glob	0.00%	1.35
	-0.42	prum	1.00%	
256 sil	-0.42	glob	0.00%	1.35
	-0.42	prum	1.00%	
257 sil	-0.45	glob	0.00%	1.35
	-0.45	prum	1.00%	
258 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
259 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
260 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
261 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
262 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
263 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
264 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
265 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
266 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
267 sil	-0.52	glob	0.00%	1.35
	-0.52	prum	1.00%	
268 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
269 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
270 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
271 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
272 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
273 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
274 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
275 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
276 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
277 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
278 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
279 sil	-0.54	glob	0.00%	1.35



	-0.54	prum	1.00%	
280 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
281 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
282 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
283 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
284 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
292 sil	-0.42	glob	0.00%	1.35
	-0.42	prum	1.00%	
293 sil	-0.42	glob	0.00%	1.35
	-0.42	prum	1.00%	
294 sil	-0.45	glob	0.00%	1.35
	-0.45	prum	1.00%	
295 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
296 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
297 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
298 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
299 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
300 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
301 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
302 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
303 sil	-0.49	glob	0.00%	1.35
	-0.49	prum	1.00%	
304 sil	-0.52	glob	0.00%	1.35
	-0.52	prum	1.00%	
305 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
306 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
307 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
308 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
309 sil	-0.55	glob	0.00%	1.35
	-0.55	prum	1.00%	
310 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
311 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
312 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
313 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
314 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
315 sil	-0.54	glob	0.00%	1.35
	-0.54	prum	1.00%	
316 sil	-0.54	glob	0.00%	1.35



317 sil	-0.54 prum	1.00%	1.35
	-0.54 glob	0.00%	
318 sil	-0.54 prum	1.00%	1.35
	-0.54 glob	0.00%	
319 sil	-0.54 prum	1.00%	1.35
	-0.54 glob	0.00%	
320 sil	-0.54 prum	1.00%	1.35
	-0.54 glob	0.00%	
321 sil	-0.55 prum	1.00%	1.35
	-0.55 glob	0.00%	



SPOJITE IMPULZY - stav 3 (STALE REZERVA)							
prut	typ	X	Y	Z	sourX	exY	exZ
1 sil				-2.00 glob	0.00%		1.35
				-2.00 prum	1.00%		
152 sil				-2.00 glob	0.00%		1.35
				-2.00 prum	1.00%		
194 sil				-1.63 glob	0.00%		1.35
				-1.63 prum	1.00%		
195 sil				-1.63 glob	0.00%		1.35
				-1.63 prum	1.00%		
196 sil				-1.63 glob	0.00%		1.35
				-1.63 prum	1.00%		
200 sil				-1.63 glob	0.00%		1.35
				-1.63 prum	1.00%		
201 sil				-1.63 glob	0.00%		1.35
				-1.63 prum	1.00%		
202 sil				-1.63 glob	0.00%		1.35
				-1.63 prum	1.00%		
206 sil				-1.63 glob	0.00%		1.35
				-1.63 prum	1.00%		
207 sil				-4.00 glob	0.00%		1.35
				-4.00 prum	1.00%		
208 sil				-4.00 glob	0.00%		1.35
				-4.00 prum	1.00%		
209 sil				-4.00 glob	0.00%		1.35
				-4.00 prum	1.00%		
210 sil				-4.00 glob	0.00%		1.35
				-4.00 prum	1.00%		



211 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
212 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
213 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
214 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
215 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
216 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
217 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
218 sil	-3.25 glob	0.00%	1.35
	-3.25 prum	1.00%	
219 sil	-3.25 glob	0.00%	1.35
	-3.25 prum	1.00%	
220 sil	-3.50 glob	0.00%	1.35
	-3.50 prum	1.00%	
221 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
222 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
223 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
224 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
225 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
226 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
227 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
228 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
229 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
230 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
231 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
232 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
233 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
234 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
235 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
236 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
237 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
238 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
239 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
240 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	



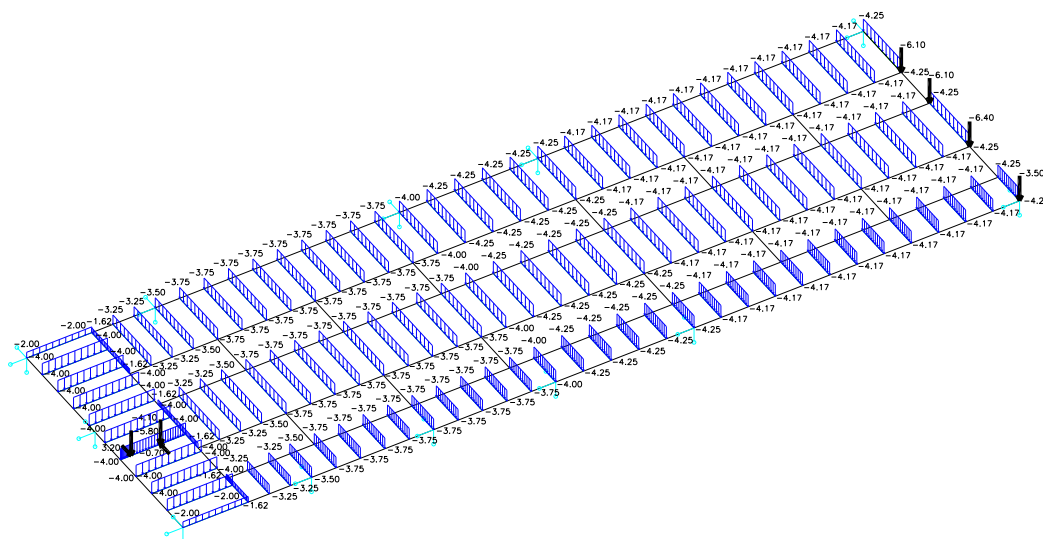
241 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
242 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
243 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
244 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
245 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
246 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
247 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
255 sil	-3.25 glob	0.00%	1.35
	-3.25 prum	1.00%	
256 sil	-3.25 glob	0.00%	1.35
	-3.25 prum	1.00%	
257 sil	-3.50 glob	0.00%	1.35
	-3.50 prum	1.00%	
258 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
259 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
260 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
261 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
262 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
263 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
264 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
265 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
266 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
267 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
268 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
269 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
270 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
271 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
272 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
273 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
274 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
275 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
276 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
277 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	



278 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
279 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
280 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
281 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
282 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
283 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
284 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
292 sil	-3.25 glob	0.00%	1.35
	-3.25 prum	1.00%	
293 sil	-3.25 glob	0.00%	1.35
	-3.25 prum	1.00%	
294 sil	-3.50 glob	0.00%	1.35
	-3.50 prum	1.00%	
295 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
296 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
297 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
298 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
299 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
300 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
301 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
302 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
303 sil	-3.75 glob	0.00%	1.35
	-3.75 prum	1.00%	
304 sil	-4.00 glob	0.00%	1.35
	-4.00 prum	1.00%	
305 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
306 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
307 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
308 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
309 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
310 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
311 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
312 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
313 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
314 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	



315 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
316 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
317 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
318 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
319 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
320 sil	-4.17 glob	0.00%	1.35
	-4.17 prum	1.00%	
321 sil	-4.25 glob	0.00%	1.35
	-4.25 prum	1.00%	
322 sil	-1.63 glob	0.00%	1.35
	-1.63 prum	1.00%	



SPOJITE IMPULZY - stav 4 (UZITNE)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
1 sil				-4.00 glob	0.00%			1.50
				-4.00 prum	1.00%			
152 sil				-4.00 glob	0.00%			1.50
				-4.00 prum	1.00%			
194 sil				-3.25 glob	0.00%			1.50
				-3.25 prum	1.00%			
195 sil				-3.25 glob	0.00%			1.50
				-3.25 prum	1.00%			
196 sil				-3.25 glob	0.00%			1.50
				-3.25 prum	1.00%			
199 sil				-3.25 glob	0.00%			1.50
				-3.25 prum	1.00%			
200 sil				-3.25 glob	0.00%			1.50
				-3.25 prum	1.00%			
201 sil				-3.25 glob	0.00%			1.50
				-3.25 prum	1.00%			
206 sil				-3.25 glob	0.00%			1.50
				-3.25 prum	1.00%			
207 sil				-8.00 glob	0.00%			1.50
				-8.00 prum	1.00%			
208 sil				-8.00 glob	0.00%			1.50



	-8.00	prum	1.00%	
209 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
210 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
211 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
212 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
213 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
214 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
215 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
216 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
217 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
218 sil	-6.50	glob	0.00%	1.50
	-6.50	prum	1.00%	
219 sil	-6.50	glob	0.00%	1.50
	-6.50	prum	1.00%	
220 sil	-7.00	glob	0.00%	1.50
	-7.00	prum	1.00%	
221 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
222 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
223 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
224 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
225 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
226 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
227 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
228 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
229 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
230 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
231 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
232 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
233 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
234 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
235 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
236 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
237 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
238 sil	-8.35	glob	0.00%	1.50



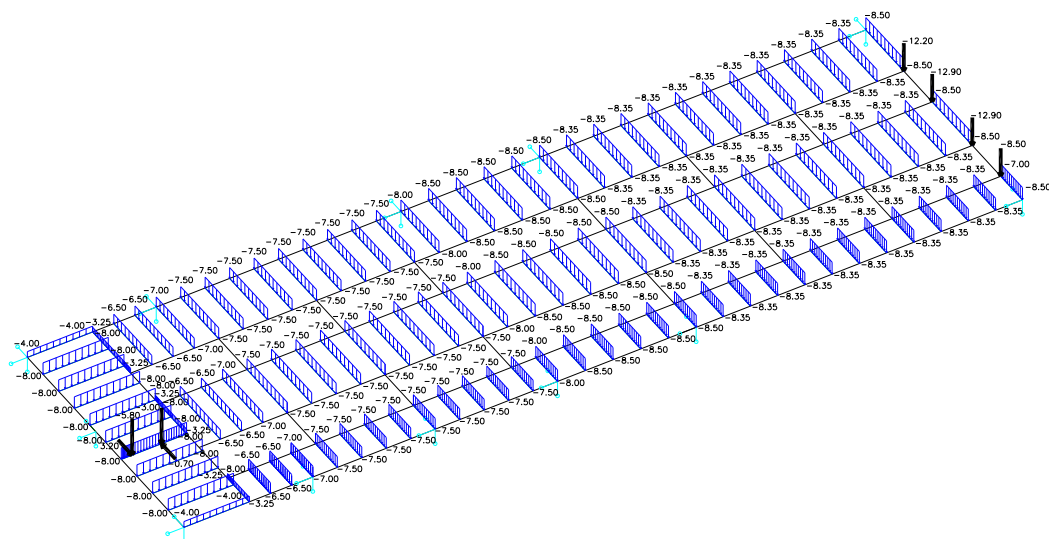
	-8.35	prum	1.00%	
239 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
240 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
241 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
242 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
243 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
244 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
245 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
246 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
247 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
255 sil	-6.50	glob	0.00%	1.50
	-6.50	prum	1.00%	
256 sil	-6.50	glob	0.00%	1.50
	-6.50	prum	1.00%	
257 sil	-7.00	glob	0.00%	1.50
	-7.00	prum	1.00%	
258 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
259 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
260 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
261 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
262 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
263 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
264 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
265 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
266 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
267 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
268 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
269 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
270 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
271 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
272 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
273 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
274 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
275 sil	-8.35	glob	0.00%	1.50



	-8.35	prum	1.00%	
276 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
277 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
278 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
279 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
280 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
281 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
282 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
283 sil	-8.35	glob	0.00%	1.50
	-8.35	prum	1.00%	
284 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
285 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
286 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
287 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
292 sil	-6.50	glob	0.00%	1.50
	-6.50	prum	1.00%	
sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
293 sil	-6.50	glob	0.00%	1.50
	-6.50	prum	1.00%	
sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
294 sil	-7.00	glob	0.00%	1.50
	-7.00	prum	1.00%	
sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
295 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
296 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
297 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
298 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
299 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
300 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
301 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
302 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
303 sil	-7.50	glob	0.00%	1.50
	-7.50	prum	1.00%	
304 sil	-8.00	glob	0.00%	1.50
	-8.00	prum	1.00%	
305 sil	-8.50	glob	0.00%	1.50
	-8.50	prum	1.00%	
306 sil	-8.50	glob	0.00%	1.50



307 sil	-8.50 prum	1.00%	
	-8.50 glob	0.00%	1.50
308 sil	-8.50 prum	1.00%	
	-8.50 glob	0.00%	1.50
309 sil	-8.50 prum	1.00%	
	-8.50 glob	0.00%	1.50
310 sil	-8.50 prum	1.00%	
	-8.35 glob	0.00%	1.50
311 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
312 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
313 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
314 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
315 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
316 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
317 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
318 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
319 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
320 sil	-8.35 prum	1.00%	
	-8.35 glob	0.00%	1.50
321 sil	-8.50 prum	1.00%	
	-8.50 glob	0.00%	1.50
322 sil	-3.25 prum	1.00%	
	-3.25 glob	0.00%	1.50



SPOJITE IMPULZY - stav 5 (TECHNOLOGIE)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
32 sil				-2.40 glob	0.00%			1.50
				-2.40 prum	1.00%			
33 sil				-2.40 glob	0.00%			1.50
				-2.40 prum	1.00%			



34 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
35 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
36 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
37 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
38 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
39 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
40 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
41 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
42 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
43 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
44 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
45 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
46 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
47 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
48 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
49 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
50 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
51 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
52 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
53 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
54 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
55 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
56 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
57 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
58 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
59 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
60 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
61 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
62 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
63 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	



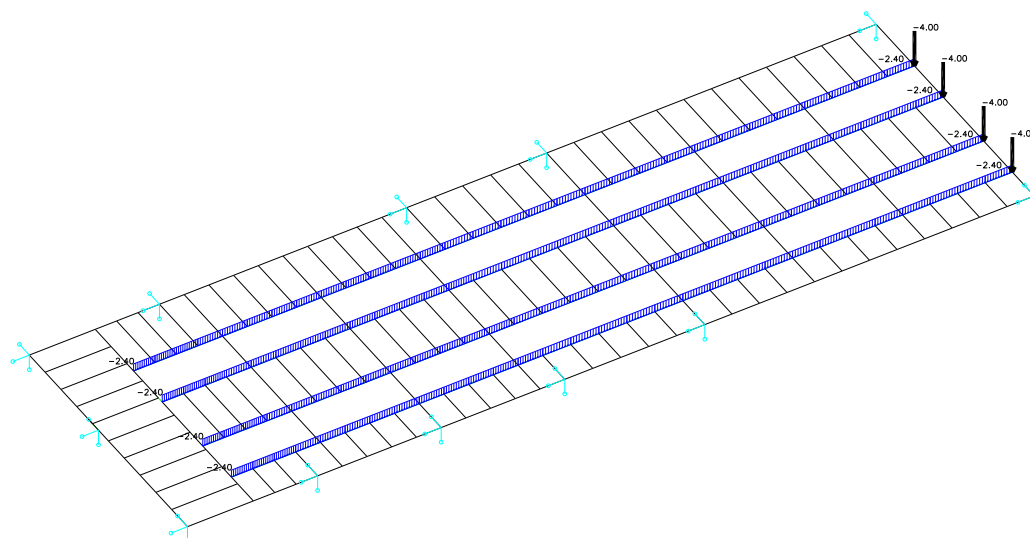
64 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
65 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
66 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
67 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
68 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
69 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
70 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
71 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
72 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
73 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
74 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
75 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
76 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
77 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
78 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
79 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
80 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
81 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
82 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
83 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
84 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
85 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
86 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
87 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
88 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
89 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
90 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
91 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
92 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
93 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	



94 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
95 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
96 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
97 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
98 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
99 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
100 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
101 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
102 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
103 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
104 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
105 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
106 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
107 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
108 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
109 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
110 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
111 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
112 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
113 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
114 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
115 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
116 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
117 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
118 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
119 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
120 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
121 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
122 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
123 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	



124 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
125 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
126 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
127 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
128 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
129 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
130 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
131 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
132 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
133 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
134 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
135 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
136 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
137 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
138 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
139 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
140 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
141 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
142 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
143 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
144 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
145 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
146 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
147 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
148 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
149 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
150 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	
151 sil	-2.40 glob	0.00%	1.50
	-2.40 prum	1.00%	



K O M B I N A C E Z A T. S T A V U -

Kombinace c. 1

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -

Kombinace c. 2

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -

Kombinace c. 3

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0

R E Z Y N A P R U T E C H

prut X Ly Lz Lw L1 stred Y stred Z

1	0.000%	1.975				
	1.000%	1.975				
2	0.000%	6.077	1.000	1.000		
	1.000%	6.077	1.000	1.000		
3	0.000%	6.077	1.000	1.000		
	1.000%	6.077	1.000	1.000		
4	0.000%	6.077	1.000	1.000		
	1.000%	6.077	1.000	1.000		
5	0.000%	10.000	1.000	1.000		
	1.000%	10.000	1.000	1.000		
6	0.000%	10.000	1.000	1.000		
	1.000%	10.000	1.000	1.000		
7	0.000%	10.000	1.000	1.000		



	1.000%	10.000	1.000	1.000
8	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
9	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
10	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
11	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
12	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
13	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
14	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
15	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
16	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
17	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
18	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
19	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
32	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
33	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
34	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
35	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
36	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
37	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
38	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
39	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
40	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
41	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
42	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
43	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
44	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
45	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
46	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
47	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
48	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
49	0.000%	6.000	1.000	1.000



	1.000%	6.000	1.000	1.000
50	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
51	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
52	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
53	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
54	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
55	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
56	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
57	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
58	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
59	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
60	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
61	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
62	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
63	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
64	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
65	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
66	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
67	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
68	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
69	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
70	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
71	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
72	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
73	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
74	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
75	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
76	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
77	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
78	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
79	0.000%	6.000	1.000	1.000



	1.000%	6.000	1.000	1.000
80	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
81	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
82	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
83	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
84	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
85	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
86	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
87	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
88	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
89	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
90	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
91	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
92	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
93	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
94	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
95	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
96	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
97	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
98	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
99	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
100	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
101	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
102	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
103	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
104	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
105	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
106	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
107	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
108	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
109	0.000%	6.000	1.000	1.000



	1.000%	6.000	1.000	1.000
110	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
111	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
112	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
113	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
114	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
115	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
116	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
117	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
118	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
119	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
120	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
121	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
122	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
123	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
124	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
125	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
126	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
127	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
128	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
129	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
130	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
131	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
132	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
133	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
134	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
135	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
136	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
137	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
138	0.000%	6.000	1.000	1.000
	1.000%	6.000	1.000	1.000
139	0.000%	6.000	1.000	1.000



	1.000%	6.000	1.000	1.000
140	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
141	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
142	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
143	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
144	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
145	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
146	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
147	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
148	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
149	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
150	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
151	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
152	0.000%	1.975		
	1.000%	1.975		
153	0.000%	6.077	1.000	1.000
	1.000%	6.077	1.000	1.000
154	0.000%	6.077	1.000	1.000
	1.000%	6.077	1.000	1.000
155	0.000%	6.077	1.000	1.000
	1.000%	6.077	1.000	1.000
156	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
157	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
158	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
159	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
160	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
161	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
162	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
163	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
164	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
165	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
166	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
167	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
168	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
169	0.000%	5.000	1.000	1.000



	1.000%	5.000	1.000	1.000
170	0.000%	5.000	1.000	1.000
	1.000%	5.000	1.000	1.000
183	0.000%	4.375	1.000	1.000
	1.000%	4.375	1.000	1.000
184	0.000%	4.375	1.000	1.000
	1.000%	4.375	1.000	1.000
185	0.000%	4.375	1.000	1.000
	1.000%	4.375	1.000	1.000
186	0.000%	4.375	1.000	1.000
	1.000%	4.375	1.000	1.000
187	0.000%	11.666	1.000	1.000
	1.000%	11.666	1.000	1.000
188	0.000%	9.000	1.000	1.000
	1.000%	9.000	1.000	1.000
189	0.000%	5.625	1.000	1.000
	1.000%	5.625	1.000	1.000
190	0.000%	5.625	1.000	1.000
	1.000%	5.625	1.000	1.000
191	0.000%	5.625	1.000	1.000
	1.000%	5.625	1.000	1.000
192	0.000%	5.625	1.000	1.000
	1.000%	5.625	1.000	1.000
193	0.000%	5.625	1.000	1.000
	1.000%	5.625	1.000	1.000
197	0.000%	23.529	1.000	1.000
	1.000%	23.529	1.000	1.000
198	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
199	0.000%	25.806	1.000	1.000
	1.000%	25.806	1.000	1.000
203	0.000%	50.000	1.000	1.000
	1.000%	50.000	1.000	1.000
204	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
205	0.000%	16.326	1.000	1.000
	1.000%	16.326	1.000	1.000
221	0.000%	4.123		
	1.000%	4.123		
225	0.000%	4.123		
	1.000%	4.123		
229	0.000%	4.123		
	1.000%	4.123		
235	0.000%	4.123		
	1.000%	4.123		
239	0.000%	4.123		
	1.000%	4.123		
243	0.000%	4.123		
	1.000%	4.123		
247	0.000%	4.123		
	1.000%	4.123		
248	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
249	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
250	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
251	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
252	0.000%	5.517	1.000	1.000



	1.000%	5.517	1.000	1.000
253	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
254	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
285	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
286	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
287	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
288	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
289	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
290	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
291	0.000%	5.517	1.000	1.000
	1.000%	5.517	1.000	1.000
295	0.000%	7.200		
	1.000%	7.200		
299	0.000%	7.200		
	1.000%	7.200		
303	0.000%	7.200		
	1.000%	7.200		
309	0.000%	7.200		
	1.000%	7.200		
313	0.000%	7.200		
	1.000%	7.200		
317	0.000%	7.200		
	1.000%	7.200		
321	0.000%	7.200		
	1.000%	7.200		

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minim		2.řadek = maximum				
síla X								
206	0.000	3	-0.2	0.0	-141.8	176.7	0.0	0.0
195	0.000	3	0.2	0.0	133.8	123.9	0.0	0.0
moment X								
322	0.000	1	-0.1	0.0	-67.2	54.9	0.0	0.0
196	0.000	3	0.2	0.0	109.3	228.2	0.0	0.0
síla Z								
322	0.800	3	-0.2	0.0	-168.6	0.0	0.0	0.0
194	0.000	3	0.2	0.0	158.2	0.0	0.0	0.0
moment Y								
194	0.000	1	0.1	0.0	66.4	0.0	0.0	0.0
201	0.000	3	0.2	0.0	-10.6	363.2	0.0	0.0
síla Y								
206	0.000	3	-0.2	0.0	-141.8	176.7	0.0	0.0
194	0.000	3	0.2	0.0	158.2	0.0	0.0	0.0
moment Z								
322	0.000	3	-0.2	0.0	-162.1	132.3	0.0	0.0
195	0.000	3	0.2	0.0	133.8	123.9	0.0	0.0

Vyhledáno pro

Prurez : 1

Sled kombinací : 1..3



Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
221	0.000	3	0.0	-0.2	155.8	0.0	0.0	0.0
225	0.000	3	0.0	0.0	161.3	0.0	0.0	0.0
moment X								
221	0.000	3	0.0	-0.2	155.8	0.0	0.0	0.0
295	0.000	3	0.0	0.7	-156.4	184.6	0.0	0.0
síla Z								
313	1.110	3	0.0	0.0	-180.5	0.0	0.0	0.0
239	0.000	3	0.0	0.0	174.5	0.0	0.0	0.0
moment Y								
299	1.110	3	0.0	0.0	-175.6	0.0	0.0	0.0
276	0.000	3	0.0	0.0	-2.6	400.5	0.0	0.0
síla Y								
248	0.000	3	0.0	-0.2	64.8	268.7	0.0	0.0
295	0.000	3	0.0	0.7	-156.4	184.6	0.0	0.0
moment Z								
295	0.000	3	0.0	0.7	-156.4	184.6	0.0	0.0
221	1.940	3	0.0	-0.2	121.1	268.7	0.0	0.0

Vyhledáno pro

Prurez : 2

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
229	0.000	3	0.0	0.0	208.5	0.0	0.0	0.0
303	0.000	1	0.0	0.0	-94.5	109.5	0.0	0.0
moment X								
229	0.000	1	0.0	0.0	95.2	0.0	0.0	0.0
250	0.000	3	0.0	0.0	87.3	370.5	0.0	0.0
síla Z								
303	1.110	3	0.0	0.0	-227.0	0.0	0.0	0.0
229	0.000	3	0.0	0.0	208.5	0.0	0.0	0.0
moment Y								
303	1.110	3	0.0	0.0	-227.0	0.0	0.0	0.0
250	1.450	3	0.0	0.0	84.8	495.2	0.0	0.0
síla Y								
250	0.000	3	0.0	0.0	87.3	370.5	0.0	0.0
303	0.000	3	0.0	0.0	-206.8	240.8	0.0	0.0
moment Z								
287	1.450	3	0.0	0.0	-151.2	240.8	0.0	0.0
229	1.940	3	0.0	0.0	173.4	370.4	0.0	0.0

Vyhledáno pro

Prurez : 3

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								



65	0.000	3	0.0	0.0	-24.5	19.5	0.0	0.0
35	0.000	3	0.0	0.0	-23.3	18.6	0.0	0.0
moment X								
102	0.000	3	0.0	0.0	-8.5	30.0	0.0	0.0
34	0.000	3	0.0	0.0	-5.7	23.2	0.0	0.0
sila Z								
121	0.825	3	0.0	0.0	-35.1	0.0	0.0	0.0
110	0.000	3	0.0	0.0	35.1	0.0	0.0	0.0
moment Y								
39	0.750	3	0.0	0.0	-30.1	0.0	0.0	0.0
86	0.000	3	0.0	0.0	-9.5	37.1	0.0	0.0
sila Y								
33	0.000	3	0.0	0.0	10.8	17.0	0.0	0.0
32	0.000	3	0.0	0.0	27.4	0.0	0.0	0.0
moment Z								
35	0.000	3	0.0	0.0	-23.3	18.6	0.0	0.0
33	0.000	3	0.0	0.0	10.8	17.0	0.0	0.0

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	=	minimum	2.radek	=	maximum		
sila X								
296	0.000	3	0.0	0.0	9.2	0.0	0.0	0.0
292	0.000	3	0.0	0.0	14.2	0.0	0.0	0.0
moment X								
304	0.000	3	0.0	0.0	9.8	0.0	0.0	0.0
308	0.000	3	0.0	0.0	10.4	0.0	0.0	0.0
sila Z								
294	1.110	3	0.0	0.0	-14.8	0.0	0.0	0.0
294	0.000	3	0.0	0.0	14.8	0.0	0.0	0.0
moment Y								
306	1.110	3	0.0	0.0	-10.4	0.0	0.0	0.0
294	0.555	3	0.0	0.0	0.0	4.1	0.0	0.0
sila Y								
292	0.000	3	0.0	0.0	14.2	0.0	0.0	0.0
320	0.000	1	0.0	0.0	3.6	0.0	0.0	0.0
moment Z								
292	1.110	3	0.0	0.0	-14.2	0.0	0.0	0.0
292	0.000	1	0.0	0.0	2.8	0.0	0.0	0.0

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	=	minimum	2.radek	=	maximum		
sila X								
213	0.000	1	0.0	0.0	5.6	6.5	-1.8	1.8
214	0.000	3	0.0	0.0	-15.5	17.3	-0.3	0.3
moment X								
212	0.000	1	0.0	0.0	20.7	0.0	5.5	0.0
213	0.000	3	0.0	0.0	13.5	12.3	-2.9	2.9
sila Z								
214	0.770	3	0.0	0.0	-29.3	0.0	-0.3	0.0



212	0.000	3	0.0	0.0	40.3	0.0	8.7	0.0
moment Y								
214	0.770	1	0.0	0.0	-14.1	0.0	-0.2	0.0
214	0.000	3	0.0	0.0	-15.5	17.3	-0.3	0.3
sila Y								
213	0.000	3	0.0	0.0	13.5	12.3	-2.9	2.9
212	0.000	3	0.0	0.0	40.3	0.0	8.7	0.0
moment Z								
212	0.000	1	0.0	0.0	20.7	0.0	5.5	0.0
213	0.000	3	0.0	0.0	13.5	12.3	-2.9	2.9

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum				
sila X								
104	0.000	3	0.0	0.0	58.6	0.0	0.0	0.0
45	0.000	3	0.0	0.0	35.7	40.8	0.0	0.0
moment X								
46	0.000	3	0.0	0.0	13.9	69.7	0.0	0.0
109	0.000	3	0.0	0.0	-53.9	47.3	0.0	0.0
sila Z								
109	0.850	3	0.0	0.0	-57.5	0.0	0.0	0.0
74	0.000	3	0.0	0.0	58.6	0.0	0.0	0.0
moment Y								
49	0.850	3	0.0	0.0	-54.9	0.0	0.0	0.0
107	0.000	3	0.0	0.0	-8.3	83.9	0.0	0.0
sila Y								
44	0.000	3	0.0	0.0	56.0	0.0	0.0	0.0
46	0.000	3	0.0	0.0	13.9	69.7	0.0	0.0
moment Z								
45	0.850	3	0.0	0.0	32.2	69.7	0.0	0.0
49	0.000	3	0.0	0.0	-51.4	45.2	0.0	0.0

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum				
sila X								
181	0.000	3	0.0	0.0	-216.2	370.7	0.0	0.0
173	0.000	3	0.0	0.0	222.3	316.2	0.0	0.0
moment X								
174	0.000	3	0.0	0.0	210.1	501.0	0.0	0.0
180	0.000	1	0.0	0.0	-97.0	258.5	0.0	0.0
sila Z								
182	0.825	3	0.0	0.0	-230.5	0.0	0.0	0.0
171	0.000	3	0.0	0.0	246.8	-81.7	0.0	0.0
171	0				129.1			
moment Y								
171	0.000	3	0.0	0.0	246.8	-81.7	0.0	0.0
177	0.835	3	0.0	0.0	1.0	711.4	0.0	0.0
sila Y								



171	0.000	3	0.0	0.0	246.8	-81.7	0.0	0.0
176	0.000	1	0.0	0.0	7.6	333.3	0.0	0.0
171	0						0.0	
moment Z								
182	0.825	3	0.0	0.0	-230.5	0.0	0.0	0.0
171	0.000	3	0.0	0.0	246.8	-81.7	0.0	0.0

Vyhledano pro

Prurez : 8

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi		N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim	2.radek = maximum						
síla X								
21	0.000	3	0.0	0.0	254.5	150.2	0.0	0.0
29	0.000	3	0.0	0.0	-217.6	594.8	0.0	0.0
moment X								
23	0.000	1	0.0	0.0	98.7	253.3	0.0	0.0
24	0.000	3	0.0	0.0	38.3	735.5	0.0	0.0
síla Z								
31	0.825	3	0.0	0.0	-259.3	0.0	0.0	0.0
20	0.000	3	0.0	0.0	274.4	-75.4	0.0	0.0
moment Y								
20	0.000	3	0.0	0.0	274.4	-75.4	0.0	0.0
25	0.835	3	0.0	0.0	16.5	781.3	0.0	0.0
síla Y								
24	0.000	3	0.0	0.0	38.3	735.5	0.0	0.0
23	0.000	1	0.0	0.0	98.7	253.3	0.0	0.0
moment Z								
31	0.825	3	0.0	0.0	-259.3	0.0	0.0	0.0
20	0.000	3	0.0	0.0	274.4	-75.4	0.0	0.0

Vyhledano pro

Prurez : 9

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi		N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim	2.radek = maximum						
síla X								
1	0.000	3	0.0	0.0	13.8	0.0	0.0	0.0
2	0.000	3	0.0	0.0	-164.4	7.6	-0.1	0.1
moment X								
3	0.000	3	0.0	0.0	-179.2	-99.5	0.0	0.0
154	0.000	3	0.0	0.0	-123.3	70.0	0.0	0.0
síla Z								
4	0.650	3	0.0	0.0	-194.7	-342.5	0.0	0.0
152	0.000	3	0.0	0.0	80.3	0.0	0.0	0.0
moment Y								
4	0.650	3	0.0	0.0	-194.7	-342.5	0.0	0.0
152	2.000	3	0.0	0.0	60.3	140.6	0.0	0.1
síla Y								
2	0.000	3	0.0	0.0	-164.4	7.6	-0.1	0.1
1	0.000	3	0.0	0.0	13.8	0.0	0.0	0.0
moment Z								
4	0.650	3	0.0	0.0	-194.7	-342.5	0.0	0.0
1	2.000	3	0.0	0.0	-6.2	7.6	0.0	0.1



Vyhledano pro

Prurez : 10

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
síla X								
5	0.000	3	0.0	0.0	331.2	-342.5	0.0	0.0
14	0.000	3	0.0	0.0	-300.8	151.4	0.0	0.0
moment X								
13	0.000	3	0.0	0.0	-91.2	220.1	0.0	0.0
14	0.000	1	0.0	0.0	-134.5	70.3	0.0	0.0
síla Z								
14	0.750	3	0.0	0.0	-301.8	-74.6	0.0	0.0
moment Y								
5	0.000	3	0.0	0.0	331.2	-342.5	0.0	0.0
10	0.000	3	0.0	0.0	-39.6	349.2	0.0	0.0
síla Y								
10	0.000	3	0.0	0.0	-39.6	349.2	0.0	0.0
6	0.000	3	0.0	0.0	174.3	-94.7	0.0	0.0
moment Z								
5	0.000	3	0.0	0.0	331.2	-342.5	0.0	0.0
10	0.000	3	0.0	0.0	-39.6	349.2	0.0	0.0

Vyhledano pro

Prurez : 11

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
síla X								
166	0.000	3	0.0	0.0	8.8	-25.3	0.0	0.0
170	0.000	3	0.0	0.0	-34.8	-51.9	0.0	0.0
moment X								
18	0.000	3	0.0	0.0	-18.7	-27.3	0.0	0.0
169	0.000	3	0.0	0.0	-23.9	-31.3	0.0	0.0
síla Z								
19	0.850	3	0.0	0.0	-37.9	-75.4	0.0	0.0
15	0.000	3	0.0	0.0	37.5	-74.6	0.0	0.0
moment Y								
170	0.850	3	0.0	0.0	-35.3	-81.7	0.0	0.0
167	0.000	1	0.0	0.0	-2.2	-8.2	0.0	0.0
síla Y								
16	0.000	1	0.0	0.0	7.0	-19.3	0.0	0.0
15	0.000	3	0.0	0.0	37.5	-74.6	0.0	0.0
moment Z								
15	0.000	3	0.0	0.0	37.5	-74.6	0.0	0.0
19	0.850	3	0.0	0.0	-37.9	-75.4	0.0	0.0

Vyhledano pro

Prurez : 12

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m



extremy	1.radek = minimim			2.radek = maximum				
sila X								
165	0.000	3	0.0	0.0	-184.3	113.1	0.0	0.0
156	0.000	3	0.0	0.0	164.6	-100.7	0.0	0.0
moment X								
161	0.000	2	0.0	0.0	56.7	-47.0	0.0	0.0
159	0.000	3	0.0	0.0	-31.8	-4.2	0.0	0.0
sila Z								
165	0.750	3	0.0	0.0	-184.9	-25.3	0.0	0.0
156	0.000	3	0.0	0.0	164.6	-100.7	0.0	0.0
moment Y								
156	0.000	3	0.0	0.0	164.6	-100.7	0.0	0.0
164	0.750	3	0.0	0.0	42.7	113.2	0.0	0.0
sila Y								
165	0.000	3	0.0	0.0	-184.3	113.1	0.0	0.0
156	0.000	3	0.0	0.0	164.6	-100.7	0.0	0.0
moment Z								
156	0.000	3	0.0	0.0	164.6	-100.7	0.0	0.0
160	0.750	3	0.0	0.0	-42.1	-59.7	0.0	0.0

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
123	0.000	3	0.0	0.0	10.4	16.8	0.0	0.0
148	0.000	1	0.0	0.0	11.8	0.0	0.0	0.0
moment X								
124	0.000	3	0.0	0.0	-6.3	22.8	0.0	0.0
126	0.000	3	0.0	0.0	19.6	0.0	0.0	0.0
sila Z								
125	0.750	3	0.0	0.0	-26.5	-0.9	0.0	0.0
122	0.000	3	0.0	0.0	27.2	0.0	0.0	0.0
moment Y								
125	0.750	3	0.0	0.0	-26.5	-0.9	0.0	0.0
123	0.650	3	0.0	0.0	7.9	22.8	0.0	0.0
sila Y								
125	0.000	3	0.0	0.0	-23.6	17.9	0.0	0.0
122	0.000	3	0.0	0.0	27.2	0.0	0.0	0.0
moment Z								
125	0.750	3	0.0	0.0	-26.5	-0.9	0.0	0.0
122	0.650	3	0.0	0.0	24.7	16.8	0.0	0.0

Vyhledano pro

Prurez : 14

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
218	0.000	3	0.0	0.0	14.0	0.0	0.0	0.0
220	0.000	3	0.0	0.0	15.0	0.0	0.0	0.0
moment X								
234	0.000	3	0.0	0.0	18.2	0.0	0.0	0.0



230	0.000	3	0.0	0.0	17.2	0.0	0.0	0.0
sila Z								
268	2.050	3	0.0	0.0	-19.3	0.0	0.0	0.0
268	0.000	3	0.0	0.0	19.3	0.0	0.0	0.0
moment Y								
232	1.940	3	0.0	0.0	-18.2	0.0	0.0	0.0
268	1.025	3	0.0	0.0	0.0	9.9	0.0	0.0
sila Y								
218	0.000	3	0.0	0.0	14.0	0.0	0.0	0.0
261	0.000	3	0.0	0.0	17.0	0.0	0.0	0.0
moment Z								
218	1.940	3	0.0	0.0	-14.0	0.0	0.0	0.0
261	2.050	3	0.0	0.0	-17.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 15

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
217	0.000	3	0.0	0.0	17.7	0.0	0.0	0.0
207	0.000	3	0.0	0.0	17.7	0.0	0.0	0.0
moment X								
207	0.000	3	0.0	0.0	17.7	0.0	0.0	0.0
215	0.000	3	0.0	0.0	17.7	0.0	0.0	0.0
sila Z								
207	2.000	3	0.0	0.0	-17.7	0.0	0.0	0.0
207	0.000	3	0.0	0.0	17.7	0.0	0.0	0.0
moment Y								
211	2.000	3	0.0	0.0	-17.7	0.0	0.0	0.0
207	1.000	3	0.0	0.0	0.0	8.9	0.0	0.0
sila Y								
215	0.000	1	0.0	0.0	6.3	0.0	0.0	0.0
210	0.000	3	0.0	0.0	17.7	0.0	0.0	0.0
moment Z								
207	0.000	1	0.0	0.0	6.3	0.0	0.0	0.0
210	2.000	3	0.0	0.0	-17.7	0.0	0.0	0.0

Vyhledano pro

Prurez : 16

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
191	0.000	3	-2.5	0.0	0.4	43.0	0.0	0.0
188	0.000	3	6.2	0.0	77.2	-57.4	0.0	0.0
moment X								
189	0.000	1	3.9	0.0	26.9	-7.2	0.0	0.0
193	0.000	3	-2.5	0.0	-35.8	28.9	0.0	0.0
sila Z								
187	0.300	3	0.0	0.0	-57.8	-57.4	0.0	0.0
188	0.000	3	6.2	0.0	77.2	-57.4	0.0	0.0
moment Y								
188	0.000	3	6.2	0.0	77.2	-57.4	0.0	0.0



191	0.800	3	-2.5	0.0	0.0	43.2	0.0	0.0
sila Y								
193	0.000	3	-2.5	0.0	-35.8	28.9	0.0	0.0
192	0.000	3	-2.5	0.0	-17.7	43.2	0.0	0.0
oment Z								
193	0.800	3	-2.5	0.0	-36.2	0.0	0.0	0.0
183	0.000	3	0.0	0.0	14.9	0.0	0.0	0.0

Vyhledano pro

Prurez : 17

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
138	0.000	3	0.0	0.0	-18.2	45.6	0.0	0.0
134	0.000	1	0.0	0.0	19.2	0.0	0.0	0.0
moment X								
135	0.000	1	0.0	0.0	12.7	13.3	0.0	0.0
134	0.000	3	0.0	0.0	36.1	0.0	0.0	0.0
sila Z								
139	0.850	3	0.0	0.0	-35.5	0.0	0.0	0.0
134	0.000	3	0.0	0.0	36.1	0.0	0.0	0.0
moment Y								
139	0.850	2	0.0	0.0	-28.5	0.0	0.0	0.0
136	0.850	3	0.0	0.0	6.0	50.8	0.0	0.0
sila Y								
134	0.000	3	0.0	0.0	36.1	0.0	0.0	0.0
136	0.000	3	0.0	0.0	9.4	44.2	0.0	0.0
moment Z								
135	0.850	3	0.0	0.0	19.9	44.3	0.0	0.0
134	0.000	1	0.0	0.0	19.2	0.0	0.0	0.0

Vyhledano pro

Prurez : 18

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
309	0.000	3	0.0	0.0	-202.5	237.4	0.0	0.0
235	0.000	3	0.0	0.0	215.9	0.0	0.0	0.0
235	0		0.0					
moment X								
321	0.000	1	0.0	0.0	-74.5	87.9	0.0	0.0
235	0.000	1	0.0	0.0	100.4	0.0	0.0	0.0
251	0			0.0				
sila Z								
309	1.110	3	0.0	0.0	-225.3	0.0	0.0	0.0
235	0.000	3	0.0	0.0	215.9	0.0	0.0	0.0
309	1				117.2			
moment Y								
235	0.000	3	0.0	0.0	215.9	0.0	0.0	0.0
251	1.450	3	0.0	0.0	84.8	505.0	0.0	0.0
251	1					267.1		
sila Y								



AFRI CZ s.r.o.

Modernizace teplárny Mladá Boleslav

Dokumentace pro vydání stavebního povolení

Datum: 12/2023

SO 203 – Úpravy kotelny K 80/K90 - OK

Revize 0

251	0.000	3	0.0	0.0	87.5	380.1	0.0	0.0
309	0.000	3	0.0	0.0	-202.5	237.4	0.0	0.0
309	0						0.0	
moment Z								
309	0.000	3	0.0	0.0	-202.5	237.4	0.0	0.0
309	1.110	3	0.0	0.0	-225.3	0.0	0.0	0.0
309	1							0.0

Vyhledano pro

Prurez : 19

Sled kombinací : 1..3

Vypočtové reakce v podporách

Uzel	ZS	Px kN	Py kN	Pz kN	Mx kN.m	My kN.m	Mz kN.m
1	1	0.0	0.0	1.4	0.0	0.0	0.0
	2	0.0	0.0	1.1	0.0	0.0	0.0
	3	0.0	0.0	9.6	0.0	0.0	0.0
	4	0.0	0.0	20.7	0.0	0.0	0.0
	5	0.0	0.0	-3.1	0.0	0.0	0.0
5	1	0.0	0.0	32.2	0.0	0.0	0.0
	2	0.0	0.0	18.9	0.0	0.0	0.0
	3	0.0	0.0	140.5	0.0	0.0	0.0
	4	0.0	0.0	319.6	0.0	0.0	0.0
	5	0.0	0.0	43.9	0.0	0.0	0.0
15	1	0.0	0.0	19.7	0.0	0.0	0.0
	2	0.0	0.0	11.9	0.0	0.0	0.0
	3	0.0	0.0	92.0	0.0	0.0	0.0
	4	0.0	0.0	210.2	0.0	0.0	0.0
	5	0.0	0.0	31.9	0.0	0.0	0.0
20	1	0.0	0.0	35.1	0.0	0.0	0.0
	2	0.0	0.0	17.8	0.0	0.0	0.0
	3	0.0	0.0	136.9	0.0	0.0	0.0
	4	0.0	0.0	303.6	0.0	0.0	0.0
	5	0.0	0.0	48.4	0.0	0.0	0.0
32	1	0.0	0.0	29.3	0.0	0.0	0.0
	2	0.0	0.0	15.9	0.0	0.0	0.0
	3	0.0	0.0	110.9	0.0	0.0	0.0
	4	0.0	0.0	248.5	0.0	0.0	0.0
	5	0.0	0.0	42.7	0.0	0.0	0.0
126	1	0.0	0.0	5.9	0.0	0.0	0.0
	2	-0.7	0.0	5.6	0.0	0.0	0.0
	3	-1.0	0.0	32.6	0.0	0.0	0.0
	4	-1.1	0.0	72.6	0.0	0.0	0.0
	5	0.0	0.0	3.1	0.0	0.0	0.0
130	1	0.0	0.0	16.1	0.0	0.0	0.0
	2	0.0	0.0	10.3	0.0	0.0	0.0
	3	0.0	0.0	73.2	0.0	0.0	0.0
	4	0.0	0.0	200.3	0.0	0.0	0.0
	5	0.0	0.0	26.0	0.0	0.0	0.0
135	1	0.0	0.0	16.0	0.0	0.0	0.0
	2	0.0	0.0	8.7	0.0	0.0	0.0
	3	0.0	0.0	67.9	0.0	0.0	0.0
	4	0.0	0.0	168.5	0.0	0.0	0.0
	5	0.0	0.0	35.9	0.0	0.0	0.0
140	1	0.0	0.0	9.9	0.0	0.0	0.0
	2	0.0	0.0	6.4	0.0	0.0	0.0
	3	0.0	0.0	49.3	0.0	0.0	0.0
	4	0.0	0.0	120.1	0.0	0.0	0.0



145	5		0.0	0.0	22.7	0.0	0.0	0.0
	1		0.0	0.0	37.0	0.0	0.0	0.0
	2		0.0	0.0	16.4	0.0	0.0	0.0
	3		0.0	0.0	125.9	0.0	0.0	0.0
	4		0.0	0.0	279.1	0.0	0.0	0.0
157	5		0.0	0.0	61.6	0.0	0.0	0.0
	1		0.0	0.0	29.6	0.0	0.0	0.0
	2		0.0	0.0	14.8	0.0	0.0	0.0
	3		0.0	0.0	102.1	0.0	0.0	0.0
	4		0.0	0.0	226.1	0.0	0.0	0.0
162	5		0.0	0.0	52.3	0.0	0.0	0.0
	1		0.0	0.0	3.7	0.0	0.0	0.0
	2		-1.6	0.0	9.7	0.0	0.0	0.0
	3		-2.3	0.0	42.0	0.0	0.0	0.0
	4		-2.6	0.0	83.8	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0

Normové deformace v uzlech

Uzel Kombi		X	Y	Z	Rx	Ry	Rz
		mm	mm	mm	rad	rad	rad
extremy	1.radek = minimim			2.radek = maximum			
posuv X							
7	3		0.0	0.0	-3.7	-0.0027	0.0014
209	3		1.0	0.0	-12.3	-0.0057	-0.0001
209			0.4				0.0012
posuv Y							
158	3		0.0	0.0	-0.2	0.0002	0.0000
167	3		0.0	0.0	-2.6	-0.0008	-0.0029
158			0.0				0.0000
posuv Z							
88	3		0.0	0.0	-27.9	0.0000	0.0012
18	3		0.0	0.0	3.0	-0.0004	0.0047
88					14.4		0.0000
rot X							
208	3		1.0	0.0	-6.0	-0.0082	0.0017
206	3		0.0	0.0	-12.4	0.0073	-0.0046
208						0.0044	0.0000
rot Y							
145	3		0.0	0.0	0.0	-0.0037	-0.0063
168	3		0.0	0.0	-4.7	0.0003	0.0064
168							0.0035
rot Z							
208	3		1.0	0.0	-6.0	-0.0082	0.0017
209	3		1.0	0.0	-12.3	-0.0057	-0.0001
208							0.0012
							0.0008

Vyhledano pro

Sled uzlu : 1..209

Sled kombinaci : 1..3

POSOUZENÍ PRŮŘEZŮ

Vypočtové napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 201	prurez	: 1	rez	: 0.00 [m]
1 16.00	3	-187.7		0.0	187.7
sigma max prut	: 201	prurez	: 1	rez	: 0.00 [m]
1 8.00	3	187.7		0.0	187.7



tau	prut	:	322	prurez	:	1	rez	:	0.80	[m]
1	4.50	3	-0.0				-37.7			37.7
sigma sr. prut	:	201	prurez	:	1	rez	:	0.00	[m]	
1	8.00	3	187.7				0.0			187.7

vyuziti prurezu : 89.4 % **IPE 500** VYHOVI !

Vyhledano pro

Prurez : 1

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	252	prurez	:	2	rez	:	1.45	[m]
1	16.00	3	-165.6			0.0			165.6
sigma max prut	:	252	prurez	:	2	rez	:	1.45	[m]
1	8.00	3	163.7			0.0			163.7
tau prut	:	295	prurez	:	2	rez	:	1.11	[m]
1	4.50	3	0.0			-39.9			39.9
sigma sr. prut	:	252	prurez	:	2	rez	:	1.45	[m]
1	16.00	3	-165.6			0.0			165.6

vyuziti prurezu : 78.9 % **IPE 550** VYHOVI !

Vyhledano pro

Prurez : 2

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	250	prurez	:	3	rez	:	1.45	[m]
1	16.00	3	-162.5			0.0			162.5
sigma max prut	:	250	prurez	:	3	rez	:	1.45	[m]
1	8.00	3	160.7			0.0			160.7
tau prut	:	303	prurez	:	3	rez	:	1.11	[m]
1	4.50	3	0.0			-36.4			36.4
sigma sr. prut	:	250	prurez	:	3	rez	:	1.45	[m]
1	16.00	3	-162.5			0.0			162.5

vyuziti prurezu : 77.4 % **IPE 600** VYHOVI !

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa

sigma min prut	:	115	prurez	:	4	rez	:	0.83	[m]
1	16.00	3	-148.8			0.0			148.8
sigma max prut	:	86	prurez	:	4	rez	:	0.00	[m]
1	9.00	3	146.8			0.0			146.8
tau prut	:	110	prurez	:	4	rez	:	0.00	[m]
1	4.50	3	0.0			30.7			30.7
sigma sr. prut	:	115	prurez	:	4	rez	:	0.83	[m]



1 16.00 3 -148.8 0.0 148.8

vyuziti prurezu : 70.9 % **IPE 220** VYHOVI !

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv.	Vlak.	Kom.	sigma x	tau	sig.srov.
			MPa	Mpa	Mpa

sigma min prut	:	294	prurez	:	5	rez	:	0.56 [m]
1 1.00 3		-119.9			0.0			119.9
sigma max prut	:	294	prurez	:	5	rez	:	0.56 [m]
1 8.00 3		119.9			0.0			119.9
tau prut	:	294	prurez	:	5	rez	:	1.11 [m]
1 4.50 3		0.0			-43.2			43.2
sigma sr. prut	:	294	prurez	:	5	rez	:	0.56 [m]
1 8.00 3		119.9			0.0			119.9

vyuziti prurezu : 57.1 % **IPE 100** VYHOVI !

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv.	Vlak.	Kom.	sigma x	tau	sig.srov.
			MPa	Mpa	Mpa

sigma min prut	:	212	prurez	:	6	rez	:	0.33 [m]
1 16.00 3		-164.4			0.0			164.4
sigma max prut	:	212	prurez	:	6	rez	:	0.33 [m]
1 8.00 3		164.4			0.0			164.4
tau prut	:	212	prurez	:	6	rez	:	0.00 [m]
1 12.50 3		0.0			42.2			42.2
sigma sr. prut	:	212	prurez	:	6	rez	:	0.33 [m]
1 8.00 3		164.4			0.0			164.4

vyuziti prurezu : 78.3 % **IPE 200** VYHOVI !

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv.	Vlak.	Kom.	sigma x	tau	sig.srov.
			MPa	Mpa	Mpa

sigma min prut	:	107	prurez	:	7	rez	:	0.00 [m]
1 16.00 3		-151.1			0.0			151.1
sigma max prut	:	76	prurez	:	7	rez	:	0.85 [m]
1 9.00 3		149.9			0.0			149.9
tau prut	:	104	prurez	:	7	rez	:	0.00 [m]
1 12.50 3		0.0			31.2			31.2
sigma sr. prut	:	107	prurez	:	7	rez	:	0.00 [m]
1 16.00 3		-151.1			0.0			151.1

vyuziti prurezu : 72.0 % **IPE 300** VYHOVI !



Vyhledano pro

Prurez : 7

Sled kombinaci : 1..3

Vypočtové napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	177	prurez :	8	rez :	0.83 [m]
1 2.00 3		-125.5			0.0	125.5
sigma max prut	:	177	prurez :	8	rez :	0.83 [m]
3 12.00 3		125.5			0.0	125.5
tau prut	:	171	prurez :	8	rez :	0.00 [m]
2 5.50 3		0.0			33.0	33.0
sigma sr. prut	:	177	prurez :	8	rez :	0.83 [m]
1 2.00 3		-125.5			0.0	125.5

vyuziti prurezu : 59.8 % **ISV 700/300/12/25** VYHOVI !

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..3

Vypočtové napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	25	prurez :	9	rez :	0.83 [m]
1 1.00 3		-129.8			0.0	129.8
sigma max prut	:	25	prurez :	9	rez :	0.83 [m]
3 11.00 3		129.8			0.0	129.8
tau prut	:	20	prurez :	9	rez :	0.00 [m]
2 7.50 3		0.0			40.6	40.6
sigma sr. prut	:	25	prurez :	9	rez :	0.83 [m]
3 11.00 3		129.8			0.0	129.8

vyuziti prurezu : 61.8 % **ISV 750/300/10/25** VYHOVI !

Vyhledano pro

Prurez : 9

Sled kombinaci : 1..3

Vypočtové napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	4	prurez :	10	rez :	0.65 [m]
1 8.00 3		-177.7			0.0	177.7
sigma max prut	:	4	prurez :	10	rez :	0.65 [m]
1 16.00 3		177.3			0.0	177.3
tau prut	:	4	prurez :	10	rez :	0.65 [m]
1 12.50 3		0.0			-43.7	43.7
sigma sr. prut	:	4	prurez :	10	rez :	0.65 [m]
1 8.00 3		-177.7			0.0	177.7

vyuziti prurezu : 84.6 % **IPE 500**VYHOVI !

Vyhledano pro

Prurez : 10

Sled kombinaci : 1..3



Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	10	prurez	:	11	rez	:	0.00 [m]
1 16.00	3	-143.2			0.0			143.2
sigma max prut	:	10	prurez	:	11	rez	:	0.00 [m]
1 8.00	3	142.8			0.0			142.8
tau prut	:	5	prurez	:	11	rez	:	0.00 [m]
1 4.50	3	-0.0			62.7			62.7
sigma sr. prut	:	10	prurez	:	11	rez	:	0.00 [m]
1 16.00	3	-143.2			0.0			143.2

vyuziti prurezu : 68.2 % **IPE 550** VYHOVI !

Vyhledano pro

Prurez : 11

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	170	prurez	:	12	rez	:	0.85 [m]
1 9.00	3	-147.2			0.0			147.2
sigma max prut	:	170	prurez	:	12	rez	:	0.85 [m]
1 1.00	3	146.0			0.0			146.0
tau prut	:	19	prurez	:	12	rez	:	0.85 [m]
1 12.50	3	0.0			-20.8			20.8
sigma sr. prut	:	170	prurez	:	12	rez	:	0.85 [m]
1 9.00	3	-147.2			0.0			147.2

vyuziti prurezu : 70.1 % **IPE 300** VYHOVI !

Vyhledano pro

Prurez : 12

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	164	prurez	:	13	rez	:	0.75 [m]
1 16.00	3	-125.3			0.0			125.3
sigma max prut	:	164	prurez	:	13	rez	:	0.75 [m]
1 8.00	3	124.7			0.0			124.7
tau prut	:	165	prurez	:	13	rez	:	0.75 [m]
1 4.50	3	0.0			-72.4			125.5
sigma sr. prut	:	165	prurez	:	13	rez	:	0.75 [m]
1 4.50	3	0.0			-72.4			125.5

vyuziti prurezu : 59.7 % **IPE 360** VYHOVI !

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
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		MPa		Mpa		Mpa
sigma min prut	:	123	prurez	:	14	rez : 0.65 [m]
1 16.00 3		-157.2			0.0	157.2
sigma max prut	:	123	prurez	:	14	rez : 0.65 [m]
1 8.00 3		155.3			0.0	155.3
tau prut	:	122	prurez	:	14	rez : 0.00 [m]
1 4.50 3		-0.0			32.7	32.7
sigma sr. prut	:	123	prurez	:	14	rez : 0.65 [m]
1 16.00 3		-157.2			0.0	157.2

vyuziti prurezu : 74.9 % **IPE 180** VYHOVI !

Vyhledano pro

Prurez : 14

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	:	269	prurez : 15 rez : 1.03 [m]
1 1.00 3		-185.9	0.0 185.9
sigma max prut	:	268	prurez : 15 rez : 1.03 [m]
1 8.00 3		185.9	0.0 185.9
tau prut	:	271	prurez : 15 rez : 2.05 [m]
1 12.50 3		0.0	-41.9 41.9
sigma sr. prut	:	268	prurez : 15 rez : 1.03 [m]
1 8.00 3		185.9	0.0 185.9

vyuziti prurezu : 88.5 % **IPE 120** VYHOVI !

Vyhledano pro

Prurez : 15

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	:	217	prurez : 16 rez : 1.00 [m]
1 1.00 3		-114.4	0.0 114.4
sigma max prut	:	207	prurez : 16 rez : 1.00 [m]
1 8.00 3		114.4	0.0 114.4
tau prut	:	207	prurez : 16 rez : 2.00 [m]
1 12.50 3		0.0	-32.5 32.5
sigma sr. prut	:	217	prurez : 16 rez : 1.00 [m]
1 1.00 3		-114.4	0.0 114.4

vyuziti prurezu : 54.5 % **IPE 160** VYHOVI !

Vyhledano pro

Prurez : 16

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	:	187	prurez : 17 rez : 0.30 [m]



1	8.00	3	-133.4		0.0		133.4
sigma max prut	:		188	prurez	:	17 rez	: 0.00 [m]
1	16.00	3	134.5		0.0		134.5
tau prut	:		188	prurez	:	17 rez	: 0.00 [m]
1	12.50	3	1.3		49.0		49.0
sigma sr. prut	:		188	prurez	:	17 rez	: 0.00 [m]
1	16.00	3	134.5		0.0		134.5

vyuziti prurezu : 64.1 % **IPE 270** VYHOVI !

Vyhledano pro

Prurez : 17

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	136	prurez	:	18 rez	:	0.85 [m]
1	1.00	3	-157.8		0.		
sigma max prut	:	136	prurez	:	18 rez	:	0.85 [m]
1	9.00	3	155.9		0.0		155.9
tau prut	:	134	prurez	:	18 rez	:	0.00 [m]
1	12.50	3	0.0		27.6		27.6
sigma sr. prut	:	136	prurez	:	18 rez	:	0.85 [m]
1	1.00	3	-157.8		0.0		157.8

vyuziti prurezu : 75.1 % **IPE 240** VYHOVI !

Vyhledano pro

Prurez : 18

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	251	prurez	:	19 rez	:	1.45 [m]
1	20.00	3	-187.6		0.0		187.6
sigma max prut	:	251	prurez	:	19 rez	:	1.45 [m]
1	10.00	3	184.7		0.0		184.7
tau prut	:	309	prurez	:	19 rez	:	1.11 [m]
1	5.50	3	0.0		-29.5		29.5
sigma sr. prut	:	251	prurez	:	19 rez	:	1.45 [m]
1	20.00	3	-187.6		0.0		187.6

vyuziti prurezu : 89.3 % **I 500** VYHOVI ! (STÁVAJÍCÍ)

Vyhledano pro

Prurez : 19

Sled kombinaci : 1..3



2.7 PLOŠINA +40,300 m

ZATÍŽENÍ

1. Zatěžovací stav

Vlastní tíha $\gamma = 1,35$

Generována počítačem

2. Zatěžovací stav

Zatížení stálé $\gamma = 1,35$

Podlaha z plechu POV8

$$gz1 = 0,65 \times 0,5 \times 0,95 + 0,3 = 0,608 \text{ kN/m}$$

$$gz2 = 0,65 \times 0,5 \times 1,3 + 0,3 = 0,722 \text{ kN/m}$$

$$gz3 = 0,65 \times 0,5 \times 0,74 + 0,3 = 0,54 \text{ kN/m}$$

$$gz4 = 0,65 \times 0,74 = 0,481 \text{ kN/m}$$

$$gz5 = 0,65 \times 0,5 \times (0,74 + 0,805) = 0,502 \text{ kN/m}$$

$$gz6 = 0,65 \times 0,5 \times 0,74 = 0,24 \text{ kN/m}$$

$$gz7 = 0,65 \times 0,805 = 0,523 \text{ kN/m}$$

$$gz8 = 0,65 \times 0,5 \times (0,89 + 0,805) = 0,551 \text{ kN/m}$$

$$gz9 = 0,65 \times 0,5 \times 0,89 = 0,289 \text{ kN/m}$$

$$gz10 = 0,65 \times 0,5 \times (0,865 + 0,805) = 0,523 \text{ kN/m}$$

$$gz11 = 0,65 \times 0,5 \times 0,865 = 0,281 \text{ kN/m}$$

$$gz12 = 0,65 \times 0,5 \times (0,865 + 0,81) = 0,544 \text{ kN/m}$$

$$gz13 = 0,65 \times 0,5 \times 0,81 + 0,3 = 0,563 \text{ kN/m}$$

$$gz14 = 0,65 \times 0,5 \times 0,275 = 0,089 \text{ kN/m}$$

$$gz15 = 0,65 \times 0,5 \times 0,675 = 0,219 \text{ kN/m}$$

$$gz16 = 0,65 \times 0,675 = 0,438 \text{ kN/m}$$

$$gz17 = 0,65 \times 0,5 \times (0,675 + 0,625) = 0,423 \text{ kN/m}$$

$$gz18 = 0,65 \times 0,625 = 0,406 \text{ kN/m}$$

$$gz19 = 0,65 \times 0,5 \times 0,625 + 0,3 = 0,503 \text{ kN/m}$$

$$gz20 = 0,65 \times 0,5 \times (0,75 + 0,625) = 0,447 \text{ kN/m}$$

$$gz21 = 0,65 \times 0,75 = 0,487 \text{ kN/m}$$

$$gz22 = 0,65 \times 0,5 \times (0,6125 + 0,625) = 0,402 \text{ kN/m}$$

$$gz23 = 0,65 \times 0,6125 = 0,398 \text{ kN/m}$$

$$gz24 = 0,65 \times 0,5 \times 0,6125 = 0,199 \text{ kN/m}$$

$$gz25 = 0,65 \times 0,5 \times 0,8 + 0,3 = 0,448 \text{ kN/m}$$

$$gz26 = 0,65 \times 0,5 \times 0,95 = 0,308 \text{ kN/m}$$

$$gz27 = 0,3 \text{ kN/m}$$

3. Zatěžovací stav

Zatížení stálé - rezerva $\gamma = 1,35$

$$g = 3,0 \text{ kN/m}^2$$

$$gz1 = 3,0 \times 0,5 \times 0,95 = 1,425 \text{ kN/m}$$

$$gz2 = 3,0 \times 0,5 \times 1,3 = 1,95 \text{ kN/m}$$

$$gz3 = 3,0 \times 0,5 \times 0,95 = 1,425 \text{ kN/m}$$

$$gz4 = 3,0 \times 0,5 \times 0,74 = 1,11 \text{ kN/m}$$

$$gz5 = 3,0 \times 0,74 = 2,22 \text{ kN/m}$$

$$gz6 = 3,0 \times 0,5 \times (0,74 + 0,805) = 2,317 \text{ kN/m}$$

$$gz7 = 3,0 \times 0,805 = 2,415 \text{ kN/m}$$

$$gz8 = 3,0 \times 0,5 \times (0,89 + 0,805) = 2,573 \text{ kN/m}$$

$$gz9 = 3,0 \times 0,5 \times 0,89 = 1,335 \text{ kN/m}$$

$$gz10 = 3,0 \times 0,5 \times (0,865 + 0,805) = 2,505 \text{ kN/m}$$

$$gz11 = 3,0 \times 0,5 \times 0,865 = 1,297 \text{ kN/m}$$

$$gz12 = 3,0 \times 0,5 \times (0,865 + 0,81) = 2,512 \text{ kN/m}$$

$$gz13 = 3,0 \times 0,5 \times 0,81 = 1,215 \text{ kN/m}$$

$$gz14 = 3,0 \times 0,5 \times 0,275 = 0,413 \text{ kN/m}$$

$$gz15 = 3,0 \times 0,5 \times 0,675 = 0,975 \text{ kN/m}$$

$$gz16 = 3,0 \times 0,675 = 2,025 \text{ kN/m}$$



$$\begin{aligned}g_{z17} &= 3,0 \times 0,5 \times (0,675 + 0,625) = 1,95 \text{ kN/m} \\g_{z18} &= 3,0 \times 0,625 = 1,875 \text{ kN/m} \\g_{z19} &= 3,0 \times 0,5 \times 0,625 = 0,967 \text{ kN/m} \\g_{z20} &= 3,0 \times 0,5 \times (0,75 + 0,625) = 2,063 \text{ kN/m} \\g_{z21} &= 3,0 \times 0,75 = 2,25 \text{ kN/m} \\g_{z22} &= 3,0 \times 0,5 \times (0,6125 + 0,625) = 1,856 \text{ kN/m} \\g_{z23} &= 3,0 \times 0,6125 = 1,837 \text{ kN/m} \\g_{z24} &= 3,0 \times 0,5 \times 0,6125 = 0,918 \text{ kN/m}\end{aligned}$$

4. Zatěžovací stav

Zatížení užité $\gamma = 1,5$

$$p = 10,0 \text{ kN/m}^2$$

$$\begin{aligned}g_{z1} &= 10,0 \times 0,5 \times 1,3 = 6,5 \text{ kN/m} \\g_{z2} &= 10,0 \times 0,5 \times 0,74 = 3,7 \text{ kN/m} \\g_{z3} &= 10,0 \times 0,74 = 7,4 \text{ kN/m} \\g_{z4} &= 10,0 \times 0,5 \times (0,74 + 0,805) = 7,725 \text{ kN/m} \\g_{z5} &= 10,0 \times 0,805 = 8,05 \text{ kN/m} \\g_{z6} &= 10,0 \times 0,5 \times (0,89 + 0,805) = 8,475 \text{ kN/m} \\g_{z7} &= 10,0 \times 0,5 \times 0,89 = 4,45 \text{ kN/m} \\g_{z8} &= 10,0 \times 0,5 \times (0,865 + 0,805) = 8,35 \text{ kN/m} \\g_{z9} &= 10,0 \times 0,5 \times 0,865 = 4,325 \text{ kN/m} \\g_{z10} &= 10,0 \times 0,5 \times (0,865 + 0,81) = 8,375 \text{ kN/m} \\g_{z11} &= 10,0 \times 0,5 \times 0,81 = 4,05 \text{ kN/m} \\g_{z12} &= 10,0 \times 0,5 \times 0,275 = 1,375 \text{ kN/m} \\g_{z13} &= 3,0 \times 0,5 \times 0,95 = 1,425 \text{ kN/m} \\g_{z14} &= 10,0 \times 0,5 \times 0,675 = 3,375 \text{ kN/m} \\g_{z15} &= 10,0 \times 0,675 = 6,75 \text{ kN/m} \\g_{z16} &= 10,0 \times 0,5 \times (0,675 + 0,625) = 6,5 \text{ kN/m} \\g_{z17} &= 10,0 \times 0,625 = 6,25 \text{ kN/m} \\g_{z18} &= 10,0 \times 0,5 \times 0,625 = 3,125 \text{ kN/m} \\g_{z19} &= 10,0 \times 0,5 \times (0,75 + 0,625) = 6,875 \text{ kN/m} \\g_{z20} &= 10,0 \times 0,75 = 7,5 \text{ kN/m} \\g_{z21} &= 10,0 \times 0,5 \times (0,6125 + 0,625) = 6,487 \text{ kN/m} \\g_{z22} &= 10,0 \times 0,6125 = 6,125 \text{ kN/m} \\g_{z23} &= 10,0 \times 0,5 \times 0,6125 = 3,063 \text{ kN/m} \\g_{z24} &= 3,0 \times 0,5 \times 0,8 = 1,2 \text{ kN/m}\end{aligned}$$

5. Zatěžovací stav

Zatížení technologií $\gamma = 1,5$

$$Q = 60 \text{ kN}$$

$$g_{z1} = 60,0 / 2 \times 6 = 5,0 \text{ kN/m}$$

TVAR KONSTRUKCE

U Z L Y

uzel	X[m]	Y[m]	Z[m]	typ
1	0.0000	0.0000	0.0000	
2	0.3330	0.0000	0.0000	
3	3.5000	0.0000	0.0000	
4	0.3330	0.2540	0.0000	
5	0.3330	1.2060	0.0000	
6	0.0000	3.9500	1.7000	
7	0.0000	11.4500	1.7000	
8	0.0000	14.5400	1.7000	
9	0.0000	15.7000	1.7000	
10	0.0000	16.6150	1.7000	
11	0.0000	18.0650	1.7000	
12	0.0000	21.2150	1.7000	



13	0.0000	22.6650	1.7000
14	0.0000	24.7400	1.7000
15	0.0000	25.7000	1.7000
16	0.0000	29.9500	1.7000
17	0.0000	37.4500	1.7000
18	0.0000	41.4000	0.0000
19	0.3330	3.9500	1.7000
20	0.3330	11.4500	1.7000
21	0.3330	25.7000	1.7000
22	0.3330	29.9500	1.7000
23	0.3330	37.4500	1.7000
24	0.3330	37.9660	1.7000
25	0.3330	40.2700	0.0000
26	0.3330	41.0700	0.0000
27	1.2840	1.2060	0.0000
28	1.2840	3.9500	1.7000
29	1.2840	11.4500	1.7000
30	1.2840	14.5400	1.7000
31	1.2840	24.7400	1.7000
32	1.2840	25.7000	1.7000
33	1.2840	29.9500	1.7000
34	1.2840	37.4500	1.7000
35	1.2840	37.9660	1.7000
36	1.2840	40.2700	0.0000
37	0.3330	41.4000	0.0000
38	1.2840	41.0700	0.0000
39	4.0000	41.4000	0.0000
40	4.7930	40.2700	-2.6000
41	4.7930	41.0700	-2.6000
42	1.2840	0.2540	0.0000
43	4.7930	0.2540	-2.6000
44	4.7930	1.2060	-2.6000
45	0.7390	14.5400	1.7000
46	1.4770	14.5400	1.7000
47	2.2150	14.5400	1.7000
48	3.0200	14.5400	1.7000
49	3.8250	14.5400	1.7000
50	4.7150	14.5400	1.7000
51	5.5200	14.5400	1.7000
52	6.3250	14.5400	1.7000
53	7.1900	14.5400	1.7000
54	0.7390	16.6150	1.7000
55	1.4770	16.6150	1.7000
56	2.2150	16.6150	1.7000
57	3.0200	16.6150	1.7000
58	3.8250	16.6150	1.7000
59	4.7150	16.6150	1.7000
60	5.5200	16.6150	1.7000
61	6.3250	16.6150	1.7000
62	7.1900	16.6150	1.7000
63	0.7390	18.0650	1.7000
64	1.4770	18.0650	1.7000
65	2.2150	18.0650	1.7000
66	3.0200	18.0650	1.7000
67	3.8250	18.0650	1.7000
68	4.7150	18.0650	1.7000
69	5.5200	18.0650	1.7000
70	6.3250	18.0650	1.7000
71	7.1900	18.0650	1.7000
72	0.7390	21.2150	1.7000



73	1.4770	21.2150	1.7000
74	2.2150	21.2150	1.7000
75	3.0200	21.2150	1.7000
76	3.8250	21.2150	1.7000
77	4.7150	21.2150	1.7000
78	5.5200	21.2150	1.7000
79	6.3250	21.2150	1.7000
80	7.1900	21.2150	1.7000
81	0.7390	22.6650	1.7000
82	1.4770	22.6650	1.7000
83	2.2150	22.6650	1.7000
84	3.0200	22.6650	1.7000
85	3.8250	22.6650	1.7000
86	4.7150	22.6650	1.7000
87	5.5200	22.6650	1.7000
88	6.3250	22.6650	1.7000
89	7.1900	22.6650	1.7000
90	1.4770	24.7400	1.7000
91	2.2150	24.7400	1.7000
92	3.0200	24.7400	1.7000
93	3.8250	24.7400	1.7000
94	4.7150	24.7400	1.7000
95	5.5200	24.7400	1.7000
96	6.3250	24.7400	1.7000
97	7.1900	24.7400	1.7000
98	2.2150	16.8900	1.7000
99	2.2150	17.7900	1.7000
100	2.2150	21.4900	1.7000
101	2.2150	22.3900	1.7000
102	3.8250	16.8900	1.7000
103	3.8250	17.7900	1.7000
104	3.8250	21.4900	1.7000
105	3.8250	22.3900	1.7000
106	4.7150	16.8900	1.7000
107	4.7150	17.7900	1.7000
108	4.7150	21.4900	1.7000
109	4.7150	22.3900	1.7000
110	6.3250	16.8900	1.7000
111	6.3250	17.7900	1.7000
112	6.3250	21.4900	1.7000
113	6.3250	22.3900	1.7000
114	8.0000	11.4500	1.7000
115	8.0000	14.5400	1.7000
116	8.0000	15.7000	1.7000
117	8.0000	16.6150	1.7000
118	8.0000	18.0650	1.7000
119	8.0000	21.2150	1.7000
120	8.0000	22.6650	1.7000
121	8.0000	24.7400	1.7000
122	8.0000	25.7000	1.7000
123	0.3330	33.5000	1.7000
124	1.2840	33.5000	1.7000
125	1.5140	33.5000	1.7000
126	2.4660	33.5000	1.7000
127	0.7390	24.7400	1.7000
128	1.5140	34.4000	1.7000
129	1.5140	39.1500	4.0700
130	1.5140	40.0500	4.0700
131	2.4660	34.4000	1.7000
132	2.4660	39.1500	4.0700



AFŘY CZ s.r.o.

Modernizace teplárny Mladá Boleslav

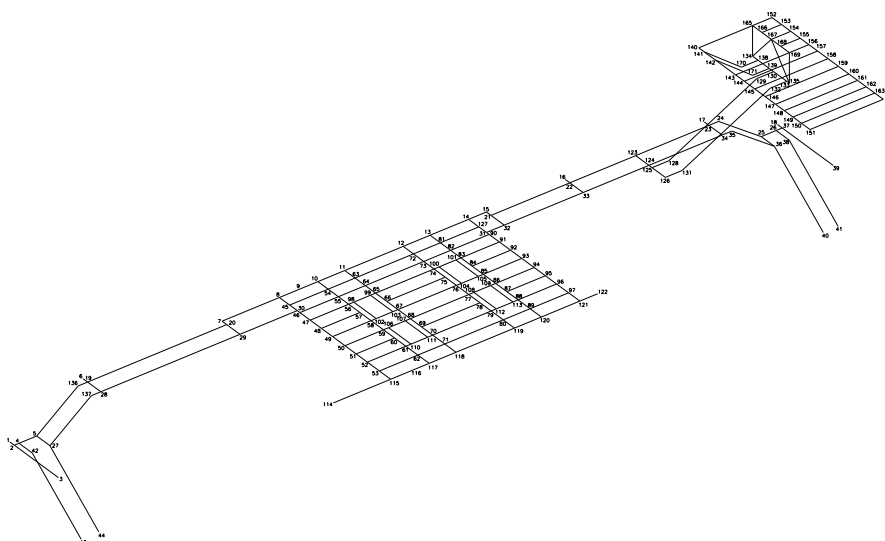
Dokumentace pro vydání stavebního povolení

Datum: 12/2023

SO 203 – Úpravy kotelny K 80/K90 - OK

Revize 0

133	2.4630	40.0500	4.0700
134	0.0000	40.0500	4.0700
135	2.6500	40.0500	4.0700
136	0.3330	3.4340	1.7000
137	1.2840	3.4340	1.7000
138	0.4000	40.0500	4.0700
139	1.2000	40.0500	4.0700
140	0.0000	37.1500	5.6500
141	0.4000	37.1500	5.6500
142	1.2000	37.1500	5.6500
143	2.6500	37.1500	5.6500
144	3.2750	37.1500	5.6500
145	4.0250	37.1500	5.6500
146	4.7750	37.1500	5.6500
147	5.5250	37.1500	5.6500
148	6.1500	37.1500	5.6500
149	6.7750	37.1500	5.6500
150	7.3875	37.1500	5.6500
151	8.0000	37.1500	5.6500
152	0.0000	41.1000	5.6500
153	0.6750	41.1000	5.6500
154	1.3500	41.1000	5.6500
155	2.0250	41.1000	5.6500
156	2.6500	41.1000	5.6500
157	3.2750	41.1000	5.6500
158	4.0250	41.1000	5.6500
159	4.7750	41.1000	5.6500
160	5.5250	41.1000	5.6500
161	6.1500	41.1000	5.6500
162	6.7750	41.1000	5.6500
163	7.3875	41.1000	5.6500
164	8.0000	41.1000	5.6500
165	0.0000	40.0500	5.6500
166	0.6750	40.0500	5.6500
167	1.3500	40.0500	5.6500
168	2.0250	40.0500	5.6500
169	2.6500	40.0500	5.6500
170	0.4000	39.1500	4.0700
171	1.2000	39.1500	4.0700



P R U T Y



prut	zac	konec	delka [m]	prurez	typ
1	1	2	0.3330	1	
2	2	3	3.1670	1	
3	136	19	0.5160	3	
4	4	42	0.9510	2	
5	42	43	4.3673	2	
6	5	27	0.9510	2	
7	27	44	4.3673	2	
8	2	4	0.2540	3	
9	4	5	0.9520	3	
10	5	136	2.8025	3	
11	19	20	7.5000	4	
12	27	137	2.8025	2	
13	28	29	7.5000	4	
14	29	30	3.0900	4	
15	6	19	0.3330	6	
16	19	28	0.9510	6	
17	7	20	0.3330	7	
18	20	29	0.9510	7	
19	7	8	3.0900	15	
20	8	9	1.1600	15	
21	9	10	0.9150	8	
22	10	11	1.4500	8	
23	11	12	3.1500	8	
24	12	13	1.4500	8	
25	13	14	2.0750	8	
26	14	15	0.9600	8	
27	114	115	3.0900	15	
28	115	116	1.1600	15	
29	116	117	0.9150	8	
30	117	118	1.4500	8	
31	118	119	3.1500	8	
32	119	120	1.4500	8	
33	120	121	2.0750	8	
34	121	122	0.9600	8	
35	8	45	0.7390	9	
36	45	30	0.5450	9	
37	30	46	0.1930	9	
38	46	47	0.7380	9	
39	47	48	0.8050	9	
40	48	49	0.8050	9	
41	49	50	0.8900	9	
42	50	51	0.8050	9	
43	51	52	0.8050	9	
44	52	53	0.8650	9	
45	53	115	0.8100	9	
46	137	28	0.5160	2	
47	134	138	0.4000	14	
48	130	133	0.9490	14	
49	133	135	0.1870	14	
50	10	54	0.7390	10	
51	54	55	0.7380	10	
52	55	56	0.7380	10	
53	56	57	0.8050	10	
54	57	58	0.8050	10	
55	58	59	0.8900	10	
56	59	60	0.8050	10	
57	60	61	0.8050	10	
58	61	62	0.8650	10	



59	62	117	0.8100	10
60	11	63	0.7390	10
61	63	64	0.7380	10
62	64	65	0.7380	10
63	65	66	0.8050	10
64	66	67	0.8050	10
65	67	68	0.8900	10
66	68	69	0.8050	10
67	69	70	0.8050	10
68	70	71	0.8650	10
69	71	118	0.8100	10
70	12	72	0.7390	10
71	72	73	0.7380	10
72	73	74	0.7380	10
73	74	75	0.8050	10
74	75	76	0.8050	10
75	76	77	0.8900	10
76	77	78	0.8050	10
77	78	79	0.8050	10
78	79	80	0.8650	10
79	80	119	0.8100	10
80	13	81	0.7390	10
81	81	82	0.7380	10
82	82	83	0.7380	10
83	83	84	0.8050	10
84	84	85	0.8050	10
85	85	86	0.8900	10
86	86	87	0.8050	10
87	87	88	0.8050	10
88	88	89	0.8650	10
89	89	120	0.8100	10
90	14	127	0.7390	9
91	127	31	0.5450	9
92	31	90	0.1930	9
93	90	91	0.7380	9
94	91	92	0.8050	9
95	92	93	0.8050	9
96	93	94	0.8900	9
97	94	95	0.8050	9
98	95	96	0.8050	9
99	96	97	0.8650	9
100	97	121	0.8100	9
101	45	54	2.0750	11
102	46	55	2.0750	11
103	47	56	2.0750	11
104	48	57	2.0750	11
105	49	58	2.0750	11
106	50	59	2.0750	11
107	51	60	2.0750	11
108	52	61	2.0750	11
109	53	62	2.0750	11
110	54	63	1.4500	11
111	55	64	1.4500	11
112	56	98	0.2750	11
113	98	99	0.9000	11
114	99	65	0.2750	11
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116	102	103	0.9000	11
117	103	67	0.2750	11
118	59	106	0.2750	11



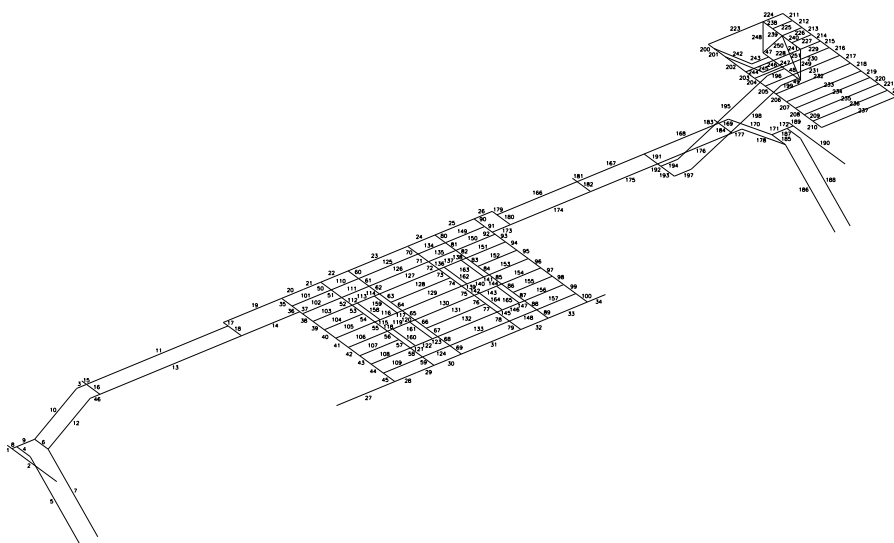
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120	107	68	0.2750	11
121	61	110	0.2750	11
122	110	111	0.9000	11
123	111	70	0.2750	11
124	62	71	1.4500	11
125	63	72	3.1500	28
126	64	73	3.1500	28
127	65	74	3.1500	28
128	66	75	3.1500	28
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130	68	77	3.1500	28
131	69	78	3.1500	28
132	70	79	3.1500	28
133	71	80	3.1500	28
134	72	81	1.4500	11
135	73	82	1.4500	11
136	74	100	0.2750	11
137	100	101	0.9000	11
138	101	83	0.2750	11
139	76	104	0.2750	11
140	104	105	0.9000	11
141	105	85	0.2750	11
142	77	108	0.2750	11
143	108	109	0.9000	11
144	109	86	0.2750	11
145	79	112	0.2750	11
146	112	113	0.9000	11
147	113	88	0.2750	11
148	80	89	1.4500	11
149	81	127	2.0750	11
150	82	90	2.0750	11
151	83	91	2.0750	11
152	84	92	2.0750	11
153	85	93	2.0750	11
154	86	94	2.0750	11
155	87	95	2.0750	11
156	88	96	2.0750	11
157	89	97	2.0750	11
158	98	102	1.6100	12
159	99	103	1.6100	12
160	106	110	1.6100	12
161	107	111	1.6100	12
162	100	104	1.6100	12
163	101	105	1.6100	12
164	108	112	1.6100	12
165	109	113	1.6100	12
166	21	22	4.2500	4
167	22	123	3.5500	5
168	123	23	3.9500	5
169	23	24	0.5160	3
170	24	25	2.8633	3
171	25	26	0.8000	3
172	26	37	0.3300	3
173	31	32	0.9600	4
174	32	33	4.2500	4
175	33	124	3.5500	16
176	124	34	3.9500	16
177	34	35	0.5160	2
178	35	36	2.8633	2



179	15	21	0.3330	7
180	21	32	0.9510	7
181	16	22	0.3330	6
182	22	33	0.9510	6
183	17	23	0.3330	6
184	23	34	0.9510	6
185	25	36	0.9510	3
186	36	40	4.3673	3
187	26	38	0.9510	2
188	38	41	4.3673	2
189	18	37	0.3330	1
190	37	39	3.6670	1
191	123	124	0.9510	13
192	124	125	0.2300	13
193	125	126	0.9520	13
194	125	128	0.9000	17
195	128	129	5.3084	17
196	129	130	0.9000	17
197	126	131	0.9000	17
198	131	132	5.3084	17
199	132	133	0.9000	17
200	140	141	0.4000	23
201	141	142	0.8000	23
202	142	143	1.4500	23
203	143	144	0.6250	23
204	144	145	0.7500	23
205	145	146	0.7500	23
206	146	147	0.7500	23
207	147	148	0.6250	23
208	148	149	0.6250	23
209	149	150	0.6125	23
210	150	151	0.6125	23
211	152	153	0.6750	22
212	153	154	0.6750	22
213	154	155	0.6750	22
214	155	156	0.6250	22
215	156	157	0.6250	22
216	157	158	0.7500	22
217	158	159	0.7500	22
218	159	160	0.7500	22
219	160	161	0.6250	22
220	161	162	0.6250	22
221	162	163	0.6125	22
222	163	164	0.6125	22
223	140	165	2.9000	21
224	165	152	1.0500	21
225	166	153	1.0500	20
226	167	154	1.0500	20
227	168	155	1.0500	20
228	143	169	2.9000	19
229	169	156	1.0500	19
230	144	157	3.9500	18
231	145	158	3.9500	18
232	146	159	3.9500	18
233	147	160	3.9500	18
234	148	161	3.9500	18
235	149	162	3.9500	18
236	150	163	3.9500	18
237	151	164	3.9500	18
238	165	166	0.6750	26

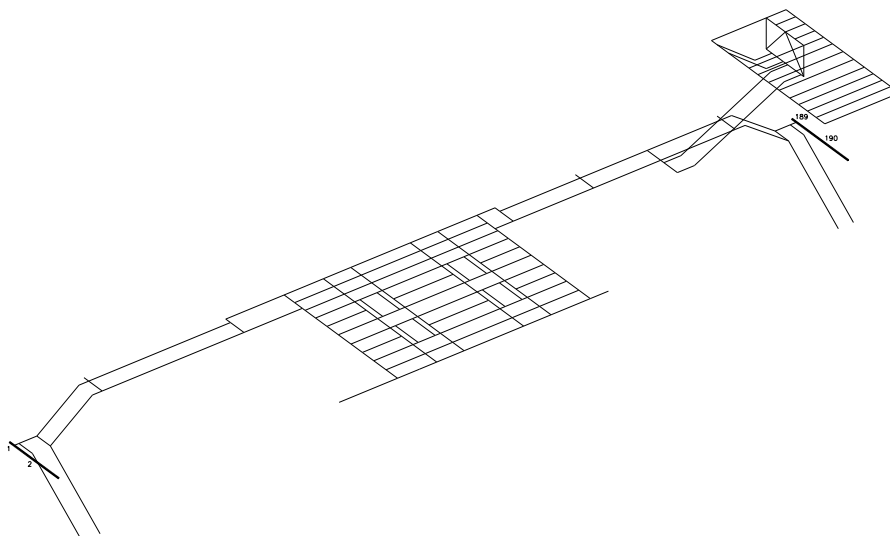


239	166	167	0.6750	26
240	167	168	0.6750	26
241	168	169	0.6250	26
242	141	170	2.5488	27
243	170	138	0.9000	27
244	142	171	2.5488	27
245	171	139	0.9000	27
246	138	139	0.8000	14
247	139	130	0.3140	14
248	134	165	1.5800	24
249	135	169	1.5800	24
250	134	167	2.0782	25
251	135	167	2.0461	25



P R U R E Z Y - charakteristiky

PRUREZ c. 1 (UPE)	rotace prurezu Rx[st] = 0.00
plocha A[m2] = 3.54578E-03	mom.setr. Ix[m4] = 9.91000E-08
mom.setr. Iy[m4] = 4.21676E-05	mom.setr. Iz[m4] = 3.21885E-06
mom.setr. Iw[m8] = 3.75408E-08	
Prvek 1 UPE 270	ocel 37
poloha teziste Y = 28.13	Z = -135.00



PRUREZ c. 2 (UPE)

plocha A[m2] = 2.35675E-03

mom.setr. Iy[m4] = 1.54319E-05

mom.setr. Iw[m8] = 8.64595E-09

Prvek 1 UPE 200

poloha teziste Y = 23.24

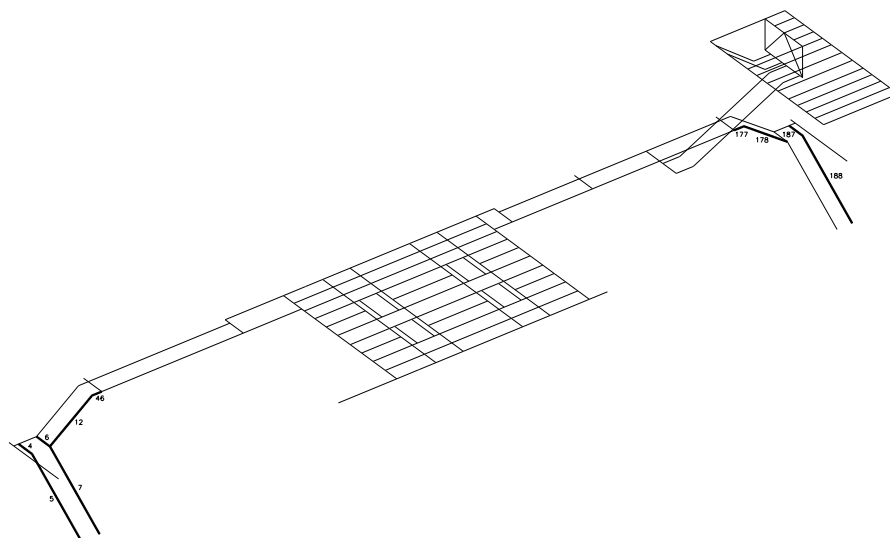
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 4.91000E-08

mom.setr. Iz[m4] = 1.37253E-06

ocel 37

Z = -100.00



PRUREZ c. 3 (UPE)

plocha A[m2] = 2.35675E-03

mom.setr. Iy[m4] = 1.54319E-05

mom.setr. Iw[m8] = 8.64595E-09

Prvek 1 UPE 200

poloha teziste Y = 23.24

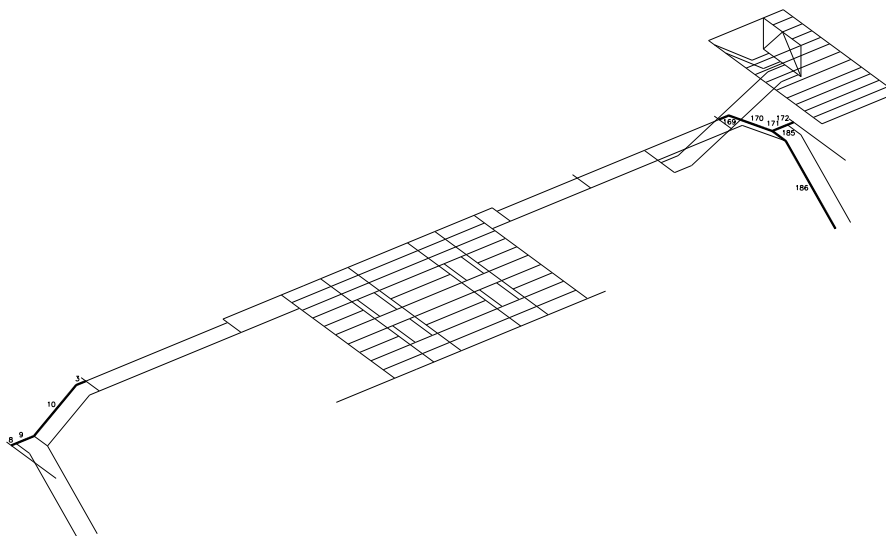
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 4.91000E-08

mom.setr. Iz[m4] = 1.37253E-06

ocel 37

Z = -100.00



PRUREZ c. 4 (UPE)

plocha A[m2] = 2.69033E-03

mom.setr. Iy[m4] = 2.13770E-05

mom.setr. Iw[m8] = 1.40112E-08

Prvek 1 UPE 220

poloha teziste Y = 24.97

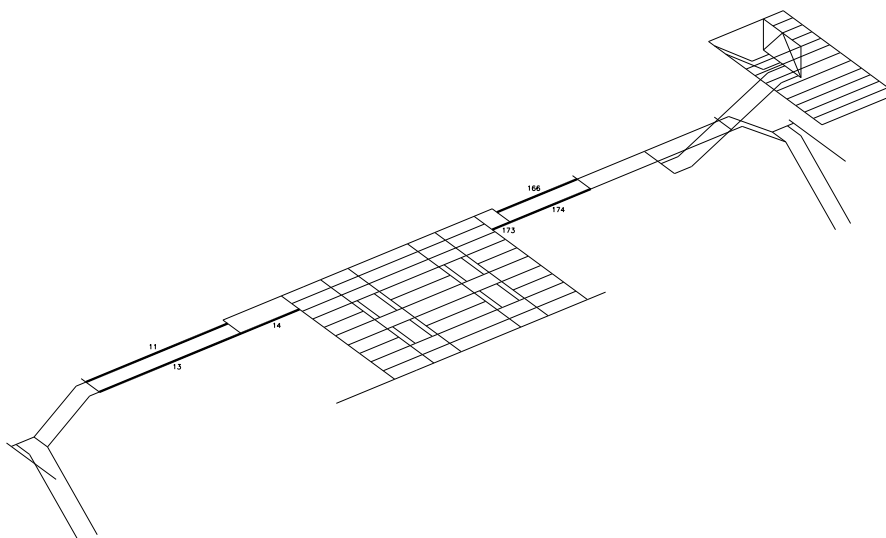
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 6.21000E-08

mom.setr. Iz[m4] = 1.82839E-06

ocel 37

Z = -110.00



PRUREZ c. 5 (UPE)

plocha A[m2] = 3.54578E-03

mom.setr. Iy[m4] = 4.21676E-05

mom.setr. Iw[m8] = 3.75408E-08

Prvek 1 UPE 270

poloha teziste Y = 28.13

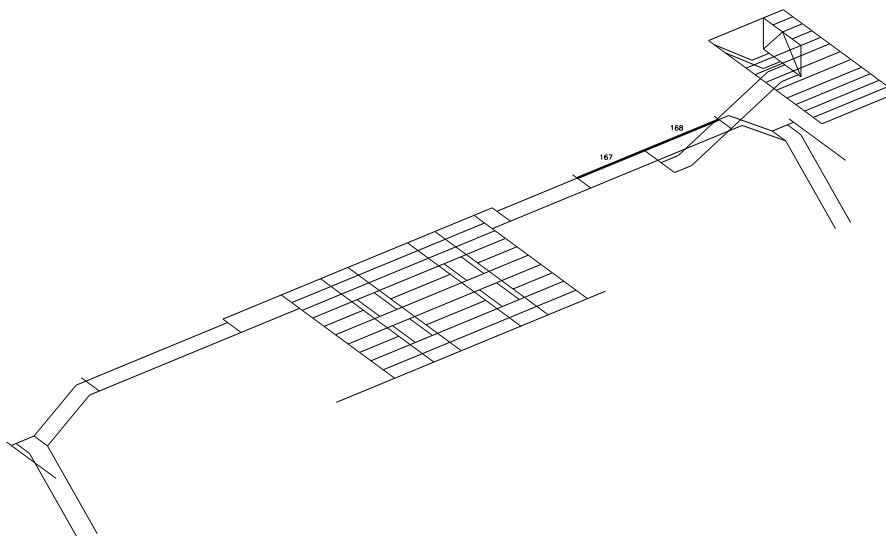
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 9.91000E-08

mom.setr. Iz[m4] = 3.21885E-06

ocel 37

Z = -135.00



PRUREZ c. 6 (HE-A)

plocha A[m2] = 7.71889E-03

mom.setr. Iy[m4] = 7.79542E-05

mom.setr. Iw[m8] = 3.28486E-07

Prvek 1 HE-A 240

poloha teziste Y = 120.00

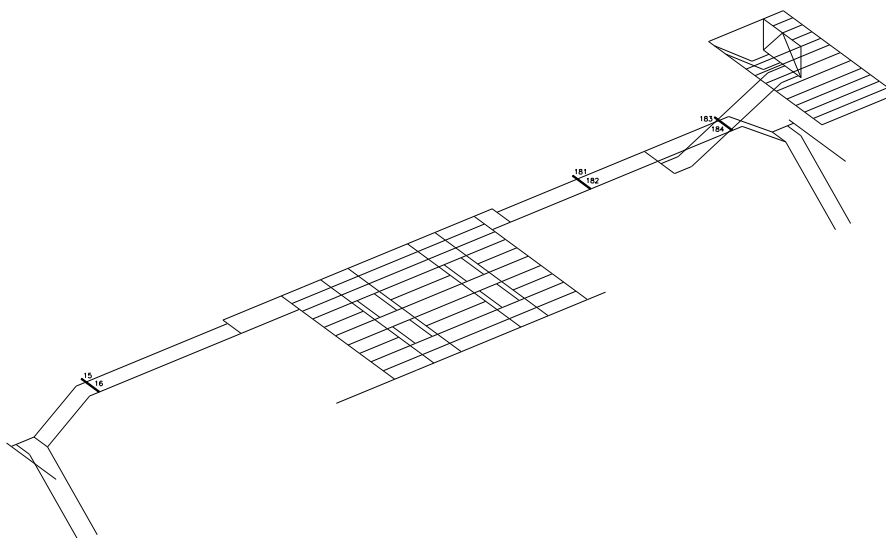
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.96113E-07

mom.setr. Iz[m4] = 2.76941E-05

ocel 37

Z = -115.00



PRUREZ c. 7 (HE-A)

plocha A[m2] = 8.72809E-03

mom.setr. Iy[m4] = 1.05048E-04

mom.setr. Iw[m8] = 5.16352E-07

Prvek 1 HE-A 260

poloha teziste Y = 130.00

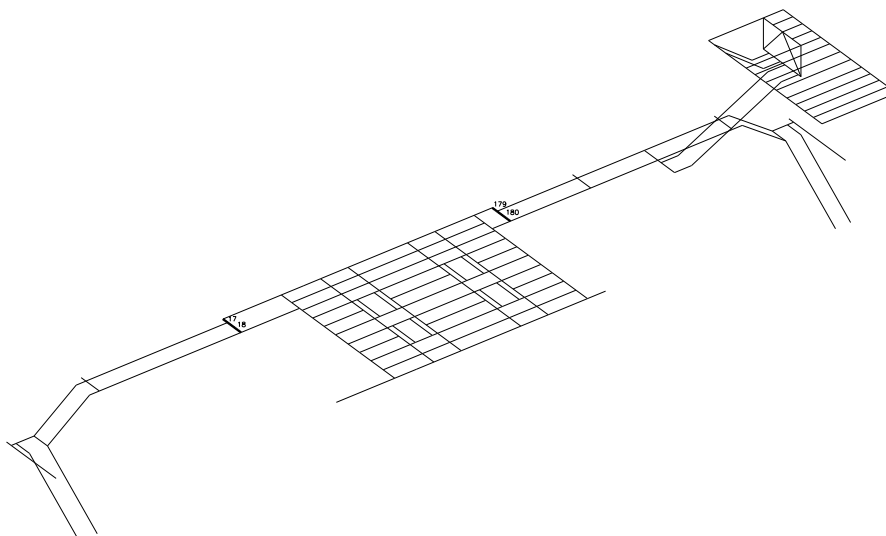
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.59306E-07

mom.setr. Iz[m4] = 3.66853E-05

ocel 37

Z = -125.00



PRUREZ c. 8 (HE-B)

plocha A[m2] = 2.70542E-02

mom.setr. Iy[m4] = 1.71437E-03

mom.setr. Iw[m8] = 1.09654E-05

Prvek 1 HE-B 600

poloha teziste Y = 150.00

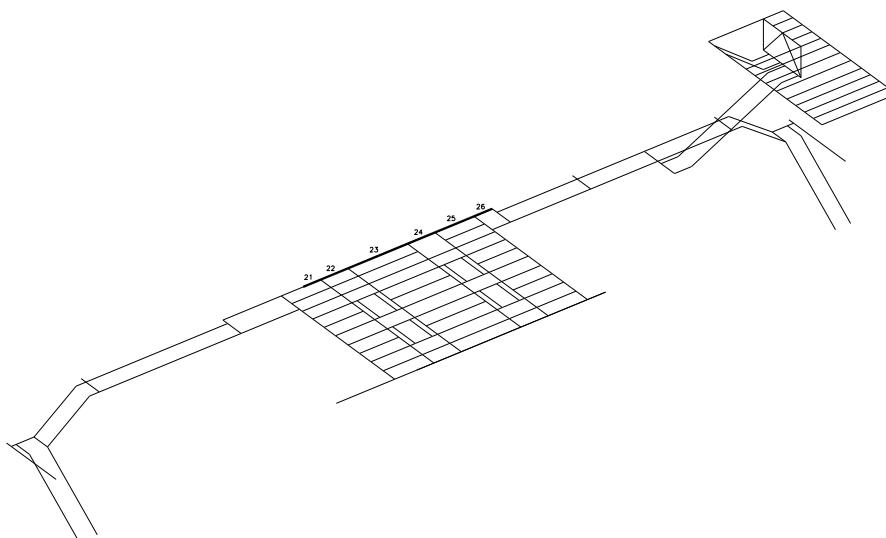
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.72081E-06

mom.setr. Iz[m4] = 1.35325E-04

ocel 37

Z = -300.00



PRUREZ c. 9 (IPE)

plocha A[m2] = 8.48169E-03

mom.setr. Iy[m4] = 2.32415E-04

mom.setr. Iw[m8] = 4.90048E-07

Prvek 1 IPE 400

poloha teziste Y = 90.00

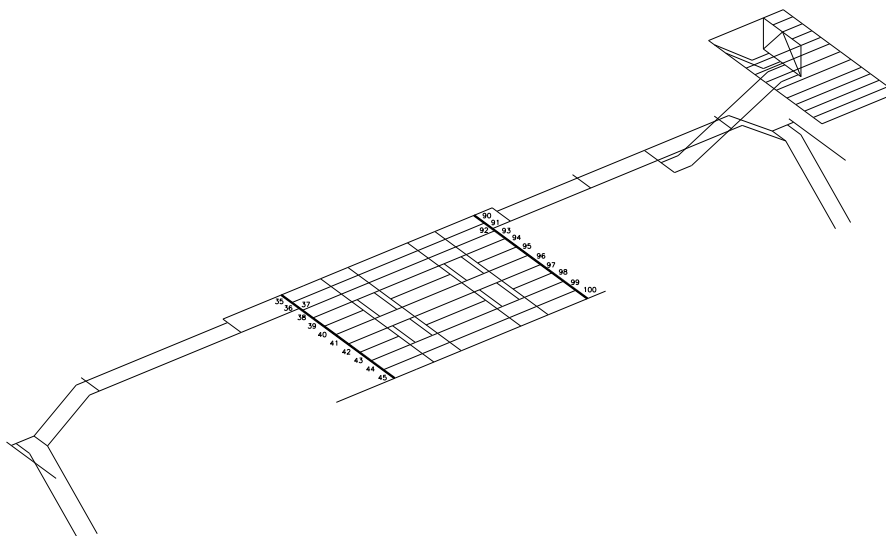
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 5.14000E-07

mom.setr. Iz[m4] = 1.31848E-05

ocel 37

Z = -200.00



PRUREZ c. 10 (HE-A)

plocha A[m2] = 1.59562E-02

mom.setr. Iy[m4] = 4.52309E-04

mom.setr. Iw[m8] = 2.94208E-06

Prvek 1 HE-A 400

poloha teziste Y = 150.00

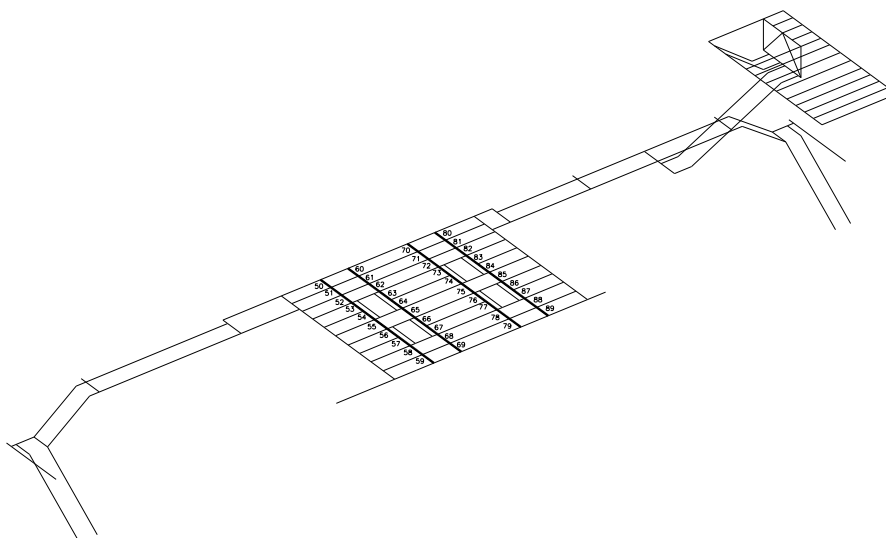
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.47046E-06

mom.setr. Iz[m4] = 8.56560E-05

ocel 37

Z = -195.00



PRUREZ c. 11 (IPE)

plocha A[m2] = 1.32495E-03

mom.setr. Iy[m4] = 3.18782E-06

mom.setr. Iw[m8] = 8.89591E-10

Prvek 1 IPE 120

poloha teziste Y = 32.00

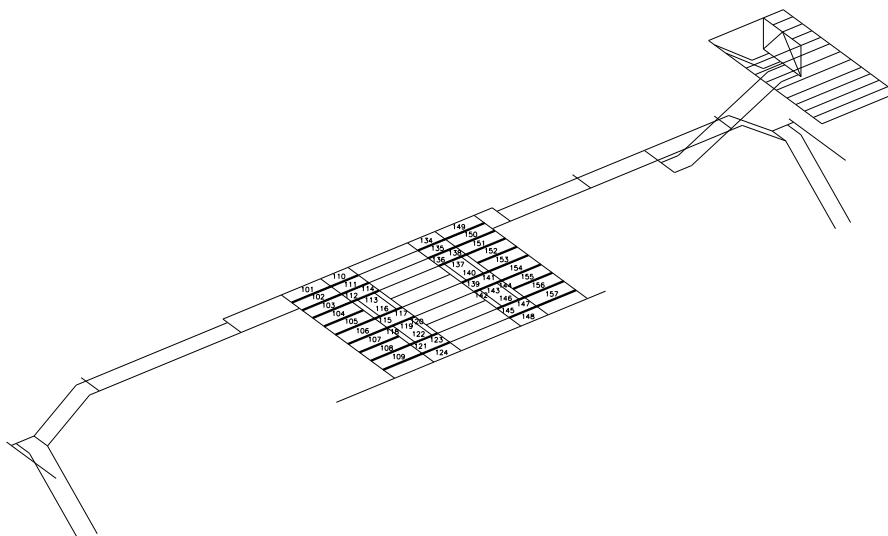
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.70000E-08

mom.setr. Iz[m4] = 2.76789E-07

ocel 37

Z = -60.00



PRUREZ c. 12 (UPE)

plocha A[m2] = 1.08719E-03

mom.setr. Iy[m4] = 1.73306E-06

mom.setr. Iw[m8] = 3.31313E-10

Prvek 1 UPE 100

poloha teziste Y = 15.33

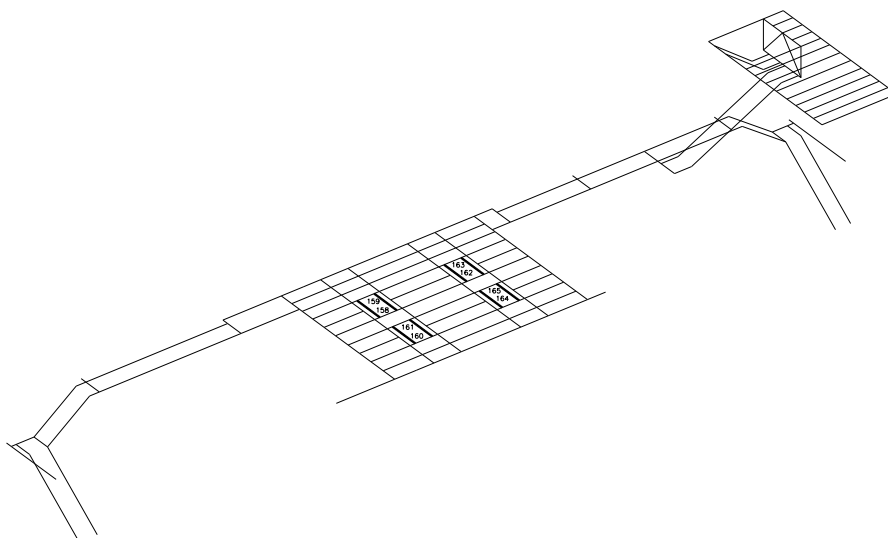
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.62000E-08

mom.setr. Iz[m4] = 2.28325E-07

ocel 37

Z = -50.00



PRUREZ c. 13 (HE-A)

plocha A[m2] = 8.72809E-03

mom.setr. Iy[m4] = 1.05048E-04

mom.setr. Iw[m8] = 5.16352E-07

Prvek 1 HE-A 260

poloha teziste Y = 130.00

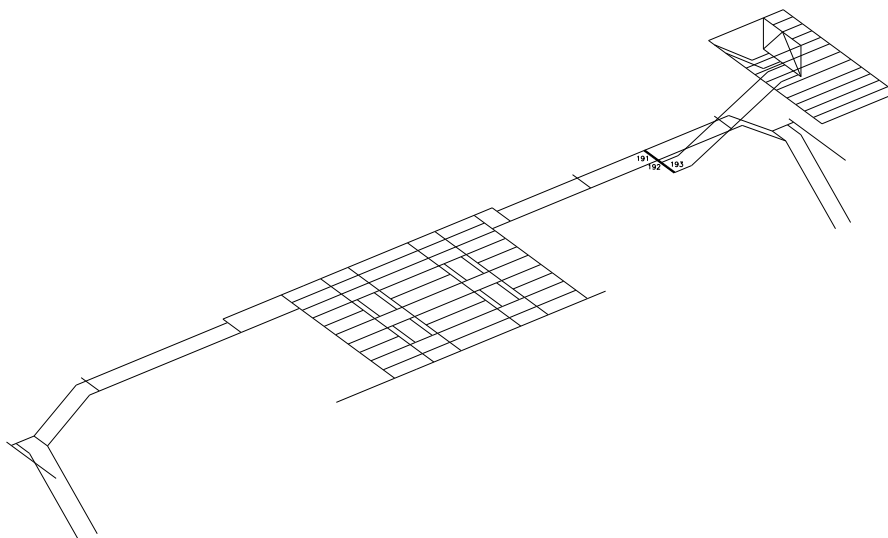
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.59306E-07

mom.setr. Iz[m4] = 3.66853E-05

ocel 37

Z = -125.00



PRUREZ c. 14 (HE-A)

plocha A[m2] = 7.71889E-03

mom.setr. Iy[m4] = 7.79542E-05

mom.setr. Iw[m8] = 3.28486E-07

Prvek 1 HE-A 240

poloha teziste Y = 120.00

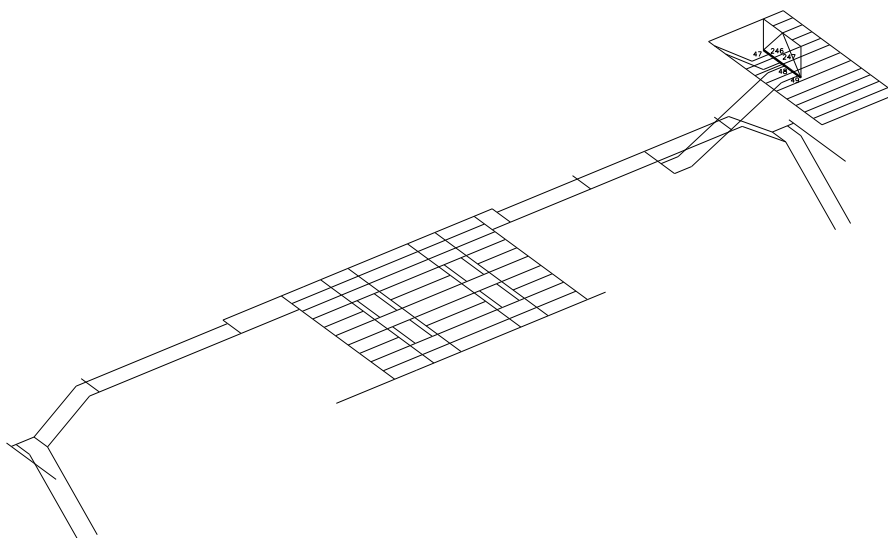
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.96113E-07

mom.setr. Iz[m4] = 2.76941E-05

ocel 37

Z = -115.00



PRUREZ c. 15 (IPE)

plocha A[m2] = 7.29888E-03

mom.setr. Iy[m4] = 1.63327E-04

mom.setr. Iw[m8] = 3.13580E-07

Prvek 1 IPE 360

poloha teziste Y = 85.00

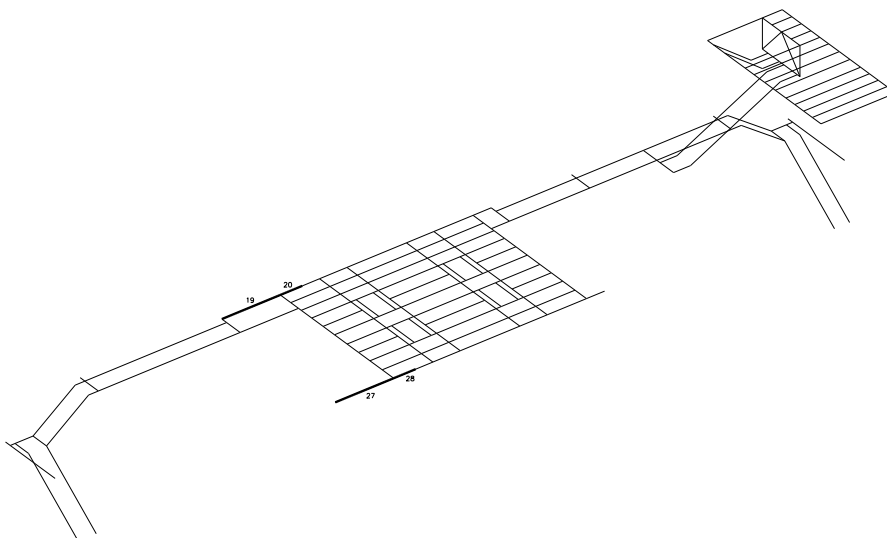
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.80000E-07

mom.setr. Iz[m4] = 1.04382E-05

ocel 37

Z = -180.00



PRUREZ c. 16 (HE-A)

plocha A[m2] = 8.72809E-03

mom.setr. Iy[m4] = 1.05048E-04

mom.setr. Iw[m8] = 5.16352E-07

Prvek 1 HE-A 260

poloha teziste Y = 130.00

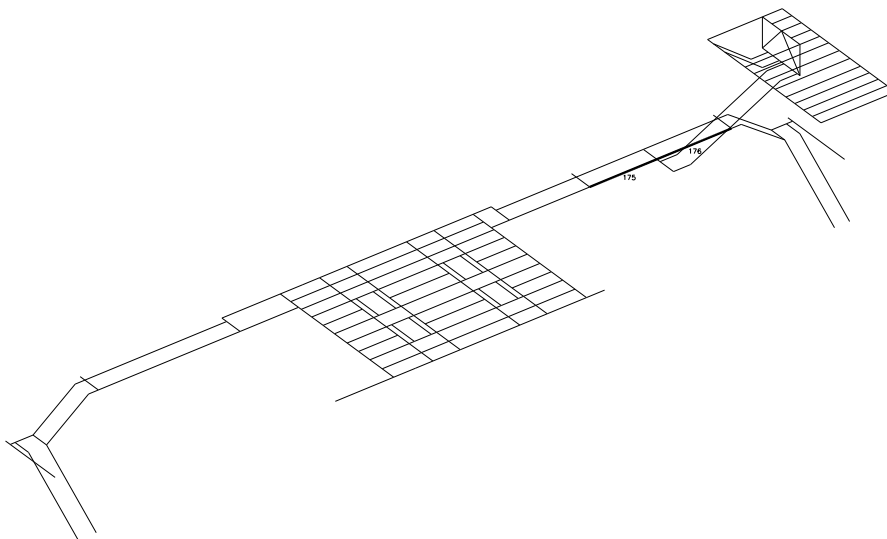
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.59306E-07

mom.setr. Iz[m4] = 3.66853E-05

ocel 37

Z = -125.00



PRUREZ c. 17 (UPE)

plocha A[m2] = 4.07457E-03

mom.setr. Iy[m4] = 5.88499E-05

mom.setr. Iw[m8] = 5.83077E-08

Prvek 1 UPE 300

poloha teziste Y = 28.59

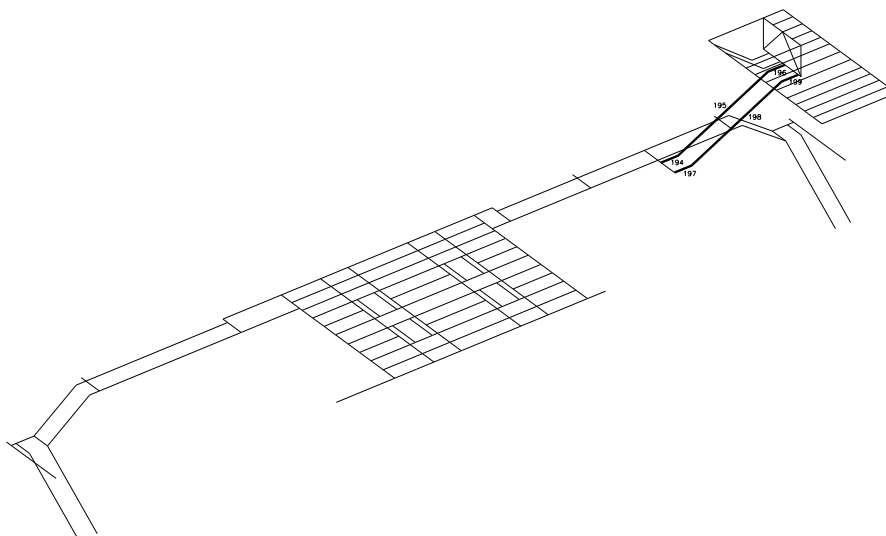
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.24000E-07

mom.setr. Iz[m4] = 4.03393E-06

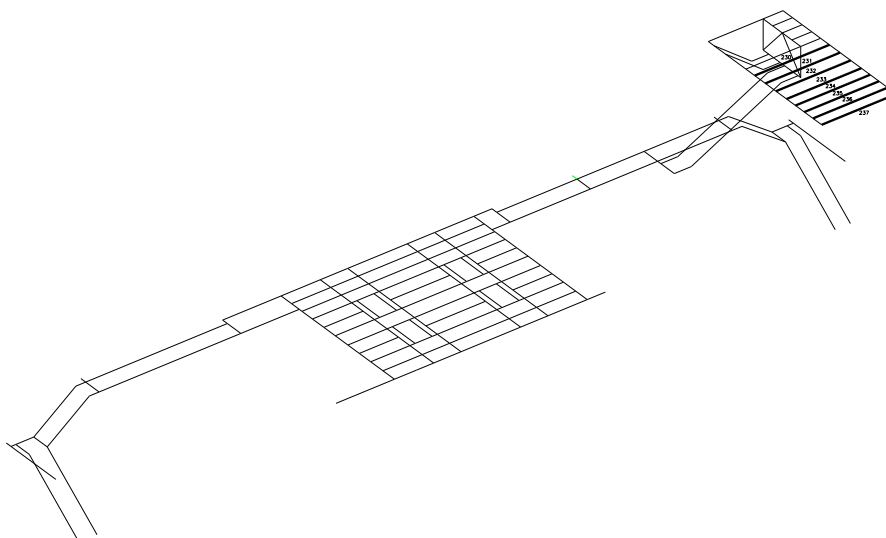
ocel 37

Z = -150.00



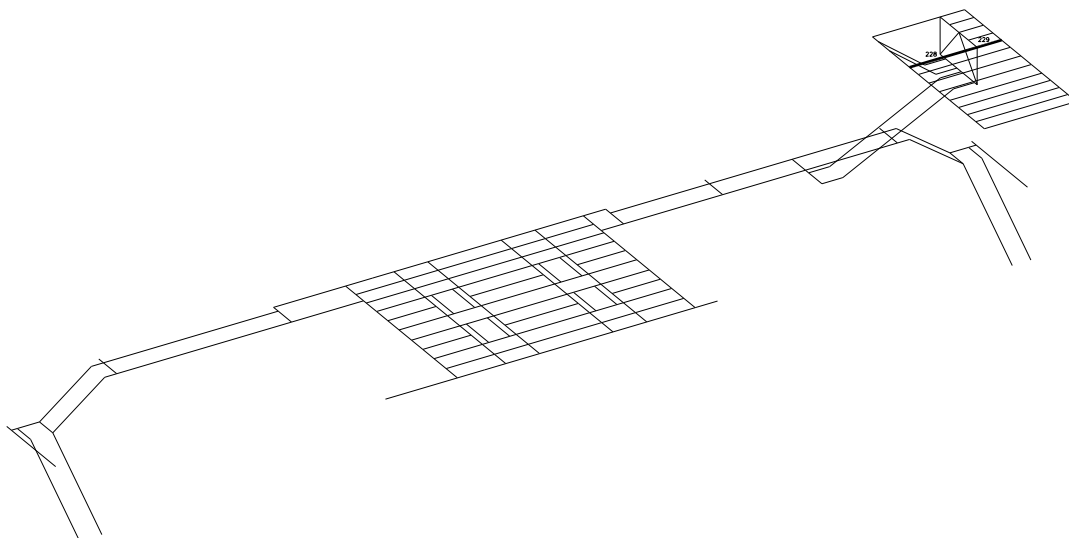
PRUREZ c. 18 (IPE)
plocha A[m2] = 2.85995E-03
mom.setr. Iy[m4] = 1.95194E-05
mom.setr. Iw[m8] = 1.29881E-08
Prvek 1 IPE 200
poloha teziste Y = 50.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 6.98000E-08
mom.setr. Iz[m4] = 1.42443E-06
ocel 37
Z = -100.00

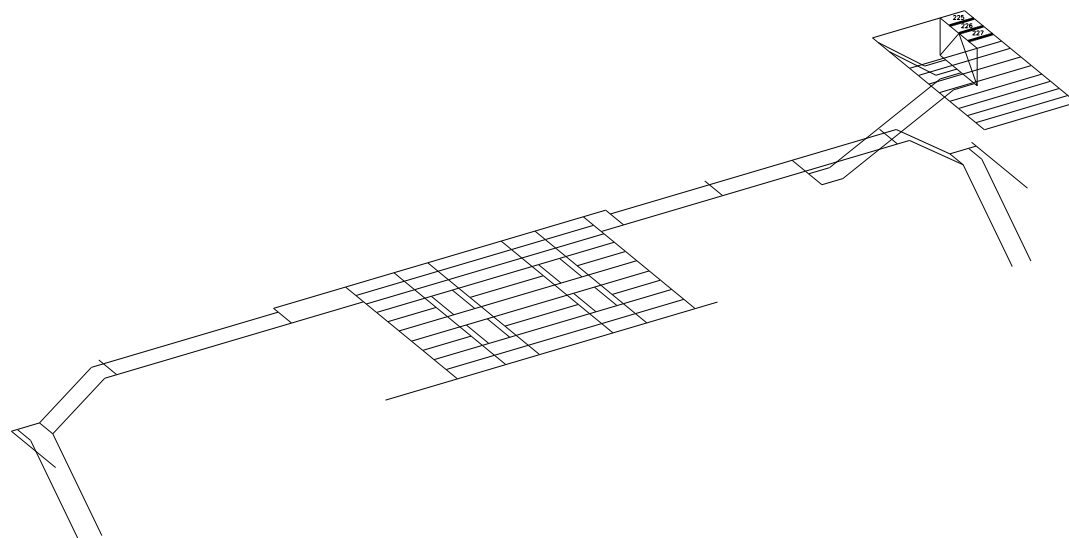


PRUREZ c. 19 (IPE)
plocha A[m2] = 3.92965E-03
mom.setr. Iy[m4] = 3.91143E-05
mom.setr. Iw[m8] = 3.73912E-08
Prvek 1 IPE 240
poloha teziste Y = 60.00

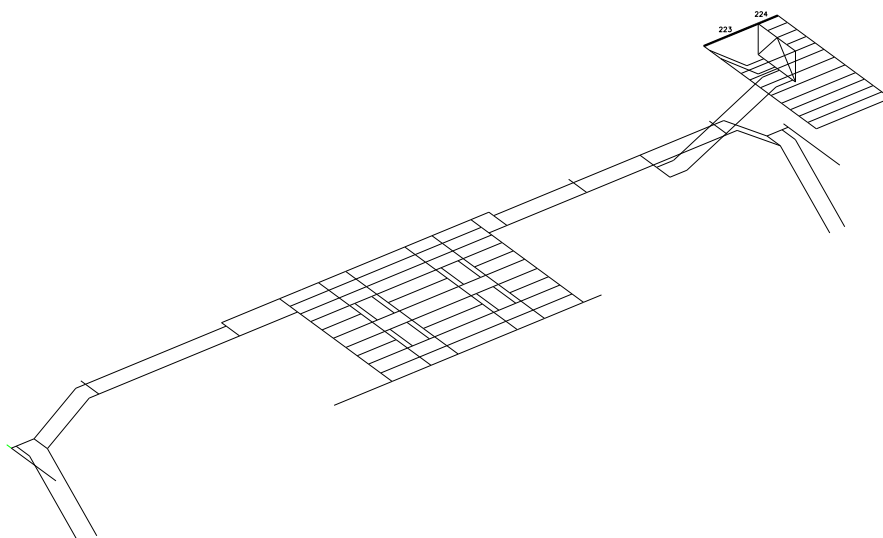
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.31000E-07
mom.setr. Iz[m4] = 2.83805E-06
ocel 37
Z = -120.00



PRŮŘEZ c. 20 (IPE)
plocha A[m2] = 1.03625E-03
mom.setr. Iy[m4] = 1.71698E-06
mom.setr. Iw[m8] = 3.51378E-10
Prvek 1 IPE 100
poloha teziste Y = 27.50
rotace průřezu Rx[st] = 0.00
mom.setr. Ix[m4] = 1.15999E-08
mom.setr. Iz[m4] = 1.59288E-07
ocel 37
Z = -50.00



PRŮŘEZ c. 21 (IPE)
plocha A[m2] = 2.85995E-03
mom.setr. Iy[m4] = 1.95194E-05
mom.setr. Iw[m8] = 1.29881E-08
Prvek 1 IPE 200
poloha teziste Y = 50.00
rotace průřezu Rx[st] = 0.00
mom.setr. Ix[m4] = 6.98000E-08
mom.setr. Iz[m4] = 1.42443E-06
ocel 37
Z = -100.00



PRUREZ c. 22 (HE-A)

plocha A[m2] = 1.98122E-02

mom.setr. Iy[m4] = 8.72379E-04

mom.setr. Iw[m8] = 5.64305E-06

Prvek 1 HE-A 500

poloha teziste Y = 150.00

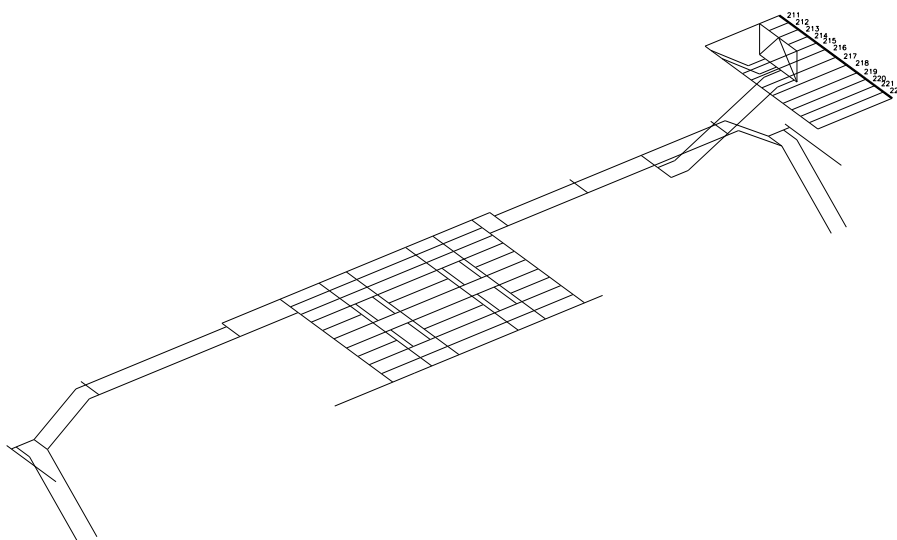
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.56801E-06

mom.setr. Iz[m4] = 1.03689E-04

ocel 37

Z = -245.00



PRUREZ c. 23 (HE-A)

plocha A[m2] = 2.27042E-02

mom.setr. Iy[m4] = 1.41604E-03

mom.setr. Iw[m8] = 8.97820E-06

Prvek 1 HE-A 600

poloha teziste Y = 150.00

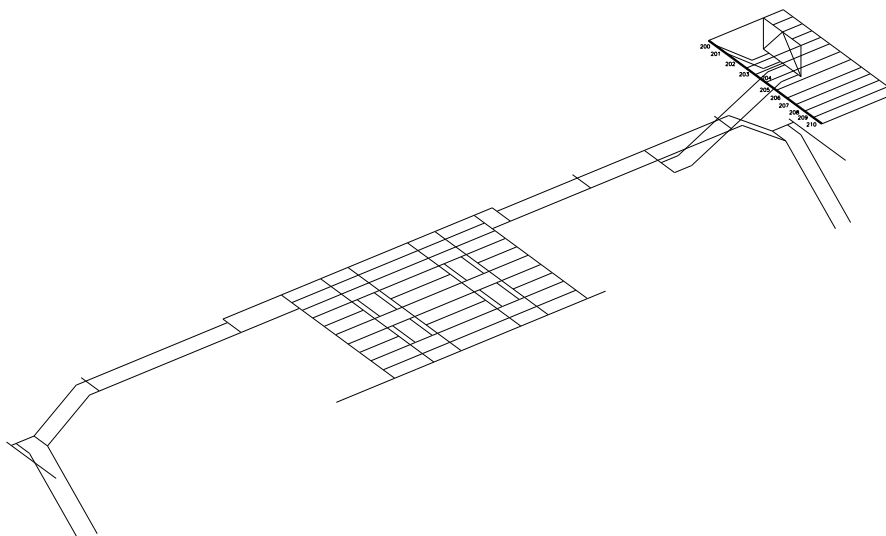
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.35154E-06

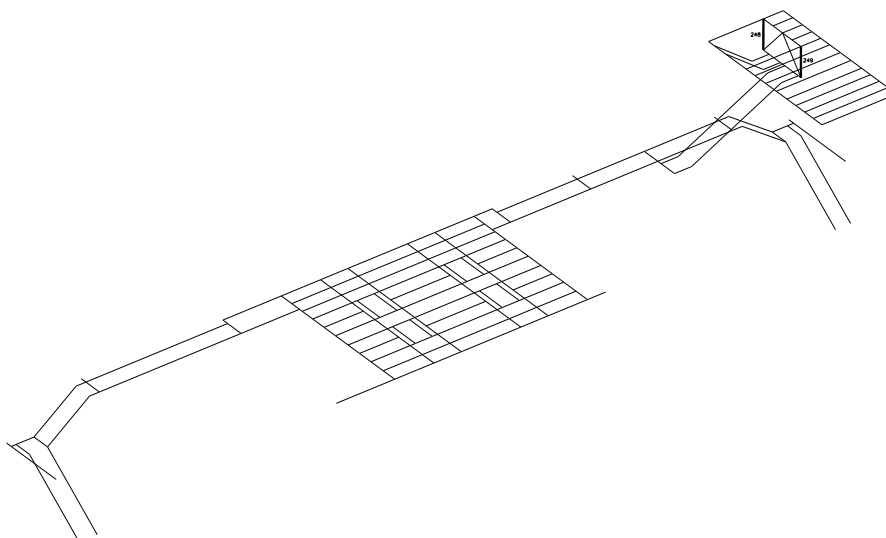
mom.setr. Iz[m4] = 1.12733E-04

ocel 37

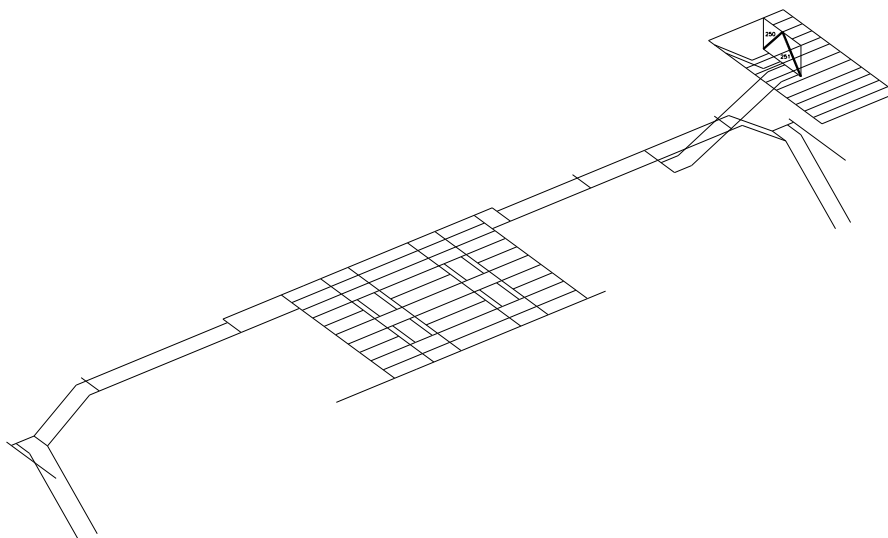
Z = -295.00



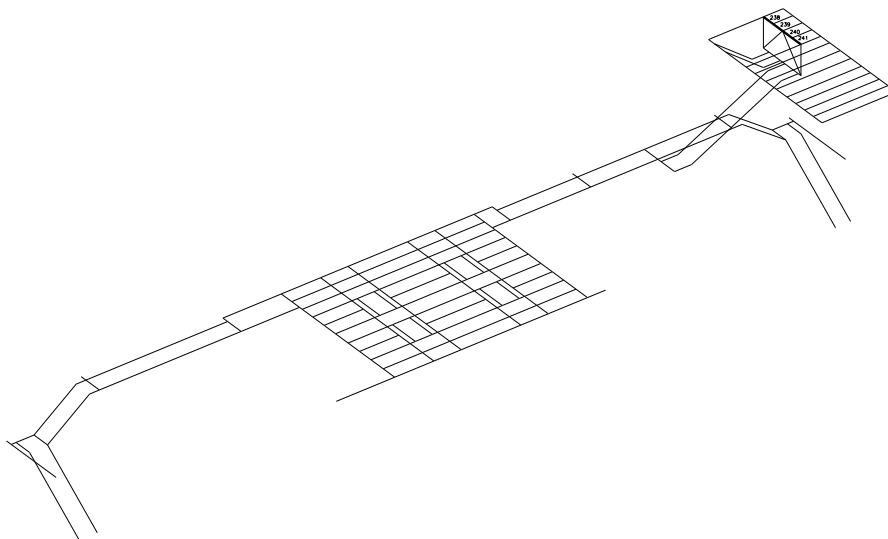
PRUREZ c. 24 (U)
plocha A[m2] = 1.34661E-03
mom.setr. Iy[m4] = 2.05447E-06
mom.setr. Iw[m8] = 3.85420E-10
Prvek 1 U 100
poloha teziste Y = 15.46 Z = -50.00
rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 2.91000E-08
mom.setr. Iz[m4] = 2.90268E-07
ocel 37



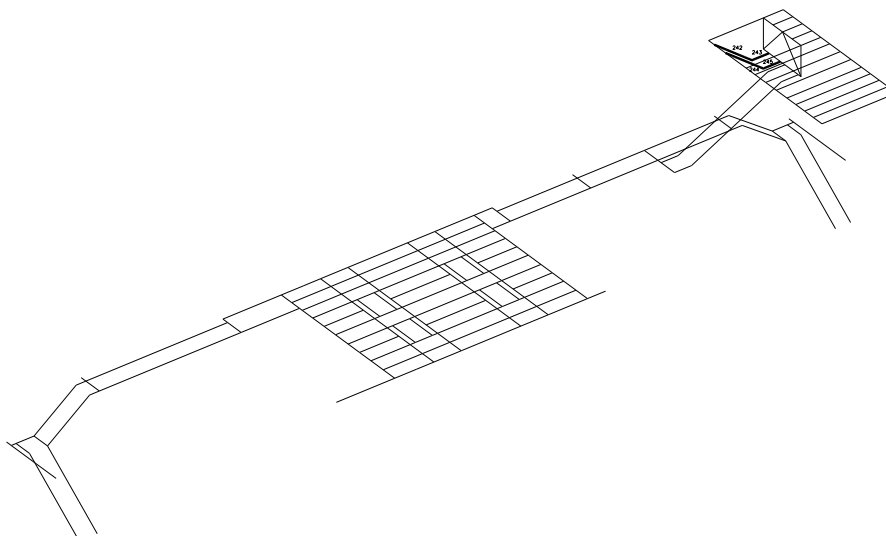
PRUREZ c. 25 (Lrov)
plocha A[m2] = 6.91017E-04
mom.setr. Iy[m4] = 9.40808E-08
mom.setr. Iw[m8] = 0.00000E+00
Prvek 1 L 60.6
poloha teziste Y = 42.43 Z = -21.07
rotace prurezu Rx[st] = 45.00
mom.setr. Ix[m4] = 8.43000E-09
mom.setr. Iz[m4] = 3.59802E-07
ocel 37



PRUREZ c. 26 (IPE)	rotace prurezu Rx[st] = 0.00
plocha A[m2] = 1.64653E-03	mom.setr. Ix[m4] = 2.40999E-08
mom.setr. Iy[m4] = 5.42664E-06	mom.setr. Iz[m4] = 4.49291E-07
mom.setr. Iw[m8] = 1.98136E-09	
Prvek 1 IPE 140	ocel 37
poloha teziste Y = 36.50	Z = -70.00

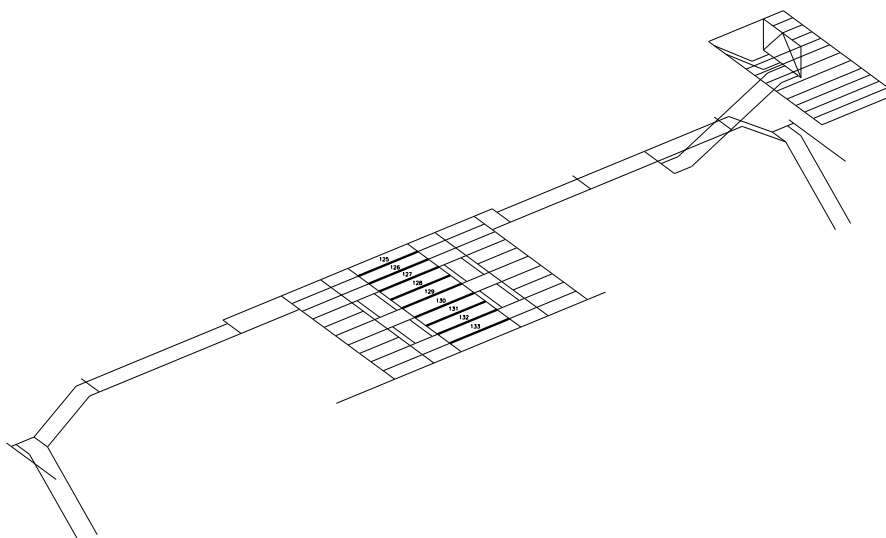


PRUREZ c. 27 (UPE)	rotace prurezu Rx[st] = 0.00
plocha A[m2] = 3.08374E-03	mom.setr. Ix[m4] = 7.90000E-08
mom.setr. Iy[m4] = 2.93875E-05	mom.setr. Iz[m4] = 2.54086E-06
mom.setr. Iw[m8] = 2.33079E-08	
Prvek 1 UPE 240	ocel 37
poloha teziste Y = 27.52	Z = -120.00



PRUREZ c. 28 (IPE)
plocha A[m2] = 2.01562E-03
mom.setr. Iy[m4] = 8.72415E-06
mom.setr. Iw[m8] = 3.95887E-09
Prvek 1 IPE 160
poloha teziste Y = 41.00 Z = -80.00

rotace prurezu Rx[st] = 0.00
mom.setr. Ix[m4] = 3.57999E-08
mom.setr. Iz[m4] = 6.83412E-07
ocel 37



M A T E R I A L
Material c. 1 ocel 37

merna hmotnost [kg/m^3] : 7850.000
pevnost v tahu [MPa] : 210.000
pevnost v tlaku [MPa] : 210.000
pevnost ve smyku [MPa] : 126.000
modul pruznosti [MPa] : 210000.000
Poissonuv soucinitel : 0.300
Soucinitel tep. roztaznosti : 1.5E-0003



Typický uzel : XYZRxRyRz

Typický prut : XYZMxMyMz

prut 3: kon kl.: MyMz
prut 4: zac kl.: MyMz
prut 6: zac kl.: MyMz
prut 8: zac kl.: MyMz
prut 11: zac kl.: MyMz kon kl.: MyMz
prut 12: zac kl.: MyMz
prut 13: zac kl.: MyMz kon kl.: MyMz
prut 14: zac kl.: MyMz kon kl.: MyMz
prut 19: zac kl.: MyMz
prut 20: kon kl.: MyMz
prut 26: kon kl.: MyMz
prut 28: kon kl.: MyMz
prut 35: zac kl.: MyMz
prut 45: kon kl.: MyMz
prut 46: kon kl.: MyMz
prut 50: zac kl.: MyMz
prut 59: kon kl.: MyMz
prut 60: zac kl.: MyMz
prut 69: kon kl.: MyMz
prut 70: zac kl.: MyMz
prut 79: kon kl.: MyMz
prut 80: zac kl.: MyMz
prut 89: kon kl.: MyMz
prut 90: zac kl.: MyMz
prut 100: kon kl.: MyMz
prut 101: zac kl.: MyMz kon kl.: MyMz
prut 102: zac kl.: MyMz kon kl.: MyMz
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prut 185: zac kl.: MyMz
prut 187: zac kl.: MyMz
prut 194: zac kl.: MyMz
prut 196: kon kl.: MyMz
prut 197: zac kl.: MyMz
prut 199: kon kl.: MyMz
prut 223: zac kl.: MyMz
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prut 248: zac kl.: MyMz kon kl.: MyMz
prut 249: zac kl.: MyMz kon kl.: MyMz
prut 250: zac kl.: MyMz kon kl.: MyMz
prut 251: zac kl.: MyMz kon kl.: MyMz

P O D P O R Y

1	1	X Y Z Rx
2	3	X Y Z
3	6	X Y Z Rx Ry Rz
4	7	X Y Z Rx Ry Rz
5	9	X Y Z
6	15	X Y Z Rx Ry Rz
7	16	X Y Z Rx Ry Rz
8	17	X Y Z Rx Ry Rz
9	18	X Y Z Rx
10	39	X Y Z
11	40	X Y Z
12	41	X Y Z
13	43	X Y Z
14	44	X Y Z
15	114	X Y Z
16	116	X Y Z
17	122	X Y Z Ry
18	140	X Y Z
19	151	X Y Z Rx
20	152	X Y Z
21	164	X Y Z Rx

Z A T E Z O V A C I S T A V Y

1.	TIHA	/ 1.350	stale
2.	PODLAHA		stale
3.	STALE REZERVA		stale
4.	UZITNE		stale
5.	TECHNOLOGIE		stale

ZATIZENI V UZLECH - stav 2 (PODLAHA)

uzel	Px[kN]	Py[kN]	Pz[kN]	Mx[kNm]	My[kNm]	Mz[kNm]	koef
143			-1.20				1.50
144			-1.30				1.50
145			-1.40				1.50
146			-1.40				1.50
147			-1.30				1.50
148			-1.20				1.50
149			-1.20				1.50
150			-1.20				1.50
151			-0.80				1.50



ZATIZENI V UZLECH - stav 3 (STALE REZERVA)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
144			-4.10				1.35
145			-4.40				1.35
146			-4.40				1.35
147			-4.10				1.35
148			-3.70				1.35
149			-3.70				1.35
150			-3.60				1.35
151			-1.80				1.35

ZATIZENI V UZLECH - stav 4 (UZITNE)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
144			-13.60				1.50
145			-14.80				1.50
146			-14.80				1.50
147			-13.60				1.50
148			-12.30				1.50
149			-12.80				1.50
150			-12.10				1.50
151			-6.00				1.50

SPOJITE IMPULZY - stav 1 (TIHA / 1.350)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil			-0.28 glob	0.00%			1.35
				-0.28 del	1.00%			
2	sil			-0.28 glob	0.00%			1.35
				-0.28 del	1.00%			
3	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
4	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
5	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
6	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
7	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
8	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
9	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
10	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
11	sil			-0.21 glob	0.00%			1.35
				-0.21 del	1.00%			
12	sil			-0.19 glob	0.00%			1.35
				-0.19 del	1.00%			
13	sil			-0.21 glob	0.00%			1.35
				-0.21 del	1.00%			
14	sil			-0.21 glob	0.00%			1.35
				-0.21 del	1.00%			
15	sil			-0.61 glob	0.00%			1.35
				-0.61 del	1.00%			
16	sil			-0.61 glob	0.00%			1.35
				-0.61 del	1.00%			



17 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
18 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
19 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
20 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
21 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
22 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
23 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
24 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
25 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
26 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
27 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
28 sil	-0.57 glob	0.00%	1.35
	-0.57 del	1.00%	
29 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
30 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
31 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
32 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
33 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
34 sil	-2.12 glob	0.00%	1.35
	-2.12 del	1.00%	
35 sil	-0.67 glob	0.00%	1.35
	-0.67 del	1.00%	
36 sil	-0.67 glob	0.00%	1.35
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45 sil	-0.67 glob	0.00%	1.35
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46 sil	-0.19 glob	0.00%	1.35
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47 sil	-0.61 glob	0.00%	1.35
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48 sil	-0.61 glob	0.00%	1.35
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50 sil	-1.25 glob	0.00%	1.35
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90 sil	-0.67 glob	0.00%	1.35
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91 sil	-0.67 glob	0.00%	1.35
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97 sil	-0.67 glob	0.00%	1.35
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125 sil	-0.16 glob	0.00%	1.35
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134 sil	-0.10 glob	0.00%	1.35
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157 sil	-0.10 glob	0.00%	1.35
	-0.10 del	1.00%	
158 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
159 sil	-0.09 glob	0.00%	1.35
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160 sil	-0.09 glob	0.00%	1.35
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161 sil	-0.09 glob	0.00%	1.35
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162 sil	-0.09 glob	0.00%	1.35
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163 sil	-0.09 glob	0.00%	1.35
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164 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
165 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
166 sil	-0.21 glob	0.00%	1.35
	-0.21 del	1.00%	



167 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
168 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
169 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
170 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
171 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
172 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
173 sil	-0.21 glob	0.00%	1.35
	-0.21 del	1.00%	
174 sil	-0.21 glob	0.00%	1.35
	-0.21 del	1.00%	
175 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
176 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
177 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
178 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
179 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
180 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
181 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
182 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
183 sil	-0.61 glob	0.00%	1.35
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184 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
185 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
186 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
187 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
188 sil	-0.19 glob	0.00%	1.35
	-0.19 del	1.00%	
189 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
190 sil	-0.28 glob	0.00%	1.35
	-0.28 del	1.00%	
191 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
192 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
193 sil	-0.69 glob	0.00%	1.35
	-0.69 del	1.00%	
194 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
195 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
196 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	



197 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
198 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
199 sil	-0.32 glob	0.00%	1.35
	-0.32 del	1.00%	
200 sil	-1.78 glob	0.00%	1.35
	-1.78 del	1.00%	
201 sil	-1.78 glob	0.00%	1.35
	-1.78 del	1.00%	
202 sil	-1.78 glob	0.00%	1.35
	-1.78 del	1.00%	
203 sil	-1.78 glob	0.00%	1.35
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204 sil	-1.78 glob	0.00%	1.35
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205 sil	-1.78 glob	0.00%	1.35
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206 sil	-1.78 glob	0.00%	1.35
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207 sil	-1.78 glob	0.00%	1.35
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208 sil	-1.78 glob	0.00%	1.35
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209 sil	-1.78 glob	0.00%	1.35
	-1.78 del	1.00%	
210 sil	-1.78 glob	0.00%	1.35
	-1.78 del	1.00%	
211 sil	-1.56 glob	0.00%	1.35
	-1.56 del	1.00%	
212 sil	-1.56 glob	0.00%	1.35
	-1.56 del	1.00%	
213 sil	-1.56 glob	0.00%	1.35
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214 sil	-1.56 glob	0.00%	1.35
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215 sil	-1.56 glob	0.00%	1.35
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216 sil	-1.56 glob	0.00%	1.35
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217 sil	-1.56 glob	0.00%	1.35
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218 sil	-1.56 glob	0.00%	1.35
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219 sil	-1.56 glob	0.00%	1.35
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220 sil	-1.56 glob	0.00%	1.35
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221 sil	-1.56 glob	0.00%	1.35
	-1.56 del	1.00%	
222 sil	-1.56 glob	0.00%	1.35
	-1.56 del	1.00%	
223 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
224 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
225 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
226 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	



227 sil	-0.08 glob	0.00%	1.35
	-0.08 del	1.00%	
228 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
229 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
230 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
231 sil	-0.22 glob	0.00%	1.35
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232 sil	-0.22 glob	0.00%	1.35
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233 sil	-0.22 glob	0.00%	1.35
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234 sil	-0.22 glob	0.00%	1.35
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235 sil	-0.22 glob	0.00%	1.35
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236 sil	-0.22 glob	0.00%	1.35
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237 sil	-0.22 glob	0.00%	1.35
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238 sil	-0.13 glob	0.00%	1.35
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239 sil	-0.13 glob	0.00%	1.35
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240 sil	-0.13 glob	0.00%	1.35
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241 sil	-0.13 glob	0.00%	1.35
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242 sil	-0.24 glob	0.00%	1.35
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243 sil	-0.24 glob	0.00%	1.35
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244 sil	-0.24 glob	0.00%	1.35
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245 sil	-0.24 glob	0.00%	1.35
	-0.24 del	1.00%	
246 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
247 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
248 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
249 sil	-0.11 glob	0.00%	1.35
	-0.11 del	1.00%	
250 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	
251 sil	-0.05 glob	0.00%	1.35
	-0.05 del	1.00%	

SPOJITE IMPULZY - stav 2 (PODLAHA)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef

3	sil			-0.61 glob	0.00%			1.35
				-0.61 del	1.00%			
4	sil			-0.61 glob	0.00%			1.35
				-0.61 del	1.00%			
5	sil			-0.61 glob	0.00%			1.35
				-0.61 del	1.00%			



6 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
7 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
9 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
10 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
11 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
12 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
13 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
14 sil	-0.72 glob	0.00%	1.35
	-0.72 del	1.00%	
19 sil	-0.72 glob	0.00%	1.35
	-0.72 del	1.00%	
20 sil	-0.54 glob	0.00%	1.35
	-0.54 del	1.00%	
21 sil	-0.54 glob	0.00%	1.35
	-0.54 del	1.00%	
22 sil	-0.54 glob	0.00%	1.35
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23 sil	-0.54 glob	0.00%	1.35
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24 sil	-0.54 glob	0.00%	1.35
	-0.54 del	1.00%	
25 sil	-0.54 glob	0.00%	1.35
	-0.54 del	1.00%	
26 sil	-0.72 glob	0.00%	1.35
	-0.72 del	1.00%	
28 sil	-0.56 glob	0.00%	1.35
	-0.56 del	1.00%	
29 sil	-0.56 glob	0.00%	1.35
	-0.56 del	1.00%	
30 sil	-0.56 glob	0.00%	1.35
	-0.56 del	1.00%	
31 sil	-0.56 glob	0.00%	1.35
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32 sil	-0.56 glob	0.00%	1.35
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33 sil	-0.56 glob	0.00%	1.35
	-0.56 del	1.00%	
37 sil	-0.30 glob	0.00%	1.35
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38 sil	-0.30 glob	0.00%	1.35
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39 sil	-0.30 glob	0.00%	1.35
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40 sil	-0.30 glob	0.00%	1.35
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	-0.30 del	1.00%	
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	-0.30 del	1.00%	
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	-0.30 del	1.00%	
44 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	



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	-0.30 del	1.00%	
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	-0.61 del	1.00%	
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	-0.30 del	1.00%	
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	-0.09 del	1.00%	
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	-0.09 del	1.00%	
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	-0.09 del	1.00%	
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	-0.09 del	1.00%	
84 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
86 sil	-0.09 glob	0.00%	1.35
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	-0.26 del	1.00%	
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	-0.54 del	1.00%	
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	-0.52 del	1.00%	
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	-0.55 del	1.00%	
130 sil	-0.55 glob	0.00%	1.35
	-0.55 del	1.00%	
131 sil	-0.52 glob	0.00%	1.35
	-0.52 del	1.00%	
132 sil	-0.52 glob	0.00%	1.35
	-0.52 del	1.00%	



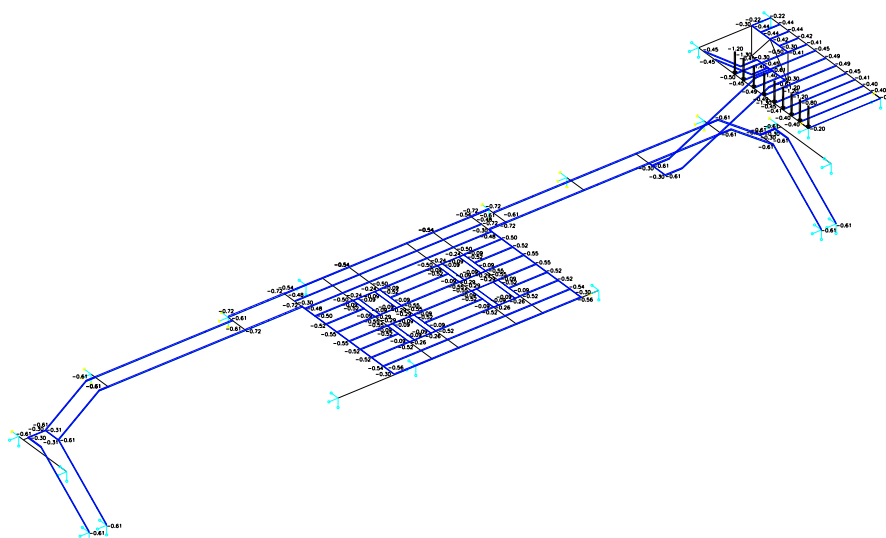
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	-0.54 del	1.00%	
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	-0.48 del	1.00%	
135 sil	-0.48 glob	0.00%	1.35
	-0.48 del	1.00%	
136 sil	-0.24 glob	0.00%	1.35
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137 sil	-0.24 glob	0.00%	1.35
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138 sil	-0.24 glob	0.00%	1.35
	-0.24 del	1.00%	
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140 sil	-0.29 glob	0.00%	1.35
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	-0.29 del	1.00%	
143 sil	-0.29 glob	0.00%	1.35
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144 sil	-0.29 glob	0.00%	1.35
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145 sil	-0.26 glob	0.00%	1.35
	-0.26 del	1.00%	
146 sil	-0.26 glob	0.00%	1.35
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	-0.54 del	1.00%	
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	-0.48 del	1.00%	
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	-0.50 del	1.00%	
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	-0.52 del	1.00%	
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	-0.55 del	1.00%	
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	-0.55 del	1.00%	
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	-0.52 del	1.00%	
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	-0.52 del	1.00%	
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	-0.54 del	1.00%	
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	-0.09 del	1.00%	
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	-0.09 del	1.00%	
160 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
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	-0.09 del	1.00%	
162 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	



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	-0.09 del	1.00%	
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	-0.09 del	1.00%	
165 sil	-0.09 glob	0.00%	1.35
	-0.09 del	1.00%	
166 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
167 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
168 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
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	-0.61 del	1.00%	
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	-0.61 del	1.00%	
171 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
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	-0.72 del	1.00%	
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	-0.61 del	1.00%	
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	-0.61 del	1.00%	
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	-0.61 del	1.00%	
177 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
178 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
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	-0.61 del	1.00%	
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	-0.61 del	1.00%	
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	-0.61 del	1.00%	
192 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
193 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
194 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
195 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
196 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
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	-0.61 del	1.00%	
198 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
199 sil	-0.61 glob	0.00%	1.35
	-0.61 del	1.00%	
224 sil	-0.22 glob	0.00%	1.35
	-0.22 del	1.00%	
225 sil	-0.44 glob	0.00%	1.35
	-0.44 del	1.00%	
226 sil	-0.44 glob	0.00%	1.35
	-0.44 del	1.00%	



227 sil	-0.42 glob	0.00%	1.35
	-0.42 del	1.00%	
228 sil	-0.50 glob	0.00%	1.35
	-0.50 del	1.00%	
229 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
230 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
231 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
232 sil	-0.49 glob	0.00%	1.35
	-0.49 del	1.00%	
233 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
234 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
235 sil	-0.40 glob	0.00%	1.35
	-0.40 del	1.00%	
236 sil	-0.40 glob	0.00%	1.35
	-0.40 del	1.00%	
237 sil	-0.20 glob	0.00%	1.35
	-0.20 del	1.00%	
238 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
239 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
240 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
241 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
242 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
243 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
244 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
245 sil	-0.45 glob	0.00%	1.35
	-0.45 del	1.00%	
246 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	
247 sil	-0.30 glob	0.00%	1.35
	-0.30 del	1.00%	



SPOJITE IMPULZY - stav 3 (STALE REZERVA)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
3	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
4	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
5	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
6	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
7	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
10	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
11	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
12	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
13	sil			-1.42	glob	0.00%		1.35
				-1.42	del	1.00%		
14	sil			-1.95	glob	0.00%		1.35
				-1.95	del	1.00%		
19	sil			-1.95	glob	0.00%		1.35
				-1.95	del	1.00%		
20	sil			-1.11	glob	0.00%		1.35
				-1.11	del	1.00%		
21	sil			-1.11	glob	0.00%		1.35
				-1.11	del	1.00%		
22	sil			-1.11	glob	0.00%		1.35
				-1.11	del	1.00%		
23	sil			-1.11	glob	0.00%		1.35
				-1.11	del	1.00%		
24	sil			-1.11	glob	0.00%		1.35
				-1.11	del	1.00%		
25	sil			-1.11	glob	0.00%		1.35
				-1.11	del	1.00%		
26	sil			-1.95	glob	0.00%		1.35
				-1.95	del	1.00%		
28	sil			-1.22	glob	0.00%		1.35
				-1.22	del	1.00%		



29 sil	-1.22 glob	0.00%	1.35
	-1.22 del	1.00%	
30 sil	-1.22 glob	0.00%	1.35
	-1.22 del	1.00%	
31 sil	-1.22 glob	0.00%	1.35
	-1.22 del	1.00%	
32 sil	-1.22 glob	0.00%	1.35
	-1.22 del	1.00%	
33 sil	-1.22 glob	0.00%	1.35
	-1.22 del	1.00%	
46 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
53 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
54 sil	-0.41 glob	0.00%	1.35
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	-0.41 del	1.00%	
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	-0.41 del	1.00%	
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	-0.41 del	1.00%	
84 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
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	-0.41 del	1.00%	
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	-2.57 del	1.00%	
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	-2.57 del	1.00%	
107 sil	-2.41 glob	0.00%	1.35
	-2.41 del	1.00%	
108 sil	-2.50 glob	0.00%	1.35
	-2.50 del	1.00%	



109 sil	-2.51 glob	0.00%	1.35
	-2.51 del	1.00%	
110 sil	-2.22 glob	0.00%	1.35
	-2.22 del	1.00%	
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	-2.22 del	1.00%	
112 sil	-1.11 glob	0.00%	1.35
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123 sil	-1.30 glob	0.00%	1.35
	-1.30 del	1.00%	
124 sil	-2.51 glob	0.00%	1.35
	-2.51 del	1.00%	
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	-2.22 del	1.00%	
126 sil	-2.22 glob	0.00%	1.35
	-2.22 del	1.00%	
127 sil	-2.32 glob	0.00%	1.35
	-2.32 del	1.00%	
128 sil	-2.41 glob	0.00%	1.35
	-2.41 del	1.00%	
129 sil	-2.57 glob	0.00%	1.35
	-2.57 del	1.00%	
130 sil	-2.57 glob	0.00%	1.35
	-2.57 del	1.00%	
131 sil	-2.41 glob	0.00%	1.35
	-2.41 del	1.00%	
132 sil	-2.50 glob	0.00%	1.35
	-2.50 del	1.00%	
133 sil	-2.51 glob	0.00%	1.35
	-2.51 del	1.00%	
134 sil	-2.22 glob	0.00%	1.35
	-2.22 del	1.00%	
135 sil	-2.22 glob	0.00%	1.35
	-2.22 del	1.00%	
136 sil	-1.11 glob	0.00%	1.35
	-1.11 del	1.00%	
137 sil	-1.11 glob	0.00%	1.35
	-1.11 del	1.00%	
138 sil	-1.11 glob	0.00%	1.35
	-1.11 del	1.00%	



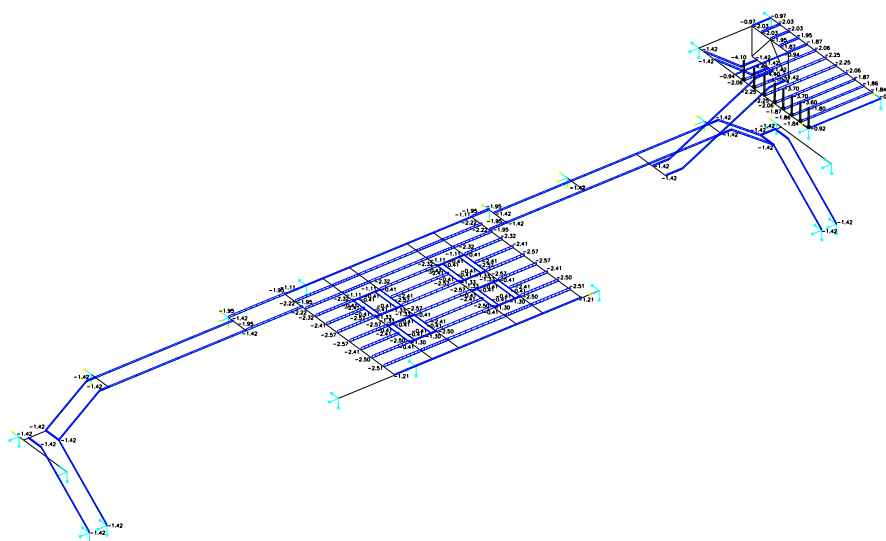
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	-1.33 del	1.00%	
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	-1.33 del	1.00%	
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143 sil	-1.33 glob	0.00%	1.35
	-1.33 del	1.00%	
144 sil	-1.33 glob	0.00%	1.35
	-1.33 del	1.00%	
145 sil	-1.30 glob	0.00%	1.35
	-1.30 del	1.00%	
146 sil	-1.30 glob	0.00%	1.35
	-1.30 del	1.00%	
147 sil	-1.30 glob	0.00%	1.35
	-1.30 del	1.00%	
148 sil	-2.51 glob	0.00%	1.35
	-2.51 del	1.00%	
149 sil	-2.22 glob	0.00%	1.35
	-2.22 del	1.00%	
150 sil	-2.22 glob	0.00%	1.35
	-2.22 del	1.00%	
151 sil	-2.32 glob	0.00%	1.35
	-2.32 del	1.00%	
152 sil	-2.41 glob	0.00%	1.35
	-2.41 del	1.00%	
153 sil	-2.57 glob	0.00%	1.35
	-2.57 del	1.00%	
154 sil	-2.57 glob	0.00%	1.35
	-2.57 del	1.00%	
155 sil	-2.41 glob	0.00%	1.35
	-2.41 del	1.00%	
156 sil	-2.50 glob	0.00%	1.35
	-2.50 del	1.00%	
157 sil	-2.51 glob	0.00%	1.35
	-2.51 del	1.00%	
158 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
159 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
160 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
161 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
162 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
163 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
164 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
165 sil	-0.41 glob	0.00%	1.35
	-0.41 del	1.00%	
166 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
167 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
168 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	



169 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
170 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
171 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
173 sil	-1.95 glob	0.00%	1.35
	-1.95 del	1.00%	
174 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
175 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
176 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
177 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
178 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
185 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
186 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
187 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
188 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
194 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
195 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
196 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
197 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
198 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
199 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
224 sil	-0.97 glob	0.00%	1.35
	-0.97 prum	1.00%	
225 sil	-2.03 glob	0.00%	1.35
	-2.03 prum	1.00%	
226 sil	-2.03 glob	0.00%	1.35
	-2.03 prum	1.00%	
227 sil	-1.95 glob	0.00%	1.35
	-1.95 prum	1.00%	
228 sil	-0.94 glob	0.00%	1.35
	-0.94 prum	1.00%	
229 sil	-1.87 glob	0.00%	1.35
	-1.87 prum	1.00%	
230 sil	-2.06 glob	0.00%	1.35
	-2.06 prum	1.00%	
231 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
232 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
233 sil	-2.06 glob	0.00%	1.35
	-2.06 prum	1.00%	
234 sil	-1.87 glob	0.00%	1.35
	-1.87 prum	1.00%	



235 sil	-1.86 glob	0.00%	1.35
	-1.86 prum	1.00%	
236 sil	-1.84 glob	0.00%	1.35
	-1.84 prum	1.00%	
237 sil	-0.92 glob	0.00%	1.35
	-0.92 prum	1.00%	
242 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
243 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
244 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	
245 sil	-1.42 glob	0.00%	1.35
	-1.42 del	1.00%	



SPOJITE IMPULZY - stav 4 (UZITNE)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
3 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
4 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
5 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
6 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
7 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
10 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
11 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
12 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
13 sil			-1.42 glob	0.00%				1.50
			-1.42 del	1.00%				
14 sil			-6.50 glob	0.00%				1.50
			-6.50 del	1.00%				
19 sil			-6.50 glob	0.00%				1.50
			-6.50 del	1.00%				
20 sil			-3.70 glob	0.00%				1.50



	-3.70	del	1.00%	
21 sil	-3.70	glob	0.00%	1.50
	-3.70	del	1.00%	
22 sil	-3.70	glob	0.00%	1.50
	-3.70	del	1.00%	
23 sil	-3.70	glob	0.00%	1.50
	-3.70	del	1.00%	
24 sil	-3.70	glob	0.00%	1.50
	-3.70	del	1.00%	
25 sil	-3.70	glob	0.00%	1.50
	-3.70	del	1.00%	
26 sil	-6.50	glob	0.00%	1.50
	-6.50	del	1.00%	
28 sil	-4.05	glob	0.00%	1.50
	-4.05	del	1.00%	
29 sil	-4.05	glob	0.00%	1.50
	-4.05	del	1.00%	
30 sil	-4.05	glob	0.00%	1.50
	-4.05	del	1.00%	
31 sil	-4.05	glob	0.00%	1.50
	-4.05	del	1.00%	
32 sil	-4.05	glob	0.00%	1.50
	-4.05	del	1.00%	
33 sil	-4.05	glob	0.00%	1.50
	-4.05	del	1.00%	
46 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
53 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
54 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
56 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
57 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
63 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
64 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
66 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
67 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
73 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
74 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
76 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
77 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
83 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
84 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
86 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
87 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
101 sil	-7.40	glob	0.00%	1.50



	-7.40	del	1.00%	
102 sil	-7.40	glob	0.00%	1.50
	-7.40	del	1.00%	
103 sil	-7.72	glob	0.00%	1.50
	-7.72	del	1.00%	
104 sil	-8.05	glob	0.00%	1.50
	-8.05	del	1.00%	
105 sil	-8.17	glob	0.00%	1.50
	-8.17	del	1.00%	
106 sil	-8.17	glob	0.00%	1.50
	-8.17	del	1.00%	
107 sil	-8.05	glob	0.00%	1.50
	-8.05	del	1.00%	
108 sil	-8.35	glob	0.00%	1.50
	-8.35	del	1.00%	
109 sil	-8.38	glob	0.00%	1.50
	-8.38	del	1.00%	
110 sil	-7.40	glob	0.00%	1.50
	-7.40	del	1.00%	
111 sil	-7.40	glob	0.00%	1.50
	-7.40	del	1.00%	
112 sil	-3.70	glob	0.00%	1.50
	-3.70	del	1.00%	
113 sil	-3.70	glob	0.00%	1.50
	-3.70	del	1.00%	
114 sil	-3.70	glob	0.00%	1.50
	-3.70	del	1.00%	
115 sil	-4.45	glob	0.00%	1.50
	-4.45	del	1.00%	
116 sil	-4.45	glob	0.00%	1.50
	-4.45	del	1.00%	
117 sil	-4.45	glob	0.00%	1.50
	-4.45	del	1.00%	
118 sil	-4.45	glob	0.00%	1.50
	-4.45	del	1.00%	
119 sil	-4.45	glob	0.00%	1.50
	-4.45	del	1.00%	
120 sil	-4.45	glob	0.00%	1.50
	-4.45	del	1.00%	
121 sil	-4.32	glob	0.00%	1.50
	-4.32	del	1.00%	
122 sil	-4.32	glob	0.00%	1.50
	-4.32	del	1.00%	
123 sil	-4.32	glob	0.00%	1.50
	-4.32	del	1.00%	
124 sil	-8.38	glob	0.00%	1.50
	-8.38	del	1.00%	
125 sil	-7.40	glob	0.00%	1.50
	-7.40	del	1.00%	
126 sil	-7.40	glob	0.00%	1.50
	-7.40	del	1.00%	
127 sil	-7.72	glob	0.00%	1.50
	-7.72	del	1.00%	
128 sil	-8.05	glob	0.00%	1.50
	-8.05	del	1.00%	
129 sil	-8.17	glob	0.00%	1.50
	-8.17	del	1.00%	
130 sil	-8.17	glob	0.00%	1.50
	-8.17	del	1.00%	
131 sil	-8.05	glob	0.00%	1.50



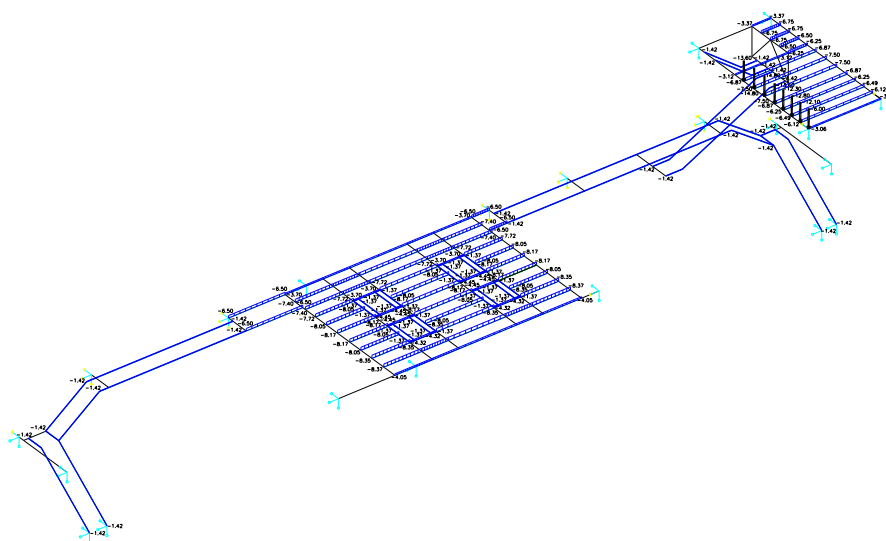
	-8.05 del	1.00%	
132 sil	-8.35 glob	0.00%	1.50
	-8.35 del	1.00%	
133 sil	-8.38 glob	0.00%	1.50
	-8.38 del	1.00%	
134 sil	-7.40 glob	0.00%	1.50
	-7.40 del	1.00%	
135 sil	-7.40 glob	0.00%	1.50
	-7.40 del	1.00%	
136 sil	-3.70 glob	0.00%	1.50
	-3.70 del	1.00%	
137 sil	-3.70 glob	0.00%	1.50
	-3.70 del	1.00%	
138 sil	-3.70 glob	0.00%	1.50
	-3.70 del	1.00%	
139 sil	-4.45 glob	0.00%	1.50
	-4.45 del	1.00%	
140 sil	-4.45 glob	0.00%	1.50
	-4.45 del	1.00%	
141 sil	-4.45 glob	0.00%	1.50
	-4.45 del	1.00%	
142 sil	-4.45 glob	0.00%	1.50
	-4.45 del	1.00%	
143 sil	-4.45 glob	0.00%	1.50
	-4.45 del	1.00%	
144 sil	-4.45 glob	0.00%	1.50
	-4.45 del	1.00%	
145 sil	-4.32 glob	0.00%	1.50
	-4.32 del	1.00%	
146 sil	-4.32 glob	0.00%	1.50
	-4.32 del	1.00%	
147 sil	-4.32 glob	0.00%	1.50
	-4.32 del	1.00%	
148 sil	-8.38 glob	0.00%	1.50
	-8.38 del	1.00%	
149 sil	-7.40 glob	0.00%	1.50
	-7.40 del	1.00%	
150 sil	-7.40 glob	0.00%	1.50
	-7.40 del	1.00%	
151 sil	-7.72 glob	0.00%	1.50
	-7.72 del	1.00%	
152 sil	-8.05 glob	0.00%	1.50
	-8.05 del	1.00%	
153 sil	-8.17 glob	0.00%	1.50
	-8.17 del	1.00%	
154 sil	-8.17 glob	0.00%	1.50
	-8.17 del	1.00%	
155 sil	-8.05 glob	0.00%	1.50
	-8.05 del	1.00%	
156 sil	-8.35 glob	0.00%	1.50
	-8.35 del	1.00%	
157 sil	-8.38 glob	0.00%	1.50
	-8.38 del	1.00%	
158 sil	-1.38 glob	0.00%	1.50
	-1.38 del	1.00%	
159 sil	-1.38 glob	0.00%	1.50
	-1.38 del	1.00%	
160 sil	-1.38 glob	0.00%	1.50
	-1.38 del	1.00%	
161 sil	-1.38 glob	0.00%	1.50



	-1.38	del	1.00%	
162 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
163 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
164 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
165 sil	-1.38	glob	0.00%	1.50
	-1.38	del	1.00%	
166 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
167 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
168 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
169 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
170 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
171 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
173 sil	-6.50	glob	0.00%	1.50
	-6.50	del	1.00%	
174 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
175 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
176 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
177 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
178 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
185 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
186 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
187 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
188 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
194 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
195 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
196 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
197 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
198 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
199 sil	-1.42	glob	0.00%	1.50
	-1.42	del	1.00%	
224 sil	-3.37	glob	0.00%	1.50
	-3.37	prum	1.00%	
225 sil	-6.75	glob	0.00%	1.50
	-6.75	prum	1.00%	
226 sil	-6.75	glob	0.00%	1.50
	-6.75	prum	1.00%	
227 sil	-6.50	glob	0.00%	1.50



228 sil	-6.50 prum	1.00%	1.50
	-3.13 glob	0.00%	
	-3.13 prum	1.00%	
229 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
230 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
231 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
232 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
233 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
234 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
235 sil	-6.49 glob	0.00%	1.50
	-6.49 prum	1.00%	
236 sil	-6.13 glob	0.00%	1.50
	-6.13 prum	1.00%	
237 sil	-3.06 glob	0.00%	1.50
	-3.06 prum	1.00%	
242 sil	-1.42 glob	0.00%	1.50
	-1.42 del	1.00%	
243 sil	-1.42 glob	0.00%	1.50
	-1.42 del	1.00%	
244 sil	-1.42 glob	0.00%	1.50
	-1.42 del	1.00%	
245 sil	-1.42 glob	0.00%	1.50
	-1.42 del	1.00%	



SPOJITE IMPULZY - stav 5 (TECHNOLOGIE)

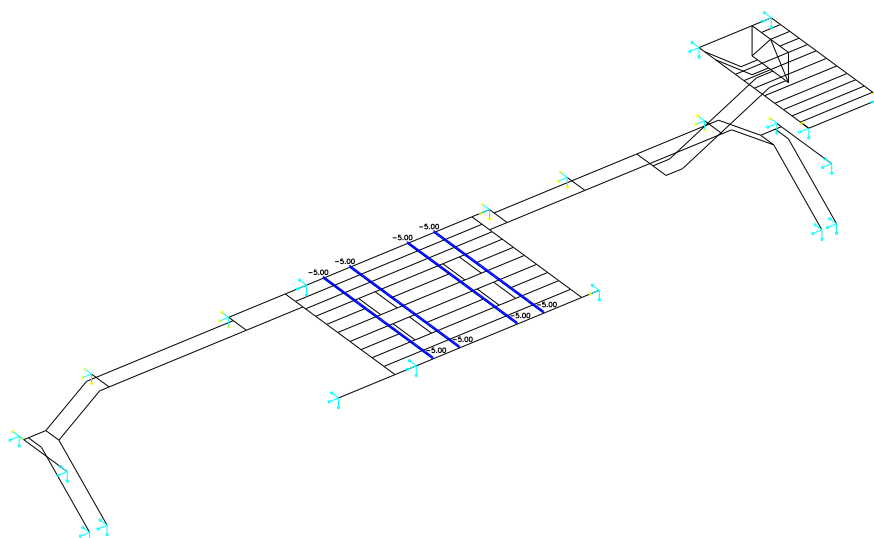
prut	typ	X	Y	Z	sourX	exY	exZ	koef
50 sil				-5.00 glob	0.00%			1.50
				-5.00 prum	1.00%			
51 sil				-5.00 glob	0.00%			1.50
				-5.00 prum	1.00%			
52 sil				-5.00 glob	0.00%			1.50
				-5.00 prum	1.00%			
53 sil				-5.00 glob	0.00%			1.50
				-5.00 prum	1.00%			



54 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
55 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
56 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
57 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
58 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
59 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
60 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
61 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
62 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
63 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
64 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
65 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
66 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
67 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
68 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
69 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
70 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
71 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
72 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
73 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
74 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
75 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
76 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
77 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
78 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
79 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
80 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
81 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
82 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
83 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	



84 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
85 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
86 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
87 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
88 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	
89 sil	-5.00 glob	0.00%	1.50
	-5.00 prum	1.00%	



K O M B I N A C E Z A T. S T A V U -
Kombinace c. 1

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 2

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 3

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0

R E Z Y N A P R U T E C H
prut X Ly Lz Lw L1 sred Y sred Z



1	0.000%	10.150	1.000	1.000
	1.000%	10.150	1.000	1.000
2	0.000%	1.105	1.000	1.000
	1.000%	1.105	1.000	1.000
3	0.000%	7.655		
	1.000%	7.655		
4	0.000%	4.117		
	1.000%	4.117		
5	0.000%	1.320		
	1.000%	1.320		
6	0.000%	4.117		
	1.000%	4.117		
7	0.000%	1.320		
	1.000%	1.320		
8	0.000%	1.555	1.000	1.000
	1.000%	1.555	1.000	1.000
9	0.000%	4.149		
	1.000%	4.149		
10	0.000%	1.439		
	1.000%	1.439		
11	0.000%	1.000		
	1.000%	1.000		
12	0.000%	1.188		
	1.000%	1.188		
13	0.000%	1.000		
	1.000%	1.000		
14	0.000%	1.000		
	1.000%	1.000		
15	0.000%	7.717		
	1.000%	7.717		
16	0.000%	1.349		
	1.000%	1.349		
17	0.000%	7.717		
	1.000%	7.717		
18	0.000%	1.349		
	1.000%	1.349		
19	0.000%	1.375		
	1.000%	1.375		
20	0.000%	3.660		
	1.000%	3.660		
21	0.000%	10.929		
	1.000%	10.929		
22	0.000%	6.896		
	1.000%	6.896		
23	0.000%	7.235		
	1.000%	7.235		
24	0.000%	6.896		
	1.000%	6.896		
25	0.000%	4.819		
	1.000%	4.819		
26	0.000%	4.595		
	1.000%	4.595		
27	0.000%	1.375		
	1.000%	1.375		
28	0.000%	3.660		
	1.000%	3.660		
29	0.000%	10.929		
	1.000%	10.929		
30	0.000%	6.896		
	1.000%	6.896		



31	0.000%	7.235		
	1.000%	7.235		
32	0.000%	6.896		
	1.000%	6.896		
33	0.000%	4.819		
	1.000%	4.819		
34	0.000%	4.595		
	1.000%	4.595		
35	0.000%	10.000		
	1.000%	10.000		
36	0.000%	16.194		
	1.000%	16.194		
37	0.000%	32.786		
	1.000%	32.786		
38	0.000%	10.840		
	1.000%	10.840		
39	0.000%	9.937		
	1.000%	9.937		
40	0.000%	9.937		
	1.000%	9.937		
41	0.000%	8.985		
	1.000%	8.985		
42	0.000%	9.937		
	1.000%	9.937		
43	0.000%	9.937		
	1.000%	9.937		
44	0.000%	9.248		
	1.000%	9.248		
47	0.000%	5.600	1.000	1.000
	1.000%	5.600	1.000	1.000
48	0.000%	2.800	1.000	1.000
	1.000%	2.800	1.000	1.000
49	0.000%	67.560	1.000	1.000
	1.000%	67.560	1.000	1.000
50	0.000%	10.000		
	1.000%	10.000		
51	0.000%	10.840		
	1.000%	10.840		
52	0.000%	10.840		
	1.000%	10.840		
53	0.000%	9.937		
	1.000%	9.937		
54	0.000%	9.937		
	1.000%	9.937		
55	0.000%	8.985		
	1.000%	8.985		
56	0.000%	9.937		
	1.000%	9.937		
57	0.000%	9.937		
	1.000%	9.937		
58	0.000%	9.248		
	1.000%	9.248		
59	0.000%	9.876		
	1.000%	9.876		
60	0.000%	10.000		
	1.000%	10.000		
61	0.000%	10.840		
	1.000%	10.840		
62	0.000%	10.840		
	1.000%	10.840		



63	0.000%	9.937
	1.000%	9.937
64	0.000%	9.937
	1.000%	9.937
65	0.000%	8.985
	1.000%	8.985
66	0.000%	9.937
	1.000%	9.937
67	0.000%	9.937
	1.000%	9.937
68	0.000%	9.248
	1.000%	9.248
69	0.000%	9.876
	1.000%	9.876
70	0.000%	10.000
	1.000%	10.000
71	0.000%	10.840
	1.000%	10.840
72	0.000%	10.840
	1.000%	10.840
73	0.000%	9.937
	1.000%	9.937
74	0.000%	9.937
	1.000%	9.937
75	0.000%	8.985
	1.000%	8.985
76	0.000%	9.937
	1.000%	9.937
77	0.000%	9.937
	1.000%	9.937
78	0.000%	9.248
	1.000%	9.248
79	0.000%	9.876
	1.000%	9.876
80	0.000%	10.000
	1.000%	10.000
81	0.000%	10.840
	1.000%	10.840
82	0.000%	10.840
	1.000%	10.840
83	0.000%	9.937
	1.000%	9.937
84	0.000%	9.937
	1.000%	9.937
85	0.000%	8.985
	1.000%	8.985
86	0.000%	9.937
	1.000%	9.937
87	0.000%	9.937
	1.000%	9.937
88	0.000%	9.248
	1.000%	9.248
89	0.000%	9.876
	1.000%	9.876
90	0.000%	10.000
	1.000%	10.000
91	0.000%	16.194
	1.000%	16.194
92	0.000%	32.786
	1.000%	32.786



93	0.000%	10.840
	1.000%	10.840
94	0.000%	9.937
	1.000%	9.937
95	0.000%	9.937
	1.000%	9.937
96	0.000%	8.985
	1.000%	8.985
97	0.000%	9.937
	1.000%	9.937
98	0.000%	9.937
	1.000%	9.937
99	0.000%	9.248
	1.000%	9.248
100	0.000%	9.826
	1.000%	9.826
101	0.000%	1.000
	1.000%	1.000
102	0.000%	1.000
	1.000%	1.000
103	0.000%	1.000
	1.000%	1.000
104	0.000%	1.000
	1.000%	1.000
105	0.000%	1.000
	1.000%	1.000
106	0.000%	1.000
	1.000%	1.000
107	0.000%	1.000
	1.000%	1.000
108	0.000%	1.000
	1.000%	1.000
109	0.000%	1.000
	1.000%	1.000
110	0.000%	1.000
	1.000%	1.000
111	0.000%	1.000
	1.000%	1.000
112	0.000%	5.272
	1.000%	5.272
113	0.000%	1.101
	1.000%	1.101
114	0.000%	5.272
	1.000%	5.272
115	0.000%	5.272
	1.000%	5.272
116	0.000%	1.101
	1.000%	1.101
117	0.000%	5.272
	1.000%	5.272
118	0.000%	5.272
	1.000%	5.272
119	0.000%	1.101
	1.000%	1.101
120	0.000%	5.272
	1.000%	5.272
121	0.000%	5.272
	1.000%	5.272
122	0.000%	1.101
	1.000%	1.101



123	0.000%	5.272		
	1.000%	5.272		
124	0.000%	1.000		
	1.000%	1.000		
125	0.000%	1.000		
	1.000%	1.000		
126	0.000%	1.000		
	1.000%	1.000		
127	0.000%	1.000		
	1.000%	1.000		
128	0.000%	1.000		
	1.000%	1.000		
129	0.000%	1.000		
	1.000%	1.000		
130	0.000%	1.000		
	1.000%	1.000		
131	0.000%	1.000		
	1.000%	1.000		
132	0.000%	1.000		
	1.000%	1.000		
133	0.000%	1.000		
	1.000%	1.000		
134	0.000%	1.000		
	1.000%	1.000		
135	0.000%	1.000		
	1.000%	1.000		
136	0.000%	5.272		
	1.000%	5.272		
137	0.000%	1.101		
	1.000%	1.101		
138	0.000%	5.272		
	1.000%	5.272		
139	0.000%	5.272		
	1.000%	5.272		
140	0.000%	1.101		
	1.000%	1.101		
141	0.000%	5.272	1.000	1.000
	1.000%	5.272	1.000	1.000
142	0.000%	5.272		
	1.000%	5.272		
143	0.000%	1.101		
	1.000%	1.101		
144	0.000%	5.272		
	1.000%	5.272		
145	0.000%	5.272		
	1.000%	5.272		
146	0.000%	1.101		
	1.000%	1.101		
147	0.000%	5.272		
	1.000%	5.272		
148	0.000%	1.000		
	1.000%	1.000		
149	0.000%	1.000		
	1.000%	1.000		
150	0.000%	1.000		
	1.000%	1.000		
151	0.000%	1.000		
	1.000%	1.000		
152	0.000%	1.000		
	1.000%	1.000		



153	0.000%	1.000
	1.000%	1.000
154	0.000%	1.000
	1.000%	1.000
155	0.000%	1.000
	1.000%	1.000
156	0.000%	1.000
	1.000%	1.000
157	0.000%	1.000
	1.000%	1.000
158	0.000%	1.000
	1.000%	1.000
159	0.000%	1.000
	1.000%	1.000
160	0.000%	1.000
	1.000%	1.000
161	0.000%	1.000
	1.000%	1.000
162	0.000%	1.000
	1.000%	1.000
163	0.000%	1.000
	1.000%	1.000
164	0.000%	1.000
	1.000%	1.000
165	0.000%	1.000
	1.000%	1.000
167	0.000%	2.238
	1.000%	2.238
168	0.000%	1.807
	1.000%	1.807
169	0.000%	7.053
	1.000%	7.053
170	0.000%	1.714
	1.000%	1.714
171	0.000%	4.957
	1.000%	4.957
172	0.000%	11.969
	1.000%	11.969
173	0.000%	1.000
	1.000%	1.000
174	0.000%	1.000
	1.000%	1.000
175	0.000%	2.238
	1.000%	2.238
176	0.000%	1.807
	1.000%	1.807
177	0.000%	7.053
	1.000%	7.053
178	0.000%	1.224
	1.000%	1.224
179	0.000%	7.717
	1.000%	7.717
180	0.000%	1.349
	1.000%	1.349
181	0.000%	7.717
	1.000%	7.717
182	0.000%	1.349
	1.000%	1.349
183	0.000%	7.717
	1.000%	7.717



184	0.000%	1.349		
	1.000%	1.349		
185	0.000%	4.684		
	1.000%	4.684		
186	0.000%	1.271		
	1.000%	1.271		
187	0.000%	4.684		
	1.000%	4.684		
188	0.000%	1.271		
	1.000%	1.271		
189	0.000%	12.010	1.000	1.000
	1.000%	12.010	1.000	1.000
190	0.000%	1.090	1.000	1.000
	1.000%	1.090	1.000	1.000
191	0.000%	7.396		
	1.000%	7.396		
192	0.000%	10.260	1.000	1.000
	1.000%	10.260	1.000	1.000
193	0.000%	2.484		
	1.000%	2.484		
195	0.000%	1.423	1.000	1.000
	1.000%	1.423	1.000	1.000
196	0.000%	6.726	1.000	1.000
	1.000%	6.726	1.000	1.000
197	0.000%	6.726	1.000	1.000
	1.000%	6.726	1.000	1.000
198	0.000%	1.423	1.000	1.000
	1.000%	1.423	1.000	1.000
199	0.000%	6.726	1.000	1.000
	1.000%	6.726	1.000	1.000
200	0.000%	20.000	1.000	1.000
	1.000%	20.000	1.000	1.000
201	0.000%	10.000	1.000	1.000
	1.000%	10.000	1.000	1.000
202	0.000%	7.641	1.000	1.000
	1.000%	7.641	1.000	1.000
203	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
204	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
205	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
206	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
207	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
208	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
209	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
210	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
211	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
212	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
213	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
214	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000



215	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
216	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
217	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
218	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
219	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
220	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
221	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
222	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
223	0.000%	1.466	1.000	1.000
	1.000%	1.466	1.000	1.000
238	0.000%	4.000	1.000	1.000
239	0.000%	4.000	1.000	1.000
240	0.000%	4.000	1.000	1.000
241	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
242	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
243	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
244	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
245	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
246	0.000%	2.800	1.000	1.000
	1.000%	2.800	1.000	1.000
247	0.000%	5.330	1.000	1.000
	1.000%	5.330	1.000	1.000
248	0.000%	1.000	1.000	1.000
	0.000%	1.000	1.000	
	1.000%	1.000	1.000	1.000
249	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
250	1.000%	1.000	1.000	
251	0.000%	1.000	1.000	
	1.000%	1.000	1.000	

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.řadek	=	minimum	2.řadek	=	maximum		
síla X								
1	0.000	3	-11.9	0.0	14.8	0.0	-17.3	0.0
2	0.000	3	1.2	0.0	-1.0	5.0	1.8	-5.8
moment X								
1	0.000	1	-7.2	0.0	9.3	0.0	-10.5	0.0
1	0.000	1	-7.2	0.0	9.3	0.0	-10.5	0.0
síla Z								
190	3.667	3	0.8	0.0	-2.6	0.0	-1.5	0.0
189	0.000	3	-8.8	0.0	20.5	0.0	16.1	0.0
moment Y								
189	0.000	2	-5.7	0.0	13.5	0.0	10.4	0.0
190	0.000	3	0.8	0.0	-1.2	6.9	-1.5	5.4



sila Y								
1	0.000	3	-11.9	0.0	14.8	0.0	-17.3	0.0
189	0.000	3	-8.8	0.0	20.5	0.0	16.1	0.0
moment Z								
1	0.333	3	-11.9	0.0	14.7	4.9	-17.3	-5.8
190	0.000	3	0.8	0.0	-1.2	6.9	-1.5	5.4

Vyhledano pro

Prurez : 1

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim	2.radek = maximum				
sila X								
5	4.367	3	-27.1	0.0	-8.8	0.0	0.0	0.0
7	0.000	3	7.6	0.0	4.6	17.8	0.0	0.0
moment X								
177	0.000	3	0.0	0.0	8.1	0.0	0.0	0.0
6	0.000	3	3.3	0.0	20.9	0.0	0.0	0.0
sila Z								
7	4.367	3	-5.3	0.0	-12.7	0.0	0.0	0.0
6	0.000	3	3.3	0.0	20.9	0.0	0.0	0.0
moment Y								
7	4.367	1	-3.2	0.0	-7.7	0.0	0.0	0.0
7	2.184	3	1.1	0.0	-4.1	18.4	0.0	0.0
sila Y								
6	0.000	3	3.3	0.0	20.9	0.0	0.0	0.0
7	0.000	3	7.6	0.0	4.6	17.8	0.0	0.0
moment Z								
7	0.000	3	7.6	0.0	4.6	17.8	0.0	0.0
12	2.802	3	3.3	0.0	-4.3	3.5	0.0	0.0

Vyhledano pro

Prurez : 2

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
186	4.367	3	-4.8	0.0	-12.8	0.0	0.0	0.0
10	2.802	3	29.0	0.0	-6.6	12.5	0.0	0.0
moment X								
9	0.000	3	19.1	0.0	12.5	4.0	3.4	-3.3
171	0.000	3	17.6	0.0	-12.3	18.6	-3.8	-0.1
sila Z								
3	0.516	3	19.0	0.0	-25.4	0.0	0.0	0.0
169	0.000	3	17.6	0.0	25.3	0.0	0.0	0.0
moment Y								
186	4.367	3	-4.8	0.0	-12.8	0.0	0.0	0.0
170	1.432	3	23.5	0.0	2.2	19.6	0.0	0.0
sila Y								
8	0.000	3	19.1	0.0	15.6	0.0	-13.1	0.0
172	0.000	3	17.6	0.0	-21.5	7.1	9.6	-3.2
moment Z								
8	0.254	3	19.1	0.0	15.6	4.0	-13.1	-3.3
186	0.000	3	8.0	0.0	4.5	18.0	0.0	0.0



Vyhledano pro

Prurez : 3

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
166	0.000	2	0.2	0.0	6.9	0.0	0.0	0.0
174	0.000	3	11.2	0.0	10.6	0.0	0.0	0.0
moment X								
14	0.000	3	3.8	0.0	20.7	0.0	0.0	0.0
173	0.000	3	8.4	0.0	6.4	0.0	0.0	0.0
síla Z								
14	3.090	3	3.8	0.0	-20.7	0.0	0.0	0.0
14	0.000	3	3.8	0.0	20.7	0.0	0.0	0.0
moment Y								
14	3.090	1	2.9	0.0	-6.0	0.0	0.0	0.0
11	3.750	3	1.6	0.0	0.0	35.0	0.0	0.0
síla Y								
174	0.000	3	11.2	0.0	10.6	0.0	0.0	0.0
14	0.000	1	2.9	0.0	6.0	0.0	0.0	0.0
moment Z								
174	4.250	3	11.2	0.0	-10.6	0.0	0.0	0.0
11	0.000	1	1.0	0.0	11.4	0.0	0.0	0.0

Vyhledano pro

Prurez : 4

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
167	0.000	3	-3.2	0.0	8.6	0.0	0.0	0.0
168	0.000	3	6.3	0.0	10.4	-1.5	0.0	-0.1
moment X								
167	0.000	3	-3.2	0.0	8.6	0.0	0.0	0.0
168	0.000	3	6.3	0.0	10.4	-1.5	0.0	-0.1
síla Z								
168	3.950	3	6.3	0.0	-9.6	0.0	0.0	0.0
168	0.000	3	6.3	0.0	10.4	-1.5	0.0	-0.1
moment Y								
167	3.550	3	-3.2	0.0	-9.4	-1.5	0.0	0.0
168	1.975	3	6.3	0.0	0.4	9.1	0.0	0.0
síla Y								
167	0.000	2	-2.4	0.0	5.6	0.0	0.0	0.0
168	0.000	3	6.3	0.0	10.4	-1.5	0.0	-0.1
moment Z								
168	0.000	3	6.3	0.0	10.4	-1.5	0.0	-0.1
167	3.550	1	-1.7	0.0	-5.9	-1.1	0.0	0.0

Vyhledano pro

Prurez : 5

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
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			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum				
sila X								
183	0.000	3	-1.3	0.0	91.7	-84.2	-13.3	6.4
181	0.000	3	1.3	0.0	81.4	-85.9	0.4	2.9
moment X								
15	0.000	1	0.0	0.0	44.0	-30.4	9.0	-1.4
15	0.000	1	0.0	0.0	44.0	-30.4	9.0	-1.4
sila Z								
16	0.951	1	0.0	0.0	16.2	0.0	-1.7	0.0
183	0.000	3	-1.3	0.0	91.7	-84.2	-13.3	6.4
moment Y								
181	0.000	3	1.3	0.0	81.4	-85.9	0.4	2.9
16	0.951	1	0.0	0.0	16.2	0.0	-1.7	0.0
sila Y								
183	0.000	3	-1.3	0.0	91.7	-84.2	-13.3	6.4
15	0.000	3	0.0	0.0	71.7	-49.6	15.2	-2.8
moment Z								
15	0.000	3	0.0	0.0	71.7	-49.6	15.2	-2.8
183	0.000	3	-1.3	0.0	91.7	-84.2	-13.3	6.4

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut [m]	Kombi		N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum				
sila X								
179	0.000	3	0.0	0.0	28.8	-26.1	-3.3	3.8
17	0.000	3	0.0	0.0	59.2	-57.5	0.1	1.3
moment X								
17	0.000	1	0.0	0.0	29.9	-26.9	-0.3	1.3
17	0.000	1	0.0	0.0	29.9	-26.9	-0.3	1.3
sila Z								
180	0.951	1	0.0	0.0	8.3	0.0	-2.4	0.0
17	0.000	3	0.0	0.0	59.2	-57.5	0.1	1.3
moment Y								
17	0.000	3	0.0	0.0	59.2	-57.5	0.1	1.3
18	0.951	1	0.0	0.0	17.4	0.0	-1.2	0.0
sila Y								
179	0.000	3	0.0	0.0	28.8	-26.1	-3.3	3.8
17	0.000	2	0.0	0.0	42.5	-42.3	0.2	0.8
moment Z								
180	0.951	2	0.0	0.0	12.2	0.0	-1.7	0.0
179	0.000	3	0.0	0.0	28.8	-26.1	-3.3	3.8

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut [m]	Kombi		N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1. radek	= minimim	2. radek	= maximum				
sila X								
25	0.000	3	-1.9	0.0	-278.4	976.4	0.0	0.0
21	0.000	3	1.9	0.0	470.0	0.0	0.0	0.0
moment X								



29	0.000	1	0.3	0.0	199.6	0.0	0.0	0.0
22	0.000	3	1.4	0.0	311.0	425.7	0.0	0.0
sila Z								
26	0.960	3	-1.7	0.0	-399.5	0.0	0.0	0.0
21	0.000	3	1.9	0.0	470.0	0.0	0.0	0.0
moment Y								
34	0.960	3	-0.3	0.0	-380.3	0.0	0.0	0.0
24	0.000	3	-0.4	0.0	-113.7	1152.4	0.0	0.0
sila Y								
25	0.000	3	-1.9	0.0	-278.4	976.4	0.0	0.0
26	0.000	3	-1.7	0.0	-384.2	376.2	0.0	0.0
moment Z								
26	0.000	3	-1.7	0.0	-384.2	376.2	0.0	0.0
21	0.000	1	1.6	0.0	201.3	0.0	0.0	0.0

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
		kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim	2.radek = maximum					
sila X							
90	0.000	3	0.0	0.0	84.0	0.0	0.0
96	0.000	3	0.0	0.0	-6.3	176.2	0.0
moment X							
99	0.000	1	0.0	0.0	-17.9	35.4	0.0
37	0.000	3	0.0	0.0	59.0	114.2	-2.7
sila Z							
45	0.810	3	0.0	0.0	-81.5	0.0	0.0
35	0.000	3	0.0	0.0	96.0	0.0	-0.3
moment Y							
100	0.810	2	0.0	0.0	-65.4	0.0	0.0
41	0.000	3	0.0	0.0	-8.6	185.8	0.0
sila Y							
91	0.000	3	0.0	0.0	68.2	61.8	-2.8
92	0.000	3	0.0	0.0	61.3	98.8	5.6
moment Z							
92	0.000	3	0.0	0.0	61.3	98.8	5.6
37	0.000	3	0.0	0.0	59.0	114.2	-2.7

Vyhledano pro

Prurez : 9

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
		kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim	2.radek = maximum					
sila X							
72	0.000	3	0.0	0.0	107.3	243.2	0.2
80	0.000	3	0.0	0.0	149.4	0.0	-1.5
moment X							
53	0.000	3	0.0	0.0	54.3	251.5	0.1
89	0.000	3	0.0	0.0	-138.6	115.3	0.2
sila Z							
79	0.810	3	0.0	0.0	-184.4	0.0	0.2
60	0.000	3	0.0	0.0	188.2	0.0	-0.7
moment Y							



69	0.810	3	0.0	0.0	-184.4	0.0	0.2	0.0
64	0.805	3	0.0	0.0	24.7	395.2	0.3	-0.7
sila Y								
80	0.000	3	0.0	0.0	149.4	0.0	-1.5	0.0
82	0.000	3	0.0	0.0	84.4	191.7	1.2	-1.8
moment Z								
81	0.738	3	0.0	0.0	110.1	191.7	-0.9	-1.8
79	0.810	1	0.0	0.0	-75.7	0.0	0.1	0.0

Vyhledano pro

Prurez : 10

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
152	0.000	3	-0.2	0.0	16.5	0.0	0.0	0.0
150	0.000	3	5.2	0.0	15.1	0.0	0.0	0.0
moment X								
148	0.000	3	0.0	0.0	12.0	0.0	0.0	0.0
124	0.000	3	0.0	0.0	12.0	0.0	0.0	0.0
sila Z								
109	2.075	3	0.0	0.0	-17.1	0.0	0.0	0.0
109	0.000	3	0.0	0.0	17.1	0.0	0.0	0.0
moment Y								
144	0.275	3	0.0	0.0	-8.7	0.0	0.0	0.0
109	1.037	3	0.0	0.0	0.0	8.9	0.0	0.0
sila Y								
144	0.000	3	0.0	0.0	-6.2	2.0	0.0	0.0
147	0.000	3	0.0	0.0	-6.1	2.0	0.0	0.0
moment Z								
147	0.000	3	0.0	0.0	-6.1	2.0	0.0	0.0
144	0.000	3	0.0	0.0	-6.2	2.0	0.0	0.0

Vyhledano pro

Prurez : 11

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minim	2.radek	= maximum				
sila X								
162	0.000	3	0.0	0.0	2.3	0.0	0.0	0.0
163	0.000	3	0.0	0.0	2.3	0.0	0.0	0.0
moment X								
160	0.000	3	0.0	0.0	2.3	0.0	0.0	0.0
165	0.000	3	0.0	0.0	2.3	0.0	0.0	0.0
sila Z								
158	1.610	3	0.0	0.0	-2.3	0.0	0.0	0.0
158	0.000	3	0.0	0.0	2.3	0.0	0.0	0.0
moment Y								
158	0.000	1	0.0	0.0	0.6	0.0	0.0	0.0
158	0.805	3	0.0	0.0	0.0	0.9	0.0	0.0
sila Y								
158	0.000	3	0.0	0.0	2.3	0.0	0.0	0.0
160	0.000	3	0.0	0.0	2.3	0.0	0.0	0.0
moment Z								



158	1.610	3	0.0	0.0	-2.3	0.0	0.0	0.0
160	1.610	3	0.0	0.0	-2.3	0.0	0.0	0.0

Vyhledano pro

Prurez : 12

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
191	0.000	3	0.0	0.0	-19.8	-0.1	9.5	0.2
193	0.000	1	0.0	0.0	8.8	-7.7	-10.5	10.0
moment X								
193	0.000	1	0.0	0.0	8.8	-7.7	-10.5	10.0
191	0.000	3	0.0	0.0	-19.8	-0.1	9.5	0.2
sila Z								
191	0.951	3	0.0	0.0	-20.7	-19.4	9.5	9.2
192	0.000	3	0.0	0.0	35.5	-19.8	-7.0	18.6
moment Y								
192	0.000	3	0.0	0.0	35.5	-19.8	-7.0	18.6
193	0.952	3	0.0	0.0	11.8	0.0	-17.8	0.0
sila Y								
193	0.000	3	0.0	0.0	13.0	-11.8	-17.8	16.9
191	0.000	3	0.0	0.0	-19.8	-0.1	9.5	0.2
moment Z								
193	0.952	1	0.0	0.0	7.5	0.0	-10.5	0.0
192	0.000	3	0.0	0.0	35.5	-19.8	-7.0	18.6

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
191	0.000	3	0.0	0.0	-19.8	-0.1	9.5	0.2
193	0.000	1	0.0	0.0	8.8	-7.7	-10.5	10.0
moment X								
193	0.000	1	0.0	0.0	8.8	-7.7	-10.5	10.0
191	0.000	3	0.0	0.0	-19.8	-0.1	9.5	0.2
sila Z								
191	0.951	3	0.0	0.0	-20.7	-19.4	9.5	9.2
192	0.000	3	0.0	0.0	35.5	-19.8	-7.0	18.6
moment Y								
192	0.000	3	0.0	0.0	35.5	-19.8	-7.0	18.6
193	0.952	3	0.0	0.0	11.8	0.0	-17.8	0.0
sila Y								
193	0.000	3	0.0	0.0	13.0	-11.8	-17.8	16.9
191	0.000	3	0.0	0.0	-19.8	-0.1	9.5	0.2
moment Z								
193	0.952	1	0.0	0.0	7.5	0.0	-10.5	0.0
192	0.000	3	0.0	0.0	35.5	-19.8	-7.0	18.6

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..3



Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
20	0.000	3	-0.2	0.0	-84.0	103.1	0.0	0.0
19	0.000	3	0.0	0.0	54.8	0.0	0.0	0.0
moment X								
27	0.000	1	0.0	0.0	8.9	0.0	0.0	0.0
20	0.000	3	-0.2	0.0	-84.0	103.1	0.0	0.0
síla Z								
20	1.160	3	-0.2	0.0	-93.8	0.0	0.0	0.0
19	0.000	3	0.0	0.0	54.8	0.0	0.0	0.0
moment Y								
27	0.000	2	0.0	0.0	21.1	0.0	0.0	0.0
20	0.000	3	-0.2	0.0	-84.0	103.1	0.0	0.0
síla Y								
19	0.000	1	0.0	0.0	17.0	0.0	0.0	0.0
19	0.000	1	0.0	0.0	17.0	0.0	0.0	0.0
moment Z								
19	0.000	1	0.0	0.0	17.0	0.0	0.0	0.0
19	0.000	1	0.0	0.0	17.0	0.0	0.0	0.0

Vyhledáno pro

Prurez : 15

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
176	0.000	3	-2.0	0.2	-25.4	144.3	1.2	-4.9
175	0.000	3	14.4	-0.2	50.6	0.0	1.3	0.0
moment X								
175	0.000	3	14.4	-0.2	50.6	0.0	1.3	0.0
176	0.000	3	-2.0	0.2	-25.4	144.3	1.2	-4.9
síla Z								
176	3.950	3	-2.0	0.2	-47.6	0.0	1.2	0.0
175	0.000	3	14.4	-0.2	50.6	0.0	1.3	0.0
moment Y								
176	3.950	2	-1.2	0.2	-32.8	0.0	0.8	0.0
175	3.550	3	14.4	-0.2	30.7	144.3	1.3	4.4
síla Y								
176	0.000	2	-1.2	0.2	-17.4	99.2	0.8	-3.2
175	0.000	3	14.4	-0.2	50.6	0.0	1.3	0.0
moment Z								
176	0.000	3	-2.0	0.2	-25.4	144.3	1.2	-4.9
175	3.550	3	14.4	-0.2	30.7	144.3	1.3	4.4

Vyhledáno pro

Prurez : 16

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
síla X								
195	0.000	3	-17.5	0.0	10.8	17.8	0.0	0.0



198	5.308	3	24.9	0.0	-10.0	20.1	0.0	0.0
moment X								
198	0.000	2	9.4	0.0	9.6	5.3	0.0	0.0
199	0.000	3	17.8	0.0	-20.0	20.1	0.0	0.0
sila Z								
199	0.900	3	17.8	0.0	-24.6	0.0	0.0	0.0
194	0.000	3	-10.8	0.0	22.1	0.0	0.0	0.0
moment Y								
196	0.900	2	-9.6	0.0	-8.6	0.0	0.0	0.0
198	2.654	3	18.8	0.0	2.2	30.5	0.0	0.0
sila Y								
198	0.000	3	12.7	0.0	14.3	8.5	0.0	0.0
199	0.000	3	17.8	0.0	-20.0	20.1	0.0	0.0
moment Z								
199	0.000	3	17.8	0.0	-20.0	20.1	0.0	0.0
195	0.000	3	-17.5	0.0	10.8	17.8	0.0	0.0

Vyhledano pro

Prurez : 17

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
		kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minim	2.radek = maximum					
sila X							
231	0.000	3	-1.4	0.0	29.5	0.0	0.0
234	0.000	3	0.0	0.0	24.7	0.0	0.0
moment X							
230	0.000	1	-0.9	0.0	7.3	0.0	0.0
237	0.000	1	0.0	0.0	3.6	0.0	0.0
sila Z							
231	3.950	3	-1.4	0.0	-29.5	0.0	0.0
231	0.000	3	-1.4	0.0	29.5	0.0	0.0
moment Y							
234	3.950	2	0.0	0.0	-20.2	0.0	0.0
231	1.975	3	-1.4	0.0	0.0	29.1	0.0
sila Y							
230	0.000	3	-1.0	0.0	27.1	0.0	0.0
237	0.000	1	0.0	0.0	3.6	0.0	0.0
moment Z							
230	3.950	3	-1.0	0.0	-27.1	0.0	0.0
230	0.000	1	-0.9	0.0	7.3	0.0	0.0

Vyhledano pro

Prurez : 18

Sled kombinací : 1..3

Vypočtové vnitřní síly na prutech

Prut [m]	Kombi	N	Mx	Tz	My	Ty	Mz
		kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minim	2.radek = maximum					
sila X							
228	0.000	2	5.2	0.0	22.2	0.0	0.0
229	0.000	3	8.7	0.0	-45.7	55.0	0.0
moment X							
229	0.000	1	7.2	0.0	-26.2	29.4	0.0
229	0.000	2	5.3	0.0	-32.7	40.0	0.0
sila Z							
229	1.050	3	8.7	0.0	-59.0	0.0	0.0



228	0.000	3	8.6	0.0	29.0	0.0	0.0	0.0
moment Y								
229	1.050	3	8.7	0.0	-59.0	0.0	0.0	0.0
229	0.000	3	8.7	0.0	-45.7	55.0	0.0	0.0
sila Y								
229	0.000	3	8.7	0.0	-45.7	55.0	0.0	0.0
228	0.000	2	5.2	0.0	22.2	0.0	0.0	0.0
moment Z								
228	2.900	3	8.6	0.0	8.9	55.0	0.0	0.0
229	0.000	3	8.7	0.0	-45.7	55.0	0.0	0.0

Vyhledano pro

Prurez : 19

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
227	0.000	3	-0.1	0.0	6.7	0.0	0.0	0.0
226	0.000	3	0.0	0.0	7.0	0.0	0.0	0.0
moment X								
225	0.000	3	0.0	0.0	7.0	0.0	0.0	0.0
227	0.000	3	-0.1	0.0	6.7	0.0	0.0	0.0
sila Z								
225	1.050	3	0.0	0.0	-7.0	0.0	0.0	0.0
225	0.000	3	0.0	0.0	7.0	0.0	0.0	0.0
moment Y								
227	1.050	3	-0.1	0.0	-6.7	0.0	0.0	0.0
225	0.525	3	0.0	0.0	0.0	1.8	0.0	0.0
sila Y								
227	0.000	3	-0.1	0.0	6.7	0.0	0.0	0.0
226	0.000	2	0.0	0.0	5.7	0.0	0.0	0.0
moment Z								
227	1.050	3	-0.1	0.0	-6.7	0.0	0.0	0.0
225	0.000	1	0.0	0.0	1.8	0.0	0.0	0.0

Vyhledano pro

Prurez : 20

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
223	0.000	3	0.0	0.0	9.4	0.0	0.0	0.0
224	0.000	3	0.0	0.0	-21.2	26.1	0.0	0.0
moment X								
224	0.000	3	0.0	0.0	-21.2	26.1	0.0	0.0
223	0.000	2	0.0	0.0	6.9	0.0	0.0	0.0
sila Z								
224	1.050	3	0.0	0.0	-28.4	0.0	0.0	0.0
223	0.000	3	0.0	0.0	9.4	0.0	0.0	0.0
moment Y								
223	0.000	1	0.0	0.0	5.4	0.0	0.0	0.0
223	2.900	3	0.0	0.0	8.5	26.1	0.0	0.0
sila Y								
224	0.000	3	0.0	0.0	-21.2	26.1	0.0	0.0



223	0.000	2	0.0	0.0	6.9	0.0	0.0	0.0
moment Z								
223	2.900	3	0.0	0.0	8.5	26.1	0.0	0.0
224	0.000	3	0.0	0.0	-21.2	26.1	0.0	0.0

Vyhledano pro

Prurez : 21

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
220	0.000	3	0.0	0.0	-103.1	240.1	-1.6	3.0
211	0.000	3	0.0	0.0	127.4	0.0	4.4	0.0
moment X								
211	0.000	1	0.0	0.0	49.5	0.0	3.6	0.0
211	0.000	1	0.0	0.0	49.5	0.0	3.6	0.0
sila Z								
222	0.612	3	0.0	0.0	-156.5	0.0	-1.6	0.0
211	0.000	3	0.0	0.0	127.4	0.0	4.4	0.0
moment Y								
211	0.000	3	0.0	0.0	127.4	0.0	4.4	0.0
217	0.000	3	0.0	0.0	-17.3	339.1	-1.8	6.5
sila Y								
215	0.000	3	0.0	0.0	42.2	303.3	-4.3	11.6
214	0.000	3	0.0	0.0	102.5	239.7	4.5	8.8
moment Z								
211	0.000	1	0.0	0.0	49.5	0.0	3.6	0.0
214	0.625	3	0.0	0.0	101.2	303.3	4.5	11.6

Vyhledano pro

Prurez : 22

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
201	0.000	3	0.0	0.0	146.5	67.4	23.0	-0.3
206	0.000	3	0.0	0.0	-59.5	522.7	-1.9	5.9
moment X								
200	0.000	1	0.0	0.0	60.0	0.0	1.9	0.0
200	0.000	1	0.0	0.0	60.0	0.0	1.9	0.0
sila Z								
210	0.612	3	0.0	0.0	-270.5	0.0	-1.8	0.0
200	0.000	3	0.0	0.0	169.1	0.0	-0.8	0.0
moment Y								
210	0.612	2	0.0	0.0	-223.0	0.0	-1.1	0.0
205	0.750	3	0.0	0.0	-0.4	522.7	-1.6	5.9
sila Y								
202	0.000	3	0.0	0.0	152.6	183.9	-7.8	18.1
201	0.000	3	0.0	0.0	146.5	67.4	23.0	-0.3
moment Z								
200	0.400	2	0.0	0.0	136.6	54.8	-1.7	-0.7
201	0.800	3	0.0	0.0	144.5	183.9	23.0	18.1



Vyhledano pro

Prurez : 23

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
sila X								
248	0.000	1	15.8	0.0	0.0	0.0	0.0	0.0
249	1.580	3	51.6	0.0	0.0	0.0	0.0	0.0
moment X								
249	0.000	3	51.3	0.0	0.0	0.0	0.0	0.0
248	0.000	2	18.2	0.0	0.0	0.0	0.0	0.0
sila Z								
249	0.000	1	31.5	0.0	0.0	0.0	0.0	0.0
248	0.000	3	26.4	0.0	0.0	0.0	0.0	0.0
moment Y								
248	0.000	1	15.8	0.0	0.0	0.0	0.0	0.0
248	1.580	3	26.6	0.0	0.0	0.0	0.0	0.0
sila Y								
249	0.000	3	51.3	0.0	0.0	0.0	0.0	0.0
248	0.000	1	15.8	0.0	0.0	0.0	0.0	0.0
moment Z								
249	1.580	3	51.6	0.0	0.0	0.0	0.0	0.0
248	0.000	1	15.8	0.0	0.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 24

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.řadek = minimim		2.řadek = maximum				
sila X								
251	0.000	3	-10.7	0.0	0.0	0.0	0.0	0.0
250	2.078	1	-3.0	0.0	0.0	0.0	0.0	0.0
moment X								
250	0.000	3	-10.5	0.0	0.0	0.0	0.0	0.0
251	0.000	2	-8.9	0.0	0.0	0.0	0.0	0.0
sila Z								
250	2.078	3	-10.4	0.0	0.0	0.0	0.0	0.0
250	0.000	1	-3.1	0.0	0.0	0.0	0.0	0.0
moment Y								
250	2.078	3	-10.4	0.0	0.0	0.0	0.0	0.0
251	2.046	3	-10.6	0.0	0.0	0.0	0.0	0.0
sila Y								
250	0.000	2	-8.7	0.0	0.0	0.0	0.0	0.0
251	0.000	3	-10.7	0.0	0.0	0.0	0.0	0.0
moment Z								
250	2.078	2	-8.6	0.0	0.0	0.0	0.0	0.0
251	2.046	3	-10.6	0.0	0.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 25

Sled kombinaci : 1..3

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
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			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek = minimim		2.radek = maximum					
sila X								
241	0.000	3	0.0	0.0	-2.7	1.8	0.0	0.0
239	0.000	3	0.0	0.0	-4.2	2.0	0.0	0.0
moment X								
240	0.000	3	0.0	0.0	4.4	-1.0	0.0	0.0
239	0.000	1	0.0	0.0	-1.0	0.6	0.0	0.0
sila Z								
239	0.675	3	0.0	0.0	-4.6	-1.0	0.0	0.0
240	0.000	3	0.0	0.0	4.4	-1.0	0.0	0.0
moment Y								
240	0.000	3	0.0	0.0	4.4	-1.0	0.0	0.0
239	0.000	3	0.0	0.0	-4.2	2.0	0.0	0.0
sila Y								
241	0.000	3	0.0	0.0	-2.7	1.8	0.0	0.0
240	0.000	3	0.0	0.0	4.4	-1.0	0.0	0.0
moment Z								
238	0.000	1	0.0	0.0	1.2	0.0	0.0	0.0
240	0.675	3	0.0	0.0	4.0	1.8	0.0	0.0

Vyhledano pro

Prurez : 26

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
244	2.549	3	-36.8	0.0	3.1	20.2	0.0	0.0
moment X								
243	0.000	3	23.8	0.0	9.4	-6.5	0.0	0.0
245	0.000	1	-24.0	0.0	-15.2	14.8	0.0	0.0
sila Z								
245	0.900	3	-30.8	0.0	-24.6	0.0	0.0	0.0
244	0.000	3	-29.2	0.0	12.7	0.0	0.0	0.0
moment Y								
242	2.549	3	24.5	0.0	-7.4	-6.5	0.0	0.0
244	2.549	3	-36.8	0.0	3.1	20.2	0.0	0.0
sila Y								
244	0.000	1	-23.7	0.0	8.7	0.0	0.0	0.0
242	0.000	3	32.1	0.0	2.2	0.0	0.0	0.0
moment Z								
243	0.000	3	23.8	0.0	9.4	-6.5	0.0	0.0
242	2.549	3	24.5	0.0	-7.4	-6.5	0.0	0.0

Vyhledano pro

Prurez : 27

Sled kombinaci : 1..3

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
130	0.000	3	0.0	0.0	25.7	0.0	0.0	0.0
126	0.000	3	2.3	0.0	23.1	0.0	0.0	0.0
moment X								
126	0.000	1	1.8	0.0	6.1	0.0	0.0	0.0



133	0.000	3	0.0	0.0	26.1	0.0	0.0	0.0
sila Z								
133	3.150	3	0.0	0.0	-26.1	0.0	0.0	0.0
133	0.000	3	0.0	0.0	26.1	0.0	0.0	0.0
moment Y								
127	3.150	1	1.2	0.0	-6.3	0.0	0.0	0.0
133	1.575	3	0.0	0.0	0.0	20.5	0.0	0.0
sila Y								
125	0.000	1	1.4	0.0	6.1	0.0	0.0	0.0
125	0.000	1	1.4	0.0	6.1	0.0	0.0	0.0
moment Z								
125	0.000	1	1.4	0.0	6.1	0.0	0.0	0.0
125	0.000	1	1.4	0.0	6.1	0.0	0.0	0.0

Vyhledano pro

Prurez : 28

Sled kombinaci : 1..3

Vypočtové reakce v podporách

Uzel	ZS	Px kN	Py kN	Pz kN	Mx kN.m	My kN.m	Mz kN.m
1	1	0.6	-1.0	1.5	0.0	0.0	0.0
	2	2.0	-2.8	2.4	0.0	0.0	0.0
	3	4.6	-6.7	5.4	0.0	0.0	0.0
	4	5.1	-7.4	6.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0
3	1	0.0	-0.1	0.7	0.0	0.0	0.0
	2	0.2	-0.3	0.3	0.0	0.0	0.0
	3	0.5	-0.7	0.6	0.0	0.0	0.0
	4	0.5	-0.8	0.6	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0
6	1	0.0	0.8	5.0	0.0	-3.4	0.0
	2	0.0	2.4	11.6	0.0	-8.1	0.4
	3	0.0	5.8	27.4	0.0	-19.0	1.0
	4	0.0	6.8	30.5	0.0	-21.1	1.5
	5	0.0	0.0	0.0	0.0	0.0	0.0
7	1	0.0	-0.2	6.7	0.0	-3.1	-0.3
	2	0.0	0.0	11.3	0.0	-6.9	-0.3
	3	0.0	0.0	29.0	0.0	-16.9	-0.6
	4	0.0	0.4	69.9	0.0	-32.3	-0.1
	5	0.0	0.0	0.0	0.0	0.0	0.0
9	1	0.0	-0.4	40.2	0.0	0.0	0.0
	2	0.0	-0.5	24.3	0.0	0.0	0.0
	3	0.0	-0.9	93.2	0.0	0.0	0.0
	4	0.0	-0.4	342.7	0.0	0.0	0.0
	5	0.0	0.0	72.7	0.0	0.0	0.0
15	1	0.0	-0.8	34.1	0.0	-1.9	-0.6
	2	0.0	-1.2	21.5	0.0	-3.4	-0.9
	3	0.0	-2.3	75.7	0.0	-8.2	-1.7
	4	0.0	-0.9	257.3	0.0	-13.4	-0.8
	5	0.0	0.0	47.3	0.0	0.0	0.0
16	1	-0.2	0.0	9.5	0.0	-10.4	-0.5
	2	-0.2	-0.2	12.5	0.0	-13.2	-0.7
	3	-0.5	-0.3	29.0	0.0	-30.3	-1.4
	4	-0.4	0.8	33.3	0.0	-35.0	-0.5
	5	0.0	0.0	0.0	0.0	0.0	0.0
17	1	0.2	-0.7	9.8	0.0	-10.0	-0.7
	2	0.2	-2.3	14.1	0.0	-12.9	-1.3
	3	0.5	-5.7	33.3	0.0	-29.9	-2.8



18	4		0.4	-5.1	37.9	0.0	-34.4	-1.9
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.5	0.8	1.8	0.0	0.0	0.0
	2		1.5	2.5	3.1	0.0	0.0	0.0
	3		3.4	6.3	7.7	0.0	0.0	0.0
39	4		3.8	7.1	8.6	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.8	0.0	0.0	0.0
	2		0.1	0.2	0.3	0.0	0.0	0.0
	3		0.3	0.6	0.7	0.0	0.0	0.0
40	4		0.3	0.6	0.8	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.2	0.0	0.7	0.0	0.0	0.0
	2		0.6	0.0	2.1	0.0	0.0	0.0
	3		1.4	0.0	5.2	0.0	0.0	0.0
41	4		1.6	0.0	5.7	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		-0.7	0.0	1.1	0.0	0.0	0.0
	2		-2.3	0.0	3.6	0.0	0.0	0.0
	3		-5.2	0.0	8.3	0.0	0.0	0.0
43	4		-5.7	0.0	9.2	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		-0.9	0.0	1.2	0.0	0.0	0.0
	2		-2.8	0.0	3.9	0.0	0.0	0.0
	3		-6.4	0.0	9.0	0.0	0.0	0.0
44	4		-7.1	0.0	10.0	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.2	0.0	0.7	0.0	0.0	0.0
	2		0.6	0.0	2.2	0.0	0.0	0.0
	3		1.3	0.0	5.2	0.0	0.0	0.0
114	4		1.4	0.0	5.8	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	2.8	0.0	0.0	0.0
	2		0.0	0.0	1.5	0.0	0.0	0.0
	3		0.0	0.0	4.6	0.0	0.0	0.0
116	4		0.0	0.0	16.8	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	39.8	0.0	0.0	0.0
	2		0.0	0.0	22.5	0.0	0.0	0.0
	3		0.0	-0.2	87.0	0.0	0.0	0.0
122	4		0.0	0.0	319.6	0.0	0.0	0.0
	5		0.0	0.0	72.7	0.0	0.0	0.0
	1		0.0	0.0	31.3	0.0	0.0	0.0
	2		0.0	0.0	16.5	0.0	0.0	0.0
	3		0.0	-0.1	62.4	0.0	0.0	0.0
140	4		0.0	0.0	229.0	0.0	0.0	0.0
	5		0.0	0.0	47.3	0.0	0.0	0.0
	1		0.0	0.3	14.5	0.0	0.0	0.0
	2		0.0	0.6	13.1	0.0	0.0	0.0
	3		0.0	0.9	37.8	0.0	0.0	0.0
151	4		0.0	-2.6	116.9	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.3	13.7	0.0	0.0	0.0
	2		0.0	0.4	17.8	0.0	0.0	0.0
	3		0.0	0.8	57.7	0.0	0.0	0.0
152	4		0.0	0.4	212.0	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.7	16.3	0.0	0.0	0.0
	2		0.0	1.0	11.9	0.0	0.0	0.0
	3		0.0	1.9	36.0	0.0	0.0	0.0



164	4		0.0	1.0	95.2	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.3	13.6	0.0	0.0	0.0
	2		0.0	0.4	8.6	0.0	0.0	0.0
	3		0.0	0.7	34.1	0.0	0.0	0.0
	4		0.0	0.4	116.0	0.0	0.0	0.0
	5		0.0	0.0	0.0	0.0	0.0	0.0

Normové deformace v uzlech

Uzel Kombi		X	Y	Z	Rx	Ry	Rz
		mm	mm	mm	rad	rad	rad
extremy	1.radek = minimim	2.radek = maximum					
posuv X							
25	3	-9.8	-2.3	-7.3	0.0046	0.0136	-0.0067
33	3	0.0	0.3	-1.9	0.0000	0.0023	0.0003
posuv Y							
135	3	-4.6	-13.8	-12.5	0.0005	0.0020	-0.0060
27	3	-9.4	6.8	-12.6	-0.0088	0.0051	0.0048
posuv Z							
126	3	-0.2	1.8	-53.1	-0.0007	0.0238	0.0017
140	1	0.0	0.0	0.0	0.0000	0.0010	-0.0008
rot X							
102	3	0.0	0.2	-24.1	-0.0100	0.0004	0.0000
132	3	-2.4	-12.7	-21.7	0.0103	0.0078	0.0025
rot Y							
40	3	0.0	0.0	0.0	0.0076	-0.0097	-0.0038
126	3	-0.2	1.8	-53.1	-0.0007	0.0238	0.0017
rot Z							
26	3	-3.6	-2.3	-2.6	0.0069	0.0045	-0.0100
4	3	-2.6	2.1	-1.7	-0.0060	0.0028	0.0097

Vyhledano pro

Sled uzlu : 1..171

Sled kombinaci : 1..3

POSOUZNÍ PRŮŘEZŮ

Vypočtové napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	189	prurez	:	1	rez	:	0.33 [m]
1 10.00 3		-135.9				0.0		135.9
sigma max prut	:	2	prurez	:	1	rez	:	0.00 [m]
1 3.00 3		135.7				0.0		135.7
tau prut	:	189	prurez	:	1	rez	:	0.00 [m]
1 7.00 3		-2.5				25.7		25.7
sigma sr. prut	:	189	prurez	:	1	rez	:	0.33 [m]
1 10.00 3		-135.9				0.0		135.9

vyuziti prurezu : 64.7 % **UPE 270 VYHOVI !**

Vyhledano pro

Prurez : 1

Sled kombinaci : 1..3

Vypočtové napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa



sigma min prut	:	6	prurez	:	2	rez	:	0.95 [m]
1 1.00 3		-115.0			0.0			115.0
sigma max prut	:	7	prurez	:	2	rez	:	0.00 [m]
1 3.00 3		120.6			0.0			120.6
tau prut	:	6	prurez	:	2	rez	:	0.00 [m]
1 6.00 3		1.4			21.8			21.8
sigma sr. prut	:	7	prurez	:	2	rez	:	0.00 [m]
1 3.00 3		120.6			0.0			120.6

vyuziti prurezu : 57.4 % **UPE 200** VYHOVI !

Vyhledano pro

Prurez : 2

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	185	prurez	:	3	rez	:	0.95 [m]
1 10.00 3		-116.3			0.0			116.3
sigma max prut	:	172	prurez	:	3	rez	:	0.00 [m]
1 3.00 3		175.1			0.0			175.1
tau prut	:	172	prurez	:	3	rez	:	0.33 [m]
1 1.50 3		7.5			-30.6			30.6
sigma sr. prut	:	172	prurez	:	3	rez	:	0.00 [m]
1 3.00 3		175.1			0.0			175.1

vyuziti prurezu : 83.4 % **UPE 200** VYHOVI !

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	11	prurez	:	4	rez	:	3.75 [m]
1 1.00 3		-179.4			0.0			179.4
sigma max prut	:	13	prurez	:	4	rez	:	3.75 [m]
1 2.00 3		180.9			0.0			180.9
tau prut	:	14	prurez	:	4	rez	:	0.00 [m]
1 1.50 3		1.4			21.0			21.0
sigma sr. prut	:	13	prurez	:	4	rez	:	3.75 [m]
1 2.00 3		180.9			0.0			180.9

vyuziti prurezu : 86.1 % **UPE 220** VYHOVI !

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	168	prurez	:	5	rez	:	1.98 [m]
1 1.00 3		-28.1			0.0			28.1
sigma max prut	:	168	prurez	:	5	rez	:	1.98 [m]



1	3.00	3	32.5		0.0		32.5
tau		prut	:	167	prurez	:	5 rez : 3.55 [m]
1	5.50	3	-4.8		-11.6		11.6
sigma sr. prut	:	168	prurez	:	5 rez	:	1.98 [m]
1	3.00	3	32.5		0.0		32.5

vyuziti prurezu : 15.5 % **UPE 270** VYHOVI !

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	183	prurez	:	6 rez	:	0.00 [m]
1	9.00	3	-152.0		0.0		152.0
sigma max prut	:	183	prurez	:	6 rez	:	0.00 [m]
1	1.00	3	151.6		0.0		151.6
tau prut	:	183	prurez	:	6 rez	:	0.00 [m]
1	12.50	3	-1.0		58.7		58.7
sigma sr. prut	:	183	prurez	:	6 rez	:	0.00 [m]
1	9.00	3	-152.0		0.0		152.0

vyuziti prurezu : 72.4 % **HEA 240** VYHOVI !

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	17	prurez	:	7 rez	:	0.00 [m]
1	9.00	3	-73.1		0.0		73.1
sigma max prut	:	17	prurez	:	7 rez	:	0.00 [m]
1	1.00	3	73.1		0.0		73.1
tau prut	:	17	prurez	:	7 rez	:	0.00 [m]
1	12.50	3	-0.1		34.7		34.7
sigma sr. prut	:	17	prurez	:	7 rez	:	0.00 [m]
1	1.00	3	73.1		0.0		73.1

vyuziti prurezu : 34.8 % **HEA 260** VYHOVI !

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	24	prurez	:	8 rez	:	0.00 [m]
1	1.00	3	-201.7		0.0		201.7
sigma max prut	:	23	prurez	:	8 rez	:	3.15 [m]
1	8.00	3	201.7		0.0		201.7
tau prut	:	21	prurez	:	8 rez	:	0.00 [m]
1	12.50	3	0.1		57.0		57.0



sigma sr. prut : 23 prurez : 8 rez : 3.15 [m]
1 8.00 3 201.7 0.0 201.7

vyuziti prurezu : 96.0 % **HEB 600** VYHOVI !

Vyhledano pro

Prurez : 8

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 41	prurez	: 9	rez	: 0.00 [m]
1 1.00 3	-160.7			0.0	160.7
sigma max prut	: 41	prurez	: 9	rez	: 0.00 [m]
1 9.00 3	160.7			0.0	160.7
tau prut	: 35	prurez	: 9	rez	: 0.00 [m]
1 12.50 3	0.0			31.6	31.6
sigma sr. prut	: 41	prurez	: 9	rez	: 0.00 [m]
1 1.00 3	-160.7			0.0	160.7

vyuziti prurezu : 76.5 % **IPE 400** VYHOVI !

Vyhledano pro

Prurez : 9

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 64	prurez	: 10	rez	: 0.81 [m]
1 1.00 3	-171.6			0.0	171.6
sigma max prut	: 64	prurez	: 10	rez	: 0.81 [m]
1 9.00 3	171.6			0.0	171.6
tau prut	: 60	prurez	: 10	rez	: 0.00 [m]
1 4.50 3	0.0			48.7	48.7
sigma sr. prut	: 64	prurez	: 10	rez	: 0.81 [m]
1 1.00 3	-171.6			0.0	171.6

vyuziti prurezu : 81.7 % **HEA 400** VYHOVI !

Vyhledano pro

Prurez : 10

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 157	prurez	: 11	rez	: 1.04 [m]
1 1.00 3	-167.0			0.0	167.0
sigma max prut	: 109	prurez	: 11	rez	: 1.04 [m]
1 8.00 3	167.0			0.0	167.0
tau prut	: 109	prurez	: 11	rez	: 2.07 [m]
1 12.50 3	0.0			-37.4	37.4
sigma sr. prut	: 157	prurez	: 11	rez	: 1.04 [m]
1 1.00 3	-167.0			0.0	167.0



vyuziti prurezu : 79.5 % **IPE 120** VYHOVI !

Vyhledano pro

Prurez : 11

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 158	prurez : 12	rez : 0.81 [m]
1 1.00 3	-26.2	0.0	26.2
sigma max prut	: 158	prurez : 12	rez : 0.81 [m]
1 2.00 3	26.2	0.0	26.2
tau prut	: 160	prurez : 12	rez : 0.00 [m]
1 1.50 3	0.0	6.2	6.2
sigma sr. prut	: 158	prurez : 12	rez : 0.81 [m]
1 1.00 3	-26.2	0.0	26.2

vyuziti prurezu : 12.5 % **UPE 100** VYHOVI !

Vyhledano pro

Prurez : 12

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 192	prurez : 13	rez : 0.00 [m]
1 9.00 3	-89.3	0.0	89.3
sigma max prut	: 192	prurez : 13	rez : 0.00 [m]
1 1.00 3	89.3	0.0	89.3
tau prut	: 192	prurez : 13	rez : 0.00 [m]
1 12.50 3	-1.9	20.8	20.8
sigma sr. prut	: 192	prurez : 13	rez : 0.00 [m]
1 9.00 3	-89.3	0.0	89.3

vyuziti prurezu : 42.5 % **HEA 320** VYHOVI !

Vyhledano pro

Prurez : 13

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 246	prurez : 14	rez : 0.80 [m]
1 1.00 3	-119.4	0.0	119.4
sigma max prut	: 247	prurez : 14	rez : 0.00 [m]
1 9.00 3	121.1	0.0	121.1
tau prut	: 49	prurez : 14	rez : 0.19 [m]
1 4.50 3	0.9	-27.6	27.6
sigma sr. prut	: 247	prurez : 14	rez : 0.00 [m]
1 9.00 3	121.1	0.0	121.1

vyuziti prurezu : 57.7 % **HEA 240** VYHOVI !



Vyhledano pro

Prurez : 14

Sled kombinací : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 20	prurez : 15	rez : 0.00 [m]
1 1.00 3	-113.7	0.0	113.7
sigma max prut	: 19	prurez : 15	rez : 3.09 [m]
1 8.00 3	113.7	0.0	113.7
tau prut	: 20	prurez : 15	rez : 1.16 [m]
1 12.50 3	-0.0	-36.7	36.7
sigma sr. prut	: 20	prurez : 15	rez : 0.00 [m]
1 1.00 3	-113.7	0.0	113.7

vyuziti prurezu : 54.1 % **IPE 360** VYHOVI !

Vyhledano pro

Prurez : 15

Sled kombinací : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 176	prurez : 16	rez : 0.00 [m]
1 1.00 3	-189.4	0.0	189.4
sigma max prut	: 175	prurez : 16	rez : 3.55 [m]
1 8.00 3	189.1	0.0	189.1
tau prut	: 175	prurez : 16	rez : 0.00 [m]
1 4.50 3	1.7	34.8	34.8
sigma sr. prut	: 176	prurez : 16	rez : 0.00 [m]
1 1.00 3	-189.4	0.0	189.4

vyuziti prurezu : 90.2 % **HEA 260** VYHOVI !

Vyhledano pro

Prurez : 16

Sled kombinací : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 195	prurez : 17	rez : 0.00 [m]
1 10.00 3	-173.2	0.0	173.2
sigma max prut	: 198	prurez : 17	rez : 5.31 [m]
1 3.00 3	57.9	0.0	57.9
tau prut	: 199	prurez : 17	rez : 0.90 [m]
1 1.50 3	4.4	-19.2	19.2
sigma sr. prut	: 195	prurez : 17	rez : 0.00 [m]
1 10.00 3	-173.2	0.0	173.2

vyuziti prurezu : 82.5 % **UPE 300** VYHOVI !

Vyhledano pro

Prurez : 17

Sled kombinací : 1..3



Vypočtové napětí na prutech rezy generované

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 231	prurez : 18	rez : 1.98 [m]
1 1.00 3	-149.8	0.0	149.8
sigma max prut	: 232	prurez : 18	rez : 1.98 [m]
1 8.00 3	149.2	0.0	149.2
tau prut	: 232	prurez : 18	rez : 3.95 [m]
1 4.50 3	-0.1	-30.0	30.0
sigma sr. prut	: 231	prurez : 18	rez : 1.98 [m]
1 1.00 3	-149.8	0.0	149.8

vyuziti prurezu : 71.3 % **IPE 200** VYHOVI !

Vyhledano pro

Prurez : 18

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy generované

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 229	prurez : 19	rez : 0.00 [m]
1 16.00 3	-166.6	0.0	166.6
sigma max prut	: 229	prurez : 19	rez : 0.00 [m]
1 8.00 3	171.0	0.0	171.0
tau prut	: 229	prurez : 19	rez : 1.05 [m]
1 12.50 3	2.2	-44.8	44.8
sigma sr. prut	: 229	prurez : 19	rez : 0.00 [m]
1 8.00 3	171.0	0.0	171.0

vyuziti prurezu : 81.4 % **IPE 240** VYHOVI !

Vyhledano pro

Prurez : 19

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy generované

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 225	prurez : 20	rez : 0.52 [m]
1 1.00 3	-53.3	0.0	53.3
sigma max prut	: 226	prurez : 20	rez : 0.52 [m]
1 8.00 3	53.3	0.0	53.3
tau prut	: 225	prurez : 20	rez : 1.05 [m]
1 12.50 3	0.0	-19.6	19.6
sigma sr. prut	: 226	prurez : 20	rez : 0.52 [m]
1 8.00 3	53.3	0.0	53.3

vyuziti prurezu : 25.4 % **IPE 100** VYHOVI !

Vyhledano pro

Prurez : 20

Sled kombinaci : 1..3

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
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			MPa		Mpa		Mpa
sigma min prut	:	223	prurez	:	21 rez	:	2.90 [m]
1 1.00 3		-155.1			0.0		155.1
sigma max prut	:	223	prurez	:	21 rez	:	2.90 [m]
1 9.00 3		133.6			0.0		133.6
tau prut	:	223	prurez	:	21 rez	:	0.00 [m]
1 4.50 3		0.0			9.6		9.6
sigma sr. prut	:	223	prurez	:	21 rez	:	2.90 [m]
1 1.00 3		-155.1			0.0		155.1

vyuziti prurezu : 73.9 % **IPE 200** VYHOVI !

Vyhledano pro

Prurez : 21

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.	
		MPa		Mpa		Mpa	

sigma min prut	:	216	prurez	:	22 rez	:	0.00 [m]
1 16.00 3		-105.6			0.0		105.6
sigma max prut	:	216	prurez	:	22 rez	:	0.00 [m]
1 8.00 3		105.4			0.0		105.4
tau prut	:	222	prurez	:	22 rez	:	0.61 [m]
1 12.50 3		0.0			-29.6		29.6
sigma sr. prut	:	216	prurez	:	22 rez	:	0.00 [m]
1 16.00 3		-105.6			0.0		105.6

vyuziti prurezu : 50.3 % **HEA 500** VYHOVI !

Vyhledano pro

Prurez : 22

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.	
		MPa		Mpa		Mpa	

sigma min prut	:	204	prurez	:	23 rez	:	0.75 [m]
1 16.00 3		-118.4			0.0		118.4
sigma max prut	:	204	prurez	:	23 rez	:	0.75 [m]
1 8.00 3		118.2			0.0		118.2
tau prut	:	210	prurez	:	23 rez	:	0.61 [m]
1 12.50 3		0.0			-39.4		39.4
sigma sr. prut	:	204	prurez	:	23 rez	:	0.75 [m]
1 16.00 3		-118.4			0.0		118.4

vyuziti prurezu : 56.4 % **HEA 600** VYHOVI !

Vyhledano pro

Prurez : 23

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	: 248	prurez : 24	rez : 0.00 [m]



1	1.00	1	11.8		0.0		11.8
sigma max prut	:	249	prurez	:	24	rez	: 1.58 [m]
1	3.00	3	38.3		0.0		38.3
tau prut	:	249	prurez	:	24	rez	: 1.58 [m]
1	9.00	3	38.3		4.0		38.3
sigma sr. prut	:	249	prurez	:	24	rez	: 1.58 [m]
1	3.00	3	38.3		0.0		38.3

vyuziti prurezu : 18.2 % **U 100** VYHOVI !

Vyhledano pro

Prurez : 24

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut : 1 1.00 3	251 prurez : -73.1	25 rez : 1.8	0.00 [m] 73.1
sigma max prut : 1 9.25 1	251 prurez : -21.0	25 rez : 0.6	2.05 [m] 21.0
tau prut : 1 1.00 3	250 prurez : -72.9	25 rez : -2.5	2.08 [m] 72.9
sigma sr. prut : 1 1.00 3	251 prurez : -73.1	25 rez : 1.8	0.00 [m] 73.1

vyuziti prurezu : 34.8 % **L 60x6** VYHOVI !

Vyhledano pro

Prurez : 25

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.		sigma x		tau		sig.srov.
		MPa		Mpa		Mpa
sigma min prut	:	241	prurez	:	26 rez	: 0.00 [m]
1 16.00 3		-27.6			0.0	27.6
sigma max prut	:	241	prurez	:	26 rez	: 0.00 [m]
1 8.00 3		27.2			0.0	27.2
tau prut	:	240	prurez	:	26 rez	: 0.00 [m]
1 4.50 3		0.1			7.7	7.7
sigma sr. prut	:	241	prurez	:	26 rez	: 0.00 [m]
1 16.00 3		-27.6			0.0	27.6

vyuziti prurezu : 13.2 % **IPE 140** VYHOVI !

Vyhledano pro

Prurez : 26

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa
sigma min prut	: 244	prurez : 27	rez : 2.55 [m]
1 1.00 3	-137.2	0.0	137.2
sigma max prut	: 245	prurez : 27	rez : 0.00 [m]
1 2.00 3	72.3	0.0	72.3



tau	prut	:	245	prurez	:	27	rez	:	0.90	[m]
1	1.50	3	-10.3				-21.0			21.0
sigma sr.	prut	:	244	prurez	:	27	rez	:	2.55	[m]
1	1.00	3	-137.2				0.0			137.2

vyuziti prurezu : 65.3 % **UPE 240** VYHOVI !

Vyhledano pro

Prurez : 27

Sled kombinaci : 1..3

Vypoctove napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	:	133	prurez	:	28	rez	:	1.57	[m]
1	1.00	3	-188.4			0.0			188.4
sigma max prut	:	133	prurez	:	28	rez	:	1.57	[m]
1	8.00	3	188.4			0.0			188.4
tau prut	:	133	prurez	:	28	rez	:	3.15	[m]
1	4.50	3	0.0			-37.2			37.2
sigma sr. prut	:	133	prurez	:	28	rez	:	1.57	[m]
1	8.00	3	188.4			0.0			188.4

vyuziti prurezu : 89.7 % **IPE 160** VYHOVI !

Vyhledano pro

Prurez : 28

Sled kombinaci : 1..3



2.8 PLOŠINA +44,250 m

ZATÍŽENÍ

1. Zatěžovací stav

Vlastní tíha $\gamma = 1,35$

Generována počítačem

2. Zatěžovací stav

Zatížení stálé $\gamma = 1,35$

Podlaha z plechu POV8

$$gz1 = 0,65 \times 0,5 \times 0,675 = 0,219 \text{ kN/m}$$

$$gz2 = 0,65 \times 0,675 = 0,438 \text{ kN/m}$$

$$gz3 = 0,65 \times 0,5 \times (0,675 + 0,625) = 0,423 \text{ kN/m}$$

$$gz4 = 0,65 \times 0,625 = 0,406 \text{ kN/m}$$

$$gz5 = 0,65 \times 0,5 \times (0,675 + 0,75) = 0,447 \text{ kN/m}$$

$$gz6 = 0,65 \times 0,75 = 0,487 \text{ kN/m}$$

$$gz7 = 0,65 \times 0,5 \times (0,625 + 0,6125) = 0,402 \text{ kN/m}$$

$$gz8 = 0,65 \times 0,6125 = 0,398 \text{ kN/m}$$

$$gz9 = 0,65 \times 0,5 \times 0,6125 = 0,199 \text{ kN/m}$$

$$Pz1 = 12,0 \text{ kN}$$

$$Pz2 = 16,0 \text{ kN}$$

$$Pz3 = 24,8 \text{ kN}$$

3. Zatěžovací stav

Zatížení stálé - rezerva $\gamma = 1,35$

$$g = 3,0 \text{ kN/m}^2$$

$$gz1 = 3,0 \times 0,5 \times 0,675 = 0,975 \text{ kN/m}$$

$$gz2 = 3,0 \times 0,675 = 2,025 \text{ kN/m}$$

$$gz3 = 3,0 \times 0,5 \times (0,675 + 0,625) = 1,95 \text{ kN/m}$$

$$gz4 = 3,0 \times 0,625 = 1,875 \text{ kN/m}$$

$$gz5 = 3,0 \times 0,5 \times (0,675 + 0,75) = 2,063 \text{ kN/m}$$

$$gz6 = 3,0 \times 0,75 = 2,25 \text{ kN/m}$$

$$gz7 = 3,0 \times 0,5 \times (0,625 + 0,6125) = 1,856 \text{ kN/m}$$

$$gz8 = 3,0 \times 0,6125 = 1,837 \text{ kN/m}$$

$$gz9 = 3,0 \times 0,5 \times 0,6125 = 0,918 \text{ kN/m}$$

4. Zatěžovací stav

Zatížení užitné $\gamma = 1,5$

$$p = 10,0 \text{ kN/m}^2$$

$$gz1 = 10,0 \times 0,5 \times 0,675 = 3,375 \text{ kN/m}$$

$$gz2 = 10,0 \times 0,675 = 6,75 \text{ kN/m}$$

$$gz3 = 10,0 \times 0,5 \times (0,675 + 0,625) = 6,5 \text{ kN/m}$$

$$gz4 = 10,0 \times 0,625 = 6,25 \text{ kN/m}$$

$$gz5 = 10,0 \times 0,5 \times (0,675 + 0,75) = 6,875 \text{ kN/m}$$

$$gz6 = 10,0 \times 0,75 = 7,5 \text{ kN/m}$$

$$gz7 = 10,0 \times 0,5 \times (0,625 + 0,6125) = 6,187 \text{ kN/m}$$

$$gz8 = 10,0 \times 0,6125 = 6,125 \text{ kN/m}$$

$$gz9 = 10,0 \times 0,5 \times 0,6125 = 3,063 \text{ kN/m}$$

5. Zatěžovací stav

Zatížení technologií $\gamma = 1,5$

$$gz1 = 0,5 \times (2,0 + 3,0) = 2,5 \text{ kN/m}$$

$$Pz1 = 0,5 \times 40,0 = 20,0 \text{ kN}$$

6. Zatěžovací stav

Zatížení sněhem $\gamma = 1,5$



Reakce od zastřešení

Pz1 = 12,0 kN

Pz2 = 16,0 kN

7. Zatěžovací stav

Zatížení větrem $\gamma = 1,5$

Reakce od zastřešení

Pz1 = 13,1 kN

Pz2 = 19,2 kN

Pz3 = 46,6 kN

8. Zatěžovací stav

Zatížení větrem $\gamma = 1,5$

Reakce od zastřešení

Pz1 = 19,4 kN

Pz2 = 5,3 kN

Pz3 = 14,4 kN

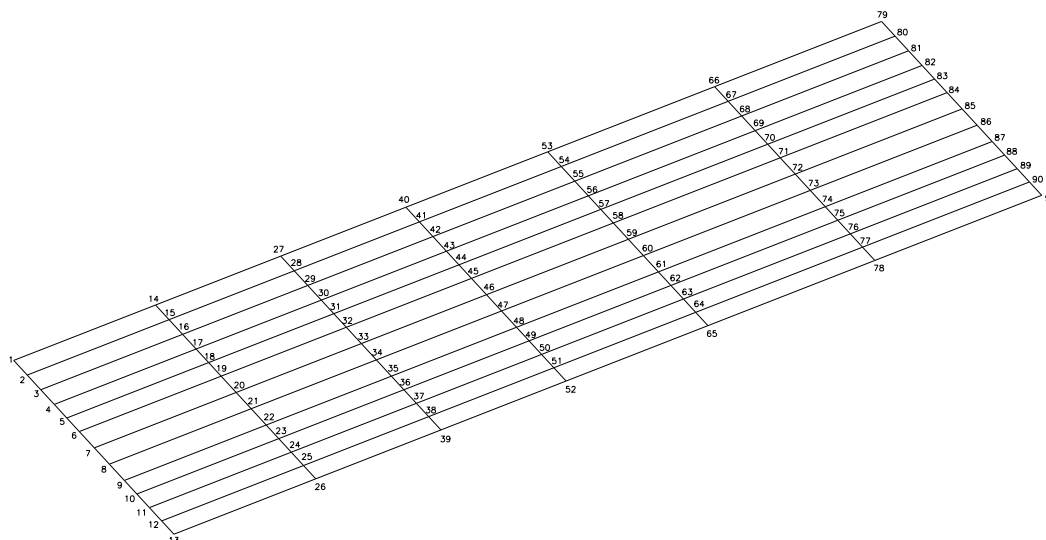
TVAR KONSTRUKCE

U Z L Y

uzel	X[m]	Y[m]	Z[m]	typ
1	0.0000	0.0000	0.0000	
2	0.6750	0.0000	0.0000	
3	1.3500	0.0000	0.0000	
4	2.0250	0.0000	0.0000	
5	2.6500	0.0000	0.0000	
6	3.2750	0.0000	0.0000	
7	4.0250	0.0000	0.0000	
8	4.7750	0.0000	0.0000	
9	5.5250	0.0000	0.0000	
10	6.1500	0.0000	0.0000	
11	6.7750	0.0000	0.0000	
12	7.3875	0.0000	0.0000	
13	8.0000	0.0000	0.0000	
14	0.0000	4.2500	0.0000	
15	0.6750	4.2500	0.0000	
16	1.3500	4.2500	0.0000	
17	2.0250	4.2500	0.0000	
18	2.6500	4.2500	0.0000	
19	3.2750	4.2500	0.0000	
20	4.0250	4.2500	0.0000	
21	4.7750	4.2500	0.0000	
22	5.5250	4.2500	0.0000	
23	6.1500	4.2500	0.0000	
24	6.7750	4.2500	0.0000	
25	7.3875	4.2500	0.0000	
26	8.0000	4.2500	0.0000	
27	0.0000	8.0000	0.0000	
28	0.6750	8.0000	0.0000	
29	1.3500	8.0000	0.0000	
30	2.0250	8.0000	0.0000	
31	2.6500	8.0000	0.0000	
32	3.2750	8.0000	0.0000	
33	4.0250	8.0000	0.0000	
34	4.7750	8.0000	0.0000	
35	5.5250	8.0000	0.0000	
36	6.1500	8.0000	0.0000	



37	6.7750	8.0000	0.0000
38	7.3875	8.0000	0.0000
39	8.0000	8.0000	0.0000
40	0.0000	11.7500	0.0000
41	0.6750	11.7500	0.0000
42	1.3500	11.7500	0.0000
43	2.0250	11.7500	0.0000
44	2.6500	11.7500	0.0000
45	3.2750	11.7500	0.0000
46	4.0250	11.7500	0.0000
47	4.7750	11.7500	0.0000
48	5.5250	11.7500	0.0000
49	6.1500	11.7500	0.0000
50	6.7750	11.7500	0.0000
51	7.3875	11.7500	0.0000
52	8.0000	11.7500	0.0000
53	0.0000	16.0000	0.0000
54	0.6750	16.0000	0.0000
55	1.3500	16.0000	0.0000
56	2.0250	16.0000	0.0000
57	2.6500	16.0000	0.0000
58	3.2750	16.0000	0.0000
59	4.0250	16.0000	0.0000
60	4.7750	16.0000	0.0000
61	5.5250	16.0000	0.0000
62	6.1500	16.0000	0.0000
63	6.7750	16.0000	0.0000
64	7.3875	16.0000	0.0000
65	8.0000	16.0000	0.0000
66	0.0000	21.0000	0.0000
67	0.6750	21.0000	0.0000
68	1.3500	21.0000	0.0000
69	2.0250	21.0000	0.0000
70	2.6500	21.0000	0.0000
71	3.2750	21.0000	0.0000
72	4.0250	21.0000	0.0000
73	4.7750	21.0000	0.0000
74	5.5250	21.0000	0.0000
75	6.1500	21.0000	0.0000
76	6.7750	21.0000	0.0000
77	7.3875	21.0000	0.0000
78	8.0000	21.0000	0.0000
79	0.0000	26.0000	0.0000
80	0.6750	26.0000	0.0000
81	1.3500	26.0000	0.0000
82	2.0250	26.0000	0.0000
83	2.6500	26.0000	0.0000
84	3.2750	26.0000	0.0000
85	4.0250	26.0000	0.0000
86	4.7750	26.0000	0.0000
87	5.5250	26.0000	0.0000
88	6.1500	26.0000	0.0000
89	6.7750	26.0000	0.0000
90	7.3875	26.0000	0.0000
91	8.0000	26.0000	0.0000



P R U T Y					
prut	zac	konec	delka[m]	prurez	typ
1	1	2	0.6750	1	
2	2	3	0.6750	1	
3	3	4	0.6750	1	
4	4	5	0.6250	1	
5	5	6	0.6250	1	
6	6	7	0.7500	1	
7	7	8	0.7500	1	
8	8	9	0.7500	1	
9	9	10	0.6250	1	
10	10	11	0.6250	1	
11	11	12	0.6125	1	
12	12	13	0.6125	1	
13	14	15	0.6750	2	
14	15	16	0.6750	2	
15	16	17	0.6750	2	
16	17	18	0.6250	2	
17	18	19	0.6250	2	
18	19	20	0.7500	2	
19	20	21	0.7500	2	
20	21	22	0.7500	2	
21	22	23	0.6250	2	
22	23	24	0.6250	2	
23	24	25	0.6125	2	
24	25	26	0.6125	2	
25	27	28	0.6750	2	
26	28	29	0.6750	2	
27	29	30	0.6750	2	
28	30	31	0.6250	2	
29	31	32	0.6250	2	
30	32	33	0.7500	2	
31	33	34	0.7500	2	
32	34	35	0.7500	2	
33	35	36	0.6250	2	
34	36	37	0.6250	2	
35	37	38	0.6125	2	
36	38	39	0.6125	2	
37	40	41	0.6750	2	
38	41	42	0.6750	2	



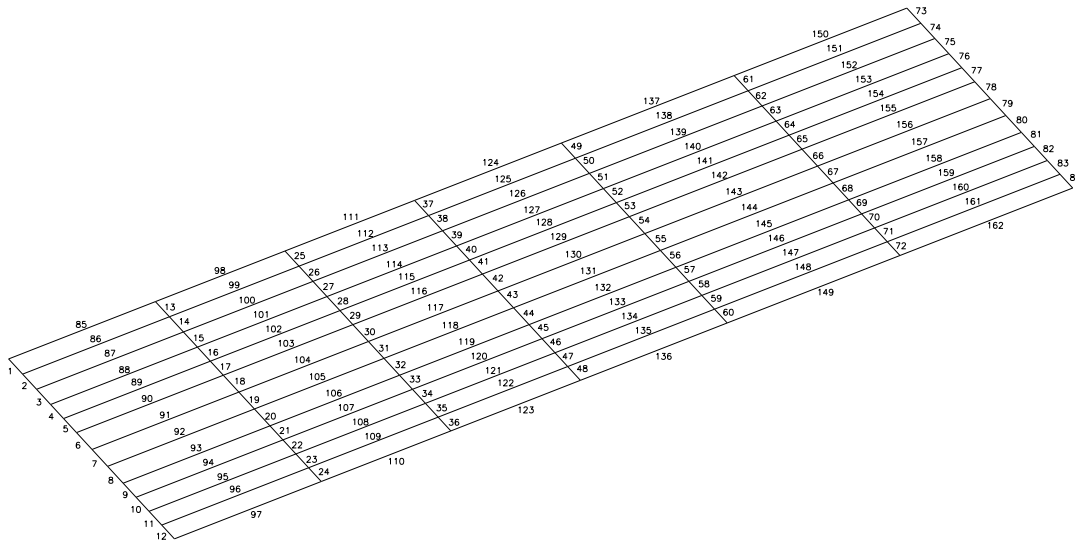
39	42	43	0.6750	2
40	43	44	0.6250	2
41	44	45	0.6250	2
42	45	46	0.7500	2
43	46	47	0.7500	2
44	47	48	0.7500	2
45	48	49	0.6250	2
46	49	50	0.6250	2
47	50	51	0.6125	2
48	51	52	0.6125	2
49	53	54	0.6750	2
50	54	55	0.6750	2
51	55	56	0.6750	2
52	56	57	0.6250	2
53	57	58	0.6250	2
54	58	59	0.7500	2
55	59	60	0.7500	2
56	60	61	0.7500	2
57	61	62	0.6250	2
58	62	63	0.6250	2
59	63	64	0.6125	2
60	64	65	0.6125	2
61	66	67	0.6750	2
62	67	68	0.6750	2
63	68	69	0.6750	2
64	69	70	0.6250	2
65	70	71	0.6250	2
66	71	72	0.7500	2
67	72	73	0.7500	2
68	73	74	0.7500	2
69	74	75	0.6250	2
70	75	76	0.6250	2
71	76	77	0.6125	2
72	77	78	0.6125	2
73	79	80	0.6750	2
74	80	81	0.6750	2
75	81	82	0.6750	2
76	82	83	0.6250	2
77	83	84	0.6250	2
78	84	85	0.7500	2
79	85	86	0.7500	2
80	86	87	0.7500	2
81	87	88	0.6250	2
82	88	89	0.6250	2
83	89	90	0.6125	2
84	90	91	0.6125	2
85	1	14	4.2500	3
86	2	15	4.2500	4
87	3	16	4.2500	4
88	4	17	4.2500	5
89	5	18	4.2500	4
90	6	19	4.2500	5
91	7	20	4.2500	4
92	8	21	4.2500	4
93	9	22	4.2500	5
94	10	23	4.2500	4
95	11	24	4.2500	5
96	12	25	4.2500	4
97	13	26	4.2500	3
98	14	27	3.7500	6



99	15	28	3.7500	4
100	16	29	3.7500	4
101	17	30	3.7500	5
102	18	31	3.7500	4
103	19	32	3.7500	5
104	20	33	3.7500	4
105	21	34	3.7500	4
106	22	35	3.7500	5
107	23	36	3.7500	4
108	24	37	3.7500	5
109	25	38	3.7500	4
110	26	39	3.7500	3
111	27	40	3.7500	6
112	28	41	3.7500	4
113	29	42	3.7500	4
114	30	43	3.7500	5
115	31	44	3.7500	4
116	32	45	3.7500	5
117	33	46	3.7500	4
118	34	47	3.7500	4
119	35	48	3.7500	5
120	36	49	3.7500	4
121	37	50	3.7500	5
122	38	51	3.7500	4
123	39	52	3.7500	3
124	40	53	4.2500	3
125	41	54	4.2500	4
126	42	55	4.2500	4
127	43	56	4.2500	5
128	44	57	4.2500	4
129	45	58	4.2500	5
130	46	59	4.2500	4
131	47	60	4.2500	4
132	48	61	4.2500	5
133	49	62	4.2500	4
134	50	63	4.2500	5
135	51	64	4.2500	4
136	52	65	4.2500	3
137	53	66	5.0000	6
138	54	67	5.0000	4
139	55	68	5.0000	5
140	56	69	5.0000	5
141	57	70	5.0000	4
142	58	71	5.0000	5
143	59	72	5.0000	4
144	60	73	5.0000	4
145	61	74	5.0000	5
146	62	75	5.0000	4
147	63	76	5.0000	5
148	64	77	5.0000	4
149	65	78	5.0000	6
150	66	79	5.0000	6
151	67	80	5.0000	4
152	68	81	5.0000	4
153	69	82	5.0000	4
154	70	83	5.0000	4
155	71	84	5.0000	4
156	72	85	5.0000	4
157	73	86	5.0000	5
158	74	87	5.0000	5

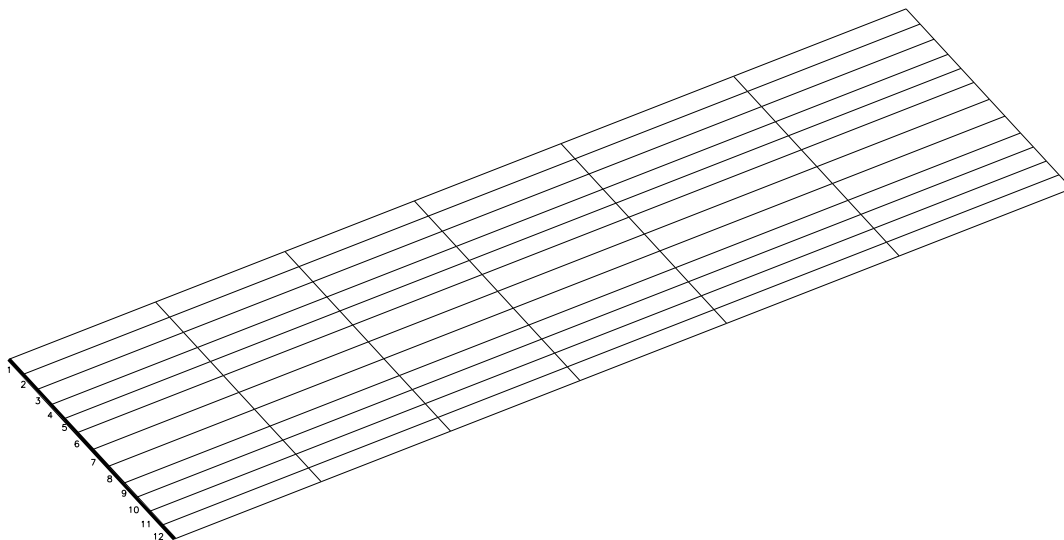


159	75	88	5.0000	4
160	76	89	5.0000	5
161	77	90	5.0000	4
162	78	91	5.0000	6



P R U R E Z Y - charakteristiky

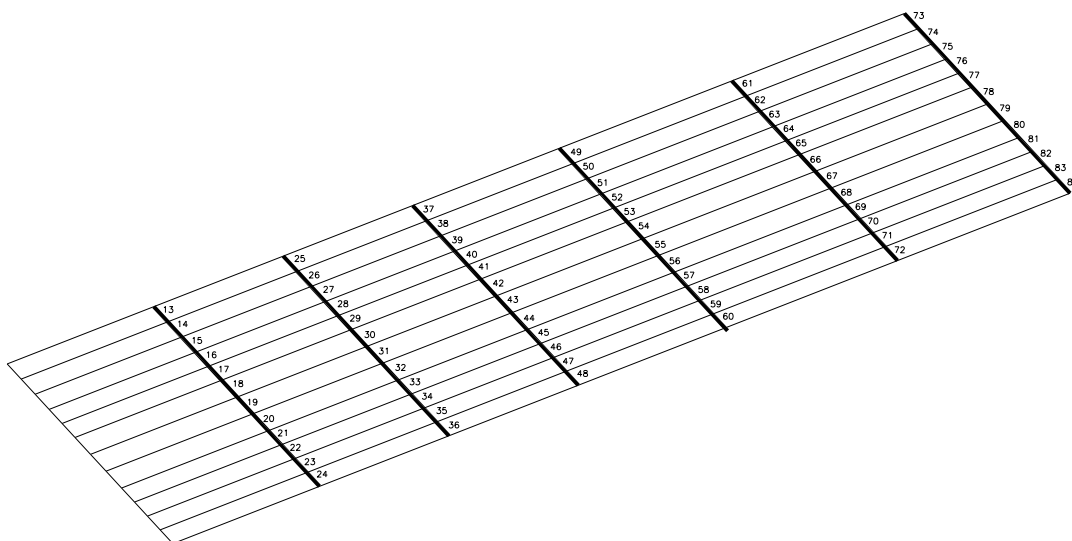
PRUREZ c. 1 (HE-A) rotace prurezu Rx[st] = 0.00
plocha A[m2] = 1.98122E-02 mom.setr. Ix[m4] = 2.56801E-06
mom.setr. Iy[m4] = 8.72379E-04 mom.setr. Iz[m4] = 1.03689E-04
mom.setr. Iw[m8] = 5.64305E-06
Prvek 1 HE-A 500 ocel 37
poloha teziste Y = 150.00 Z = -245.00



PRUREZ c. 2 (HE-B) rotace prurezu Rx[st] = 0.00
plocha A[m2] = 2.70542E-02 mom.setr. Ix[m4] = 5.72081E-06
mom.setr. Iy[m4] = 1.71437E-03 mom.setr. Iz[m4] = 1.35325E-04
mom.setr. Iw[m8] = 1.09654E-05
Prvek 1 HE-B 600 ocel 37



poloha teziste Y = 150.00 Z = -300.00



PRUREZ c. 3 (IPE)

plocha A[m2] = 2.01562E-03

mom.setr. Iy[m4] = 8.72415E-06

mom.setr. Iw[m8] = 3.95887E-09

Prvek 1 IPE 160

poloha teziste Y = 41.00

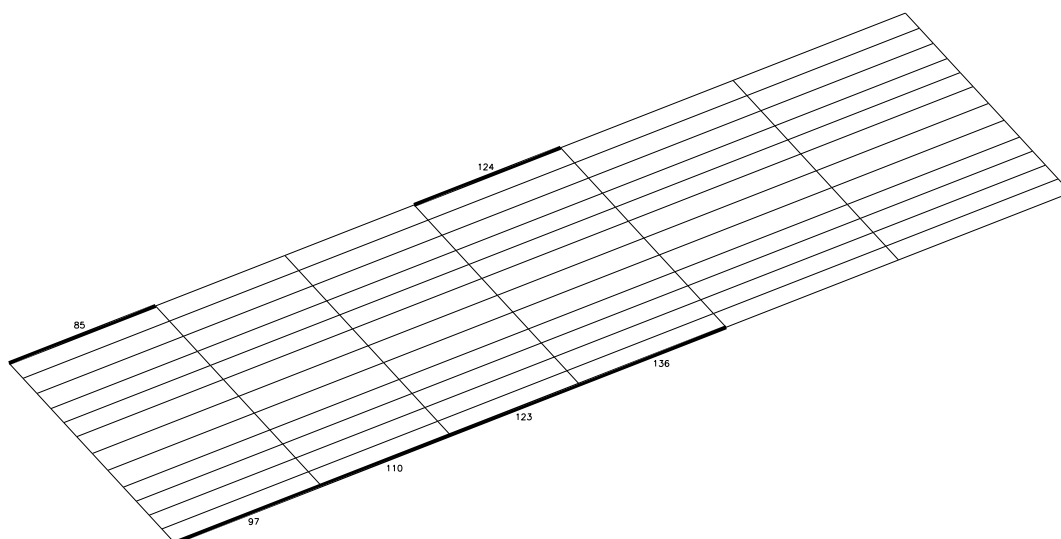
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.57999E-08

mom.setr. Iz[m4] = 6.83412E-07

ocel 37

Z = -80.00



PRUREZ c. 4 (IPE)

plocha A[m2] = 3.92965E-03

mom.setr. Iy[m4] = 3.91143E-05

mom.setr. Iw[m8] = 3.73912E-08

Prvek 1 IPE 240

poloha teziste Y = 60.00

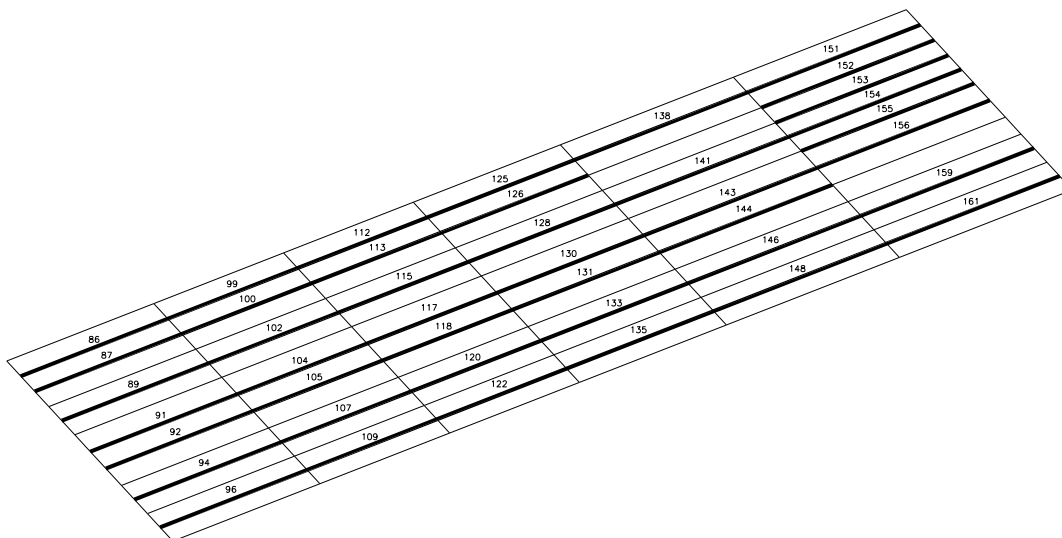
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.31000E-07

mom.setr. Iz[m4] = 2.83805E-06

ocel 37

Z = -120.00



PRUREZ c. 5 (IPE)

plocha A[m2] = 4.61253E-03

mom.setr. Iy[m4] = 5.81548E-05

mom.setr. Iw[m8] = 7.05779E-08

Prvek 1 IPE 270

poloha teziste Y = 67.50

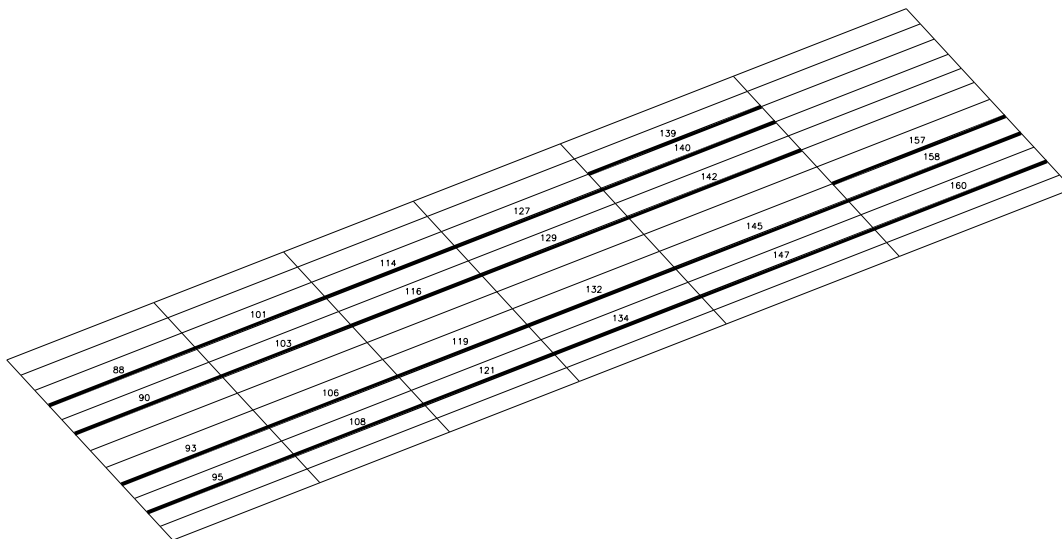
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 1.61000E-07

mom.setr. Iz[m4] = 4.20045E-06

ocel 37

Z = -135.00



PRUREZ c. 6 (I svar)

plocha A[m2] = 2.68500E-02

mom.setr. Iy[m4] = 1.98787E-03

mom.setr. Iw[m8] = 1.29735E-05

Prvek 1 P 30.300

Prvek 2 P 15.590

Prvek 3 P 30.300

poloha teziste Y = 150.00

rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 7.48763E-06

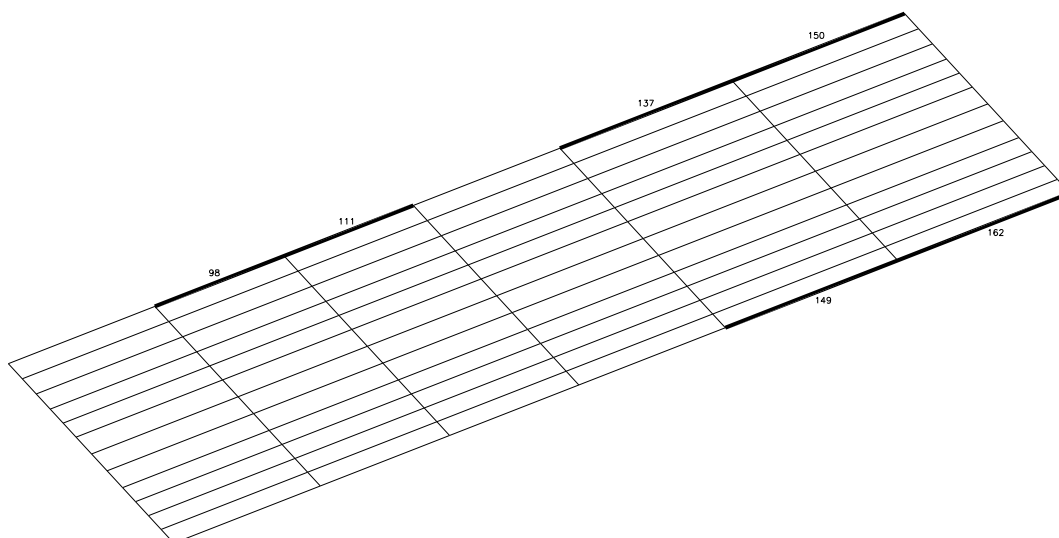
mom.setr. Iz[m4] = 1.35166E-04

ocel 52

ocel 52

ocel 52

Z = -325.00



M A T E R I A L

Material c. 1 ocel 37

merna hmotnost	[kg/m ³]	: 7850.000
pevnost v tahu	[MPa]	: 210.000
pevnost v tlaku	[MPa]	: 210.000
pevnost ve smyku	[MPa]	: 126.000
modul pružnosti	[MPa]	: 210000.000
Poissonuv součinitel	:	: 0.300
Součinitel tep. roztažnosti	:	: 1.5E-0003

M A T E R I A L

Material c. 2 ocel 52

tlak

merna hmotnost	[kg/m ³]	: 7850.000
pevnost v tahu	[MPa]	: 290.000
pevnost v tlaku	[MPa]	: 290.000
pevnost ve smyku	[MPa]	: 174.000
modul pružnosti	[MPa]	: 210000.000
Poissonuv součinitel	:	: 0.300
Součinitel tep. roztažnosti	:	: 1.5E-0003

Typický uzel : XYZRxRyRz

Typický prut : XYZMxMyMz

prut	25:	zac kl.: MyMz
prut	61:	zac kl.: MyMz
prut	72:	kon kl.: MyMz



prut	85:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	86:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	87:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	88:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	89:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	90:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	91:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	92:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	93:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	94:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	95:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	96:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	97:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	99:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	100:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	101:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	102:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	103:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	104:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	105:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	106:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	107:	zac	kl.:	MyMz	kon	kl.:	MyMz
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prut	109:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	110:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	112:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	113:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	114:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	115:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	116:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	117:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	118:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	119:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	120:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	121:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	122:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	123:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	124:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	125:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	126:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	127:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	128:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	129:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	130:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	131:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	132:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	133:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	134:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	135:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	136:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	138:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	139:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	140:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	141:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	142:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	143:	zac	kl.:	MyMz	kon	kl.:	MyMz
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prut	145:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	146:	zac	kl.:	MyMz	kon	kl.:	MyMz
prut	147:	zac	kl.:	MyMz	kon	kl.:	MyMz



prut 148: zac kl.: MyMz kon kl.: MyMz
prut 151: zac kl.: MyMz kon kl.: MyMz
prut 152: zac kl.: MyMz kon kl.: MyMz
prut 153: zac kl.: MyMz kon kl.: MyMz
prut 154: zac kl.: MyMz kon kl.: MyMz
prut 155: zac kl.: MyMz kon kl.: MyMz
prut 156: zac kl.: MyMz kon kl.: MyMz
prut 157: zac kl.: MyMz kon kl.: MyMz
prut 158: zac kl.: MyMz kon kl.: MyMz
prut 159: zac kl.: MyMz kon kl.: MyMz
prut 160: zac kl.: MyMz kon kl.: MyMz
prut 161: zac kl.: MyMz kon kl.: MyMz

P O D P O R Y

1	1	X Y Z
2	13	X Y Z Rx
3	14	X Y Z
4	26	X Y Z
5	39	X Y Z
6	40	X Y Z
7	52	X Y Z
8	53	X Y Z
9	65	X Y Z
10	79	X Y Z
11	91	X Y Z

Z A T E Z O V A C I S T A V Y

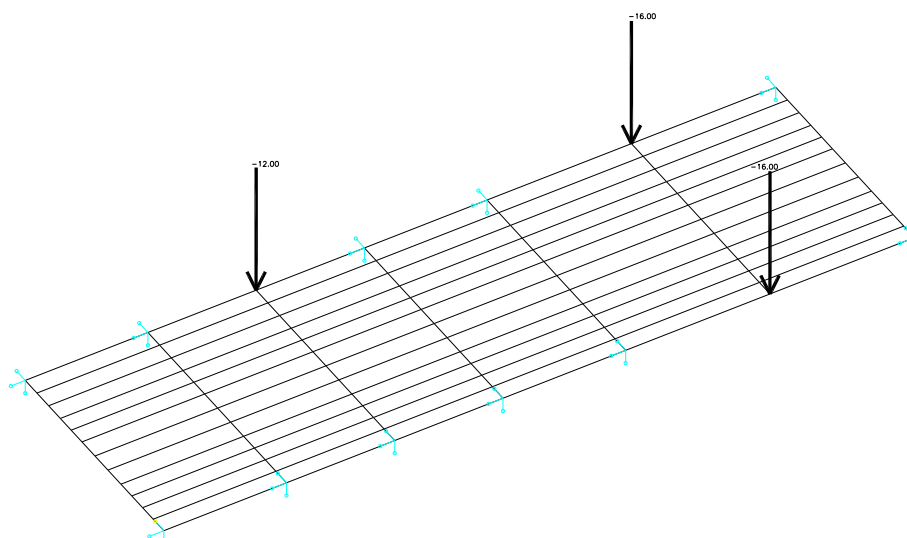
1.	TIHA	/ 1.350	stale
2.	PODLAHA		stale
3.	STALE REZERVA		stale
4.	UZITNE		stale
5.	TECHNOLOGIE		stale
6.	SNIH		stale
7.	VITR X		stale
8.	VITR Y		stale

ZATIZENI V UZLECH - stav 2 (PODLAHA)

uzel	Px[kN]	Py[kN]	Pz[kN]	Mx[kNm]	My[kNm]	Mz[kNm]	koef
27			-12.00				1.35
66			-16.00				1.35
78			-24.80				1.35

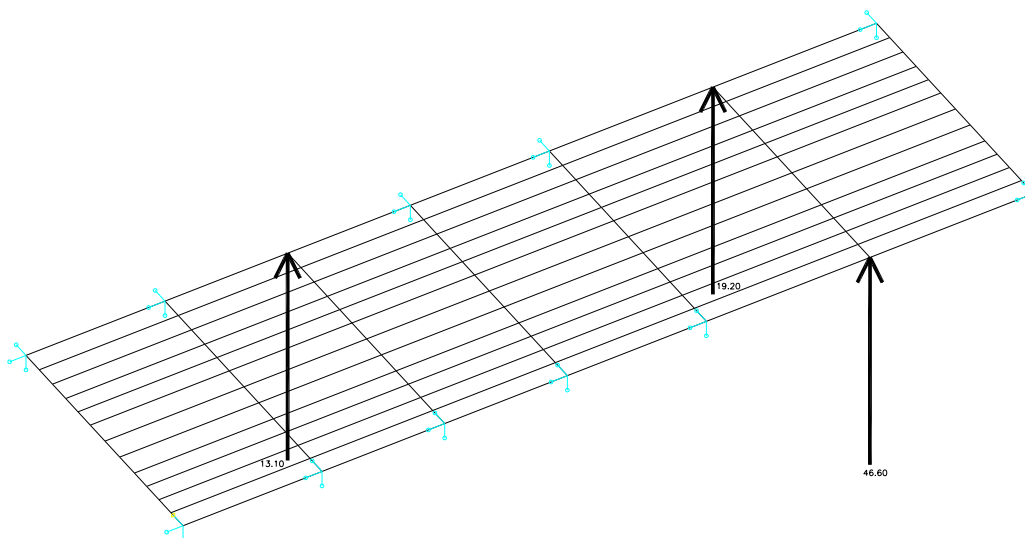
ZATIZENI V UZLECH - stav 6 (SNIH)

uzel	Px[kN]	Py[kN]	Pz[kN]	Mx[kNm]	My[kNm]	Mz[kNm]	koef
27			-12.00				1.50
66			-16.00				1.50
78			-16.00				1.50



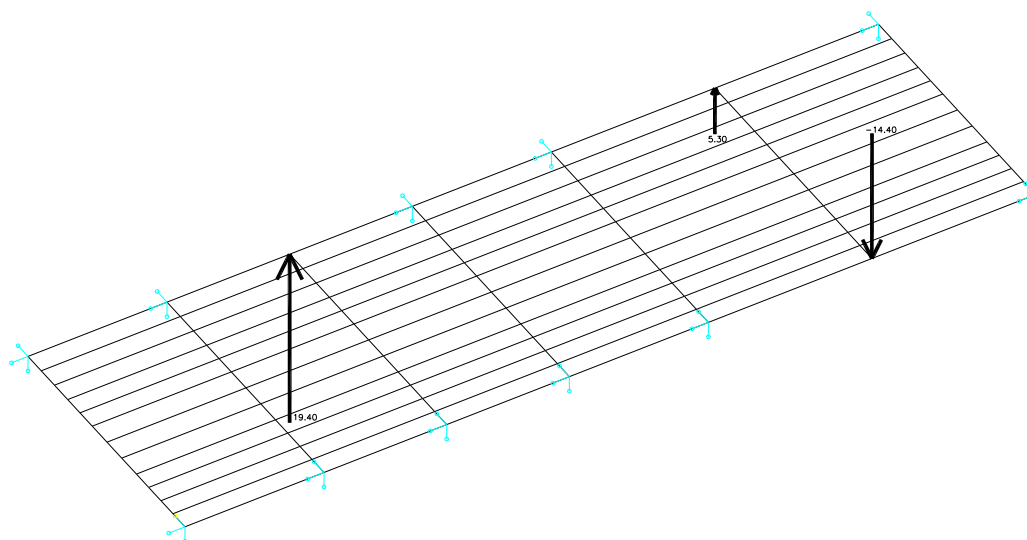
ZATIZENI V UZLECH - stav 7 (VITR X)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
27			13.10				1.50
66			19.20				1.50
78			46.60				1.50



ZATIZENI V UZLECH - stav 8 (VITR Y)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
27			19.40				1.50
66			5.30				1.50
78			-14.40				1.50



OSAMELE IMPULZY - stav 5 (TECHNOLOGIE)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
139	sil			-20.0	glob	1.60m		1.50
140	sil			-20.0	glob	1.60m		1.50
157	sil			-20.0	glob	1.20m		1.50
158	sil			-20.0	glob	1.20m		1.50

SPOJITE IMPULZY - stav 1 (TIHA / 1.350)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
2	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
3	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
4	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
5	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
6	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
7	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
8	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
9	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
10	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
11	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
12	sil			-1.56	glob	0.00%		1.35
				-1.56	del	1.00%		
13	sil			-2.12	glob	0.00%		1.35
				-2.12	del	1.00%		
14	sil			-2.12	glob	0.00%		1.35
				-2.12	del	1.00%		
15	sil			-2.12	glob	0.00%		1.35
				-2.12	del	1.00%		



16 sil	-2.12 glob	0.00%	1.35
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86 sil	-0.31 glob	0.00%	1.35
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	-0.31 del	1.00%	
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	-0.16 del	1.00%	
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	-2.11 del	1.00%	
112 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
113 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
114 sil	-0.36 glob	0.00%	1.35
	-0.36 del	1.00%	
115 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
116 sil	-0.36 glob	0.00%	1.35
	-0.36 del	1.00%	
117 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
118 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
119 sil	-0.36 glob	0.00%	1.35
	-0.36 del	1.00%	
120 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
121 sil	-0.36 glob	0.00%	1.35
	-0.36 del	1.00%	
122 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
123 sil	-0.16 glob	0.00%	1.35
	-0.16 del	1.00%	
124 sil	-0.16 glob	0.00%	1.35
	-0.16 del	1.00%	
125 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
126 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
127 sil	-0.36 glob	0.00%	1.35
	-0.36 del	1.00%	
128 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
129 sil	-0.36 glob	0.00%	1.35
	-0.36 del	1.00%	
130 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
131 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
132 sil	-0.36 glob	0.00%	1.35
	-0.36 del	1.00%	
133 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	
134 sil	-0.36 glob	0.00%	1.35
	-0.36 del	1.00%	
135 sil	-0.31 glob	0.00%	1.35
	-0.31 del	1.00%	



136	sil	-0.16	glob	0.00%	1.35
		-0.16	del	1.00%	
137	sil	-2.11	glob	0.00%	1.35
		-2.11	del	1.00%	
138	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
139	sil	-0.36	glob	0.00%	1.35
		-0.36	del	1.00%	
140	sil	-0.36	glob	0.00%	1.35
		-0.36	del	1.00%	
141	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
142	sil	-0.36	glob	0.00%	1.35
		-0.36	del	1.00%	
143	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
144	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
145	sil	-0.36	glob	0.00%	1.35
		-0.36	del	1.00%	
146	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
147	sil	-0.36	glob	0.00%	1.35
		-0.36	del	1.00%	
148	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
149	sil	-2.11	glob	0.00%	1.35
		-2.11	del	1.00%	
150	sil	-2.11	glob	0.00%	1.35
		-2.11	del	1.00%	
151	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
152	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
153	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
154	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
155	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
156	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
157	sil	-0.36	glob	0.00%	1.35
		-0.36	del	1.00%	
158	sil	-0.36	glob	0.00%	1.35
		-0.36	del	1.00%	
159	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
160	sil	-0.36	glob	0.00%	1.35
		-0.36	del	1.00%	
161	sil	-0.31	glob	0.00%	1.35
		-0.31	del	1.00%	
162	sil	-2.11	glob	0.00%	1.35
		-2.11	del	1.00%	

SPOJITE IMPULZY - stav 2 (PODLAHA)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
85	sil		-0.22	glob	0.00%			1.35
			-0.22	prum	1.00%			



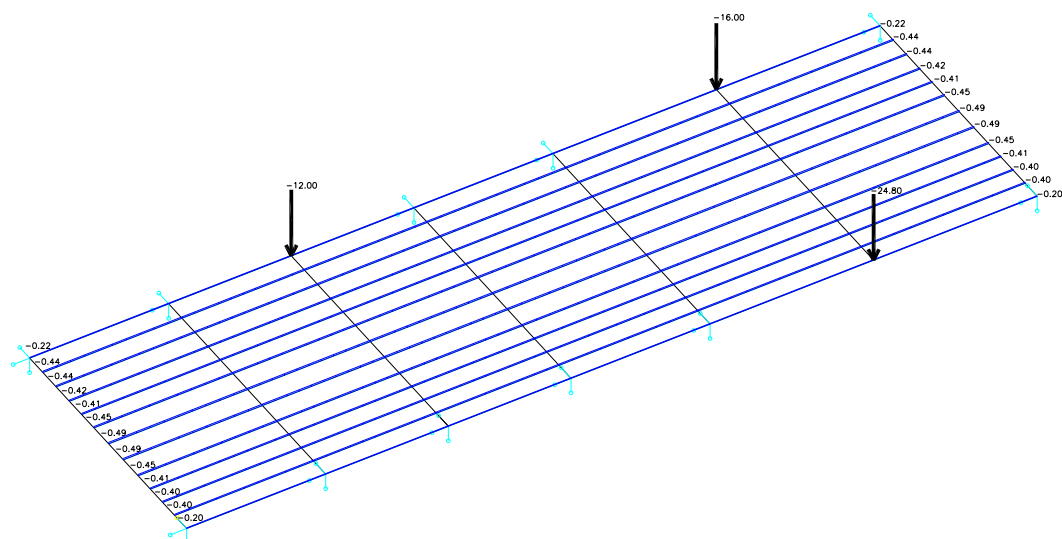
86 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
87 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
88 sil	-0.42 glob	0.00%	1.35
	-0.42 prum	1.00%	
89 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
90 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
91 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
92 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
93 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
94 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
95 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
96 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
97 sil	-0.20 glob	0.00%	1.35
	-0.20 prum	1.00%	
98 sil	-0.22 glob	0.00%	1.35
	-0.22 prum	1.00%	
99 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
100 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
101 sil	-0.42 glob	0.00%	1.35
	-0.42 prum	1.00%	
102 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
103 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
104 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
105 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
106 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
107 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
108 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
109 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
110 sil	-0.20 glob	0.00%	1.35
	-0.20 prum	1.00%	
111 sil	-0.22 glob	0.00%	1.35
	-0.22 prum	1.00%	
112 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
113 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
114 sil	-0.42 glob	0.00%	1.35
	-0.42 prum	1.00%	
115 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	



116 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
117 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
118 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
119 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
120 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
121 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
122 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
123 sil	-0.20 glob	0.00%	1.35
	-0.20 prum	1.00%	
124 sil	-0.22 glob	0.00%	1.35
	-0.22 prum	1.00%	
125 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
126 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
127 sil	-0.42 glob	0.00%	1.35
	-0.42 prum	1.00%	
128 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
129 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
130 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
131 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
132 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
133 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
134 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
135 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
136 sil	-0.20 glob	0.00%	1.35
	-0.20 prum	1.00%	
137 sil	-0.22 glob	0.00%	1.35
	-0.22 prum	1.00%	
138 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
139 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
140 sil	-0.42 glob	0.00%	1.35
	-0.42 prum	1.00%	
141 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
142 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
143 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
144 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
145 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	



146 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
147 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
148 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
149 sil	-0.20 glob	0.00%	1.35
	-0.20 prum	1.00%	
150 sil	-0.22 glob	0.00%	1.35
	-0.22 prum	1.00%	
151 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
152 sil	-0.44 glob	0.00%	1.35
	-0.44 prum	1.00%	
153 sil	-0.42 glob	0.00%	1.35
	-0.42 prum	1.00%	
154 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
155 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
156 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
157 sil	-0.49 glob	0.00%	1.35
	-0.49 prum	1.00%	
158 sil	-0.45 glob	0.00%	1.35
	-0.45 prum	1.00%	
159 sil	-0.41 glob	0.00%	1.35
	-0.41 prum	1.00%	
160 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
161 sil	-0.40 glob	0.00%	1.35
	-0.40 prum	1.00%	
162 sil	-0.20 glob	0.00%	1.35
	-0.20 prum	1.00%	



SPOJITE IMPULZY - stav 3 (STALE REZERVA)								
prut	typ	X	Y	Z	sourX	exY	exZ	koef
85 sil			-0.97	glob	0.00%			1.35
			-0.97	prum	1.00%			
86 sil			-2.03	glob	0.00%			1.35



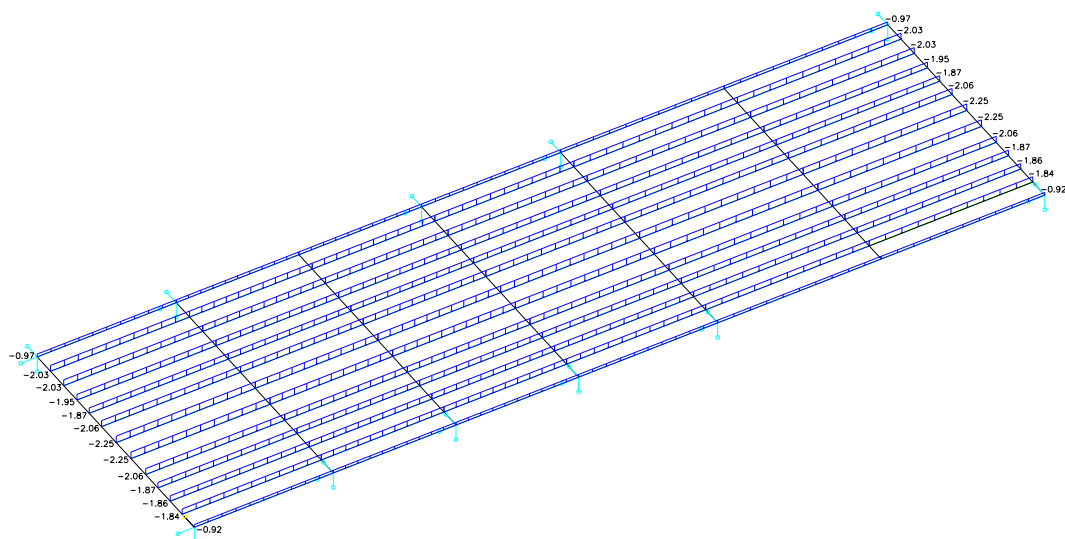
	-2.03	prum	1.00%	
87 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
88 sil	-1.95	glob	0.00%	1.35
	-1.95	prum	1.00%	
89 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
90 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
91 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
92 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
93 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
94 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
95 sil	-1.86	glob	0.00%	1.35
	-1.86	prum	1.00%	
96 sil	-1.84	glob	0.00%	1.35
	-1.84	prum	1.00%	
97 sil	-0.92	glob	0.00%	1.35
	-0.92	prum	1.00%	
98 sil	-0.97	glob	0.00%	1.35
	-0.97	prum	1.00%	
99 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
100 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
101 sil	-1.95	glob	0.00%	1.35
	-1.95	prum	1.00%	
102 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
103 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
104 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
105 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
106 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
107 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
108 sil	-1.86	glob	0.00%	1.35
	-1.86	prum	1.00%	
109 sil	-1.84	glob	0.00%	1.35
	-1.84	prum	1.00%	
110 sil	-0.92	glob	0.00%	1.35
	-0.92	prum	1.00%	
111 sil	-0.97	glob	0.00%	1.35
	-0.97	prum	1.00%	
112 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
113 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
114 sil	-1.95	glob	0.00%	1.35
	-1.95	prum	1.00%	
115 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
116 sil	-2.06	glob	0.00%	1.35



	-2.06	prum	1.00%	
117 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
118 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
119 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
120 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
121 sil	-1.86	glob	0.00%	1.35
	-1.86	prum	1.00%	
122 sil	-1.84	glob	0.00%	1.35
	-1.84	prum	1.00%	
123 sil	-0.92	glob	0.00%	1.35
	-0.92	prum	1.00%	
124 sil	-0.97	glob	0.00%	1.35
	-0.97	prum	1.00%	
125 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
126 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
127 sil	-1.95	glob	0.00%	1.35
	-1.95	prum	1.00%	
128 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
129 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
130 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
131 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
132 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
133 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
134 sil	-1.86	glob	0.00%	1.35
	-1.86	prum	1.00%	
135 sil	-1.84	glob	0.00%	1.35
	-1.84	prum	1.00%	
136 sil	-0.92	glob	0.00%	1.35
	-0.92	prum	1.00%	
137 sil	-0.97	glob	0.00%	1.35
	-0.97	prum	1.00%	
138 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
139 sil	-2.03	glob	0.00%	1.35
	-2.03	prum	1.00%	
140 sil	-1.95	glob	0.00%	1.35
	-1.95	prum	1.00%	
141 sil	-1.87	glob	0.00%	1.35
	-1.87	prum	1.00%	
142 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
143 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
144 sil	-2.25	glob	0.00%	1.35
	-2.25	prum	1.00%	
145 sil	-2.06	glob	0.00%	1.35
	-2.06	prum	1.00%	
146 sil	-1.87	glob	0.00%	1.35



147 sil	-1.87 prum	1.00%	
	-1.86 glob	0.00%	1.35
	-1.86 prum	1.00%	
148 sil	-1.84 glob	0.00%	1.35
	-1.84 prum	1.00%	
149 sil	-0.92 glob	0.00%	1.35
	-0.92 prum	1.00%	
150 sil	-0.97 glob	0.00%	1.35
	-0.97 prum	1.00%	
151 sil	-2.03 glob	0.00%	1.35
	-2.03 prum	1.00%	
152 sil	-2.03 glob	0.00%	1.35
	-2.03 prum	1.00%	
153 sil	-1.95 glob	0.00%	1.35
	-1.95 prum	1.00%	
154 sil	-1.87 glob	0.00%	1.35
	-1.87 prum	1.00%	
155 sil	-2.06 glob	0.00%	1.35
	-2.06 prum	1.00%	
156 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
157 sil	-2.25 glob	0.00%	1.35
	-2.25 prum	1.00%	
158 sil	-2.06 glob	0.00%	1.35
	-2.06 prum	1.00%	
159 sil	-1.87 glob	0.00%	1.35
	-1.87 prum	1.00%	
160 sil	-1.86 glob	0.00%	1.35
	-1.86 prum	1.00%	
161 sil	-1.84 glob	0.00%	1.35
	-1.84 prum	1.00%	
162 sil	-0.92 glob	0.00%	1.35
	-0.92 prum	1.00%	



SPOJITE IMPULZY - stav 4 (UZITNE)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
85 sil			-3.57	glob	0.00%			1.50
			-3.57	prum	1.00%			
86 sil			-6.75	glob	0.00%			1.50
			-6.75	prum	1.00%			



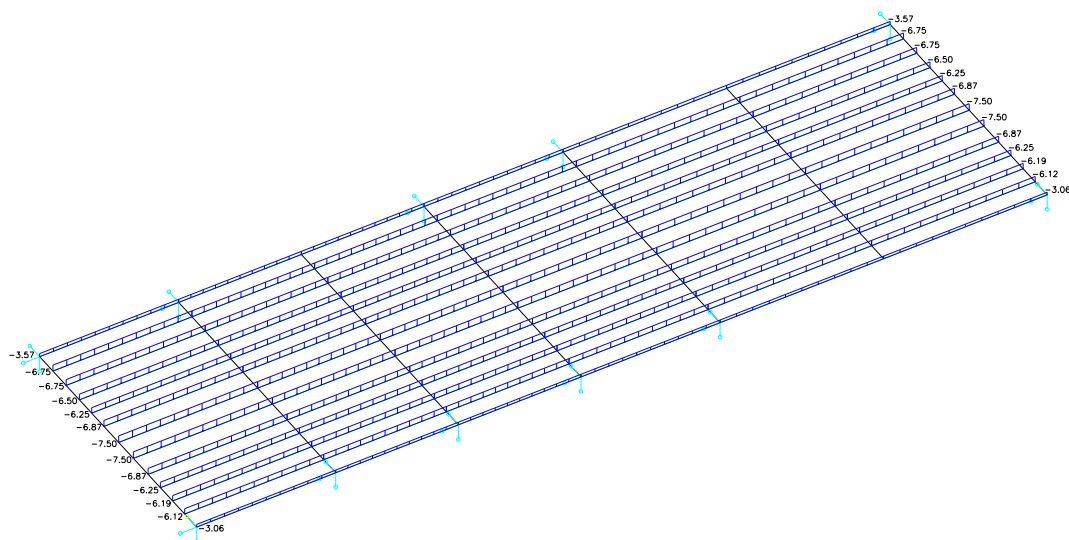
87 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
88 sil	-6.50 glob	0.00%	1.50
	-6.50 prum	1.00%	
89 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
90 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
91 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
92 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
93 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
94 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
95 sil	-6.19 glob	0.00%	1.50
	-6.19 prum	1.00%	
96 sil	-6.13 glob	0.00%	1.50
	-6.13 prum	1.00%	
97 sil	-3.06 glob	0.00%	1.50
	-3.06 prum	1.00%	
98 sil	-3.57 glob	0.00%	1.50
	-3.57 prum	1.00%	
99 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
100 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
101 sil	-6.50 glob	0.00%	1.50
	-6.50 prum	1.00%	
102 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
103 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
104 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
105 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
106 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
107 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
108 sil	-6.19 glob	0.00%	1.50
	-6.19 prum	1.00%	
109 sil	-6.13 glob	0.00%	1.50
	-6.13 prum	1.00%	
110 sil	-3.06 glob	0.00%	1.50
	-3.06 prum	1.00%	
111 sil	-3.57 glob	0.00%	1.50
	-3.57 prum	1.00%	
112 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
113 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
114 sil	-6.50 glob	0.00%	1.50
	-6.50 prum	1.00%	
115 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
116 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	



117 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
118 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
119 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
120 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
121 sil	-6.19 glob	0.00%	1.50
	-6.19 prum	1.00%	
122 sil	-6.13 glob	0.00%	1.50
	-6.13 prum	1.00%	
123 sil	-3.06 glob	0.00%	1.50
	-3.06 prum	1.00%	
124 sil	-3.57 glob	0.00%	1.50
	-3.57 prum	1.00%	
125 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
126 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
127 sil	-6.50 glob	0.00%	1.50
	-6.50 prum	1.00%	
128 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
129 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
130 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
131 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
132 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
133 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
134 sil	-6.19 glob	0.00%	1.50
	-6.19 prum	1.00%	
135 sil	-6.13 glob	0.00%	1.50
	-6.13 prum	1.00%	
136 sil	-3.06 glob	0.00%	1.50
	-3.06 prum	1.00%	
137 sil	-3.57 glob	0.00%	1.50
	-3.57 prum	1.00%	
138 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
139 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
140 sil	-6.50 glob	0.00%	1.50
	-6.50 prum	1.00%	
141 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
142 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
143 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
144 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
145 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
146 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	



147 sil	-6.19 glob	0.00%	1.50
	-6.19 prum	1.00%	
148 sil	-6.13 glob	0.00%	1.50
	-6.13 prum	1.00%	
149 sil	-3.06 glob	0.00%	1.50
	-3.06 prum	1.00%	
150 sil	-3.57 glob	0.00%	1.50
	-3.57 prum	1.00%	
151 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
152 sil	-6.75 glob	0.00%	1.50
	-6.75 prum	1.00%	
153 sil	-6.50 glob	0.00%	1.50
	-6.50 prum	1.00%	
154 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
155 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
156 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
157 sil	-7.50 glob	0.00%	1.50
	-7.50 prum	1.00%	
158 sil	-6.87 glob	0.00%	1.50
	-6.87 prum	1.00%	
159 sil	-6.25 glob	0.00%	1.50
	-6.25 prum	1.00%	
160 sil	-6.19 glob	0.00%	1.50
	-6.19 prum	1.00%	
161 sil	-6.13 glob	0.00%	1.50
	-6.13 prum	1.00%	
162 sil	-3.06 glob	0.00%	1.50
	-3.06 prum	1.00%	

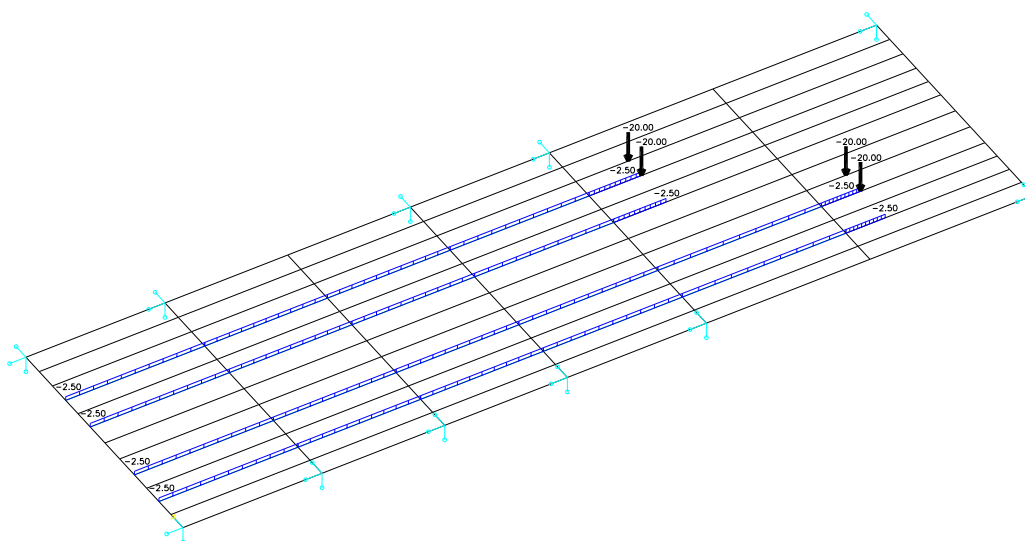


SPOJITE IMPULZY - stav 5 (TECHNOLOGIE)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
88 sil			-2.50	glob	0.00%			1.50
			-2.50	prum	1.00%			
90 sil			-2.50	glob	0.00%			1.50
			-2.50	prum	1.00%			
93 sil			-2.50	glob	0.00%			1.50



95 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
101 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
103 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
106 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
108 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
114 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
116 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
119 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
121 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
127 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
129 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
132 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
134 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
140 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00m	
142 sil	-2.50 prum	1.60m	1.50
	-2.50 glob	0.00m	
145 sil	-2.50 prum	1.60m	1.50
	-2.50 glob	0.00%	
147 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00%	
158 sil	-2.50 prum	1.00%	1.50
	-2.50 glob	0.00m	
160 sil	-2.50 prum	1.20m	1.50
	-2.50 glob	0.00m	
	-2.50 prum	1.20m	



K O M B I N A C E Z A T. S T A V U -



Kombinace c. 1

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 2

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 3

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 5

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0
zat. stav :	5	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 6

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 7

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	7	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 8

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 9



zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	0.90	vyber :	0
zat. stav :	6	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 10

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	0.90	vyber :	0
zat. stav :	7	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 11

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	0.90	vyber :	0
zat. stav :	8	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 12

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	0.90	vyber :	0
zat. stav :	7	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 13

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	0.90	vyber :	0
zat. stav :	8	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 14

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	0.80	vyber :	0
zat. stav :	6	stale	koef :	0.80	vyber :	0
zat. stav :	7	stale	koef :	0.80	vyber :	0

K O M B I N A C E Z A T. S T A V U -



Kombinace c. 15

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	1.00	vyber :	0
zat. stav :	5	stale	koef :	1.00	vyber :	0
zat. stav :	4	stale	koef :	0.80	vyber :	0
zat. stav :	6	stale	koef :	0.80	vyber :	0
zat. stav :	8	stale	koef :	0.80	vyber :	0

R E Z Y	N A	P R U T E C H			
prut	X	Ly	Lz	Lw	L1 stred Y stred Z

1	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
2	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
3	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
4	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
5	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
6	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
7	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
8	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
9	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
10	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
11	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
12	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
13	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
14	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
15	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
16	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
17	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
18	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
19	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
20	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
21	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
22	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
23	0.000%	12.000	1.000	1.000	
	1.000%	12.000	1.000	1.000	
24	0.000%	12.000	1.000	1.000	



	1.000%	12.000	1.000	1.000
25	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
26	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
27	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
28	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
29	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
30	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
31	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
32	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
33	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
34	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
35	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
36	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
37	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
38	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
39	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
40	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
41	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
42	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
43	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
44	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
45	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
46	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
47	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
48	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
49	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
50	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
51	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
52	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
53	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
54	0.000%	12.000	1.000	1.000



	1.000%	12.000	1.000	1.000
55	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
56	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
57	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
58	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
59	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
60	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
61	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
62	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
63	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
64	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
65	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
66	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
67	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
68	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
69	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
70	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
71	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
72	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
73	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
74	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
75	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
76	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
77	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
78	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
79	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
80	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
81	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
82	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
83	0.000%	12.000	1.000	1.000
	1.000%	12.000	1.000	1.000
84	0.000%	12.000	1.000	1.000



1.000% 12.000 1.000 1.000

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum				
sila X								
1	0.000	1	0.0	0.0	66.2	0.0	0.0	0.0
1	0.000	1	0.0	0.0	66.2	0.0	0.0	0.0
moment X								
1	0.000	1	0.0	0.0	66.2	0.0	0.0	0.0
1	0.000	1	0.0	0.0	66.2	0.0	0.0	0.0
sila Z								
12	0.612	3	0.0	0.0	-216.2	0.0	0.0	0.0
1	0.000	3	0.0	0.0	211.3	0.0	0.0	0.0
moment Y								
12	0.612	3	0.0	0.0	-216.2	0.0	0.0	0.0
7	0.000	3	0.0	0.0	-22.2	464.4	0.0	0.0
sila Y								
1	0.000	1	0.0	0.0	66.2	0.0	0.0	0.0
1	0.000	1	0.0	0.0	66.2	0.0	0.0	0.0
moment Z								
1	0.000	1	0.0	0.0	66.2	0.0	0.0	0.0
1	0.000	1	0.0	0.0	66.2	0.0	0.0	0.0

Vyhledano pro

Prurez : 1

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum				
sila X								
13	0.000	1	0.0	0.0	120.2	0.0	0.0	0.0
13	0.000	1	0.0	0.0	120.2	0.0	0.0	0.0
moment X								
76	0.000	13	0.0	0.0	34.2	112.5	0.0	0.0
52	0.000	13	0.0	0.0	52.3	276.7	0.0	0.0
sila Z								
72	0.612	3	0.0	0.0	-513.8	0.0	0.0	0.0
61	0.000	3	0.0	0.0	493.9	0.0	0.0	0.0
moment Y								
49	0.000	3	0.0	0.0	479.6	-0.2	0.0	0.0
66	0.750	3	0.0	0.0	59.9	1100.5	0.0	0.0
sila Y								
13	0.000	1	0.0	0.0	120.2	0.0	0.0	0.0
13	0.000	1	0.0	0.0	120.2	0.0	0.0	0.0
moment Z								
13	0.000	1	0.0	0.0	120.2	0.0	0.0	0.0
13	0.000	1	0.0	0.0	120.2	0.0	0.0	0.0

Vyhledano pro

Prurez : 2

Sled kombinací : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.radek	= minimim	2.radek	= maximum				



sila X								
85	0.000	1	0.0	0.0	3.9	0.0	0.0	0.0
85	0.000	1	0.0	0.0	3.9	0.0	0.0	0.0
moment X								
124	0.000	3	0.0	0.0	17.8	0.0	0.0	0.0
136	0.000	3	0.0	0.0	15.8	0.0	0.0	0.0
sila Z								
85	4.250	3	0.0	0.0	-17.8	0.0	0.0	0.0
85	0.000	3	0.0	0.0	17.8	0.0	0.0	0.0
moment Y								
97	4.250	2	0.0	0.0	-13.4	0.0	0.0	0.0
85	2.125	3	0.0	0.0	0.0	18.9	0.0	0.0
sila Y								
85	0.000	1	0.0	0.0	3.9	0.0	0.0	0.0
85	0.000	1	0.0	0.0	3.9	0.0	0.0	0.0
moment Z								
85	0.000	1	0.0	0.0	3.9	0.0	0.0	0.0
85	0.000	1	0.0	0.0	3.9	0.0	0.0	0.0

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..15

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
86	0.000	1	0.0	0.0	8.0	0.0	0.0	0.0
86	0.000	1	0.0	0.0	8.0	0.0	0.0	0.0
moment X								
161	0.000	3	0.0	0.0	37.1	0.0	0.0	0.0
151	0.000	3	0.0	0.0	40.8	0.0	0.0	0.0
sila Z								
143	5.000	3	0.0	0.0	-45.2	0.0	0.0	0.0
143	0.000	3	0.0	0.0	45.2	0.0	0.0	0.0
moment Y								
152	5.000	3	0.0	0.0	-40.8	0.0	0.0	0.0
143	2.500	3	0.0	0.0	0.0	56.5	0.0	0.0
sila Y								
86	0.000	1	0.0	0.0	8.0	0.0	0.0	0.0
86	0.000	1	0.0	0.0	8.0	0.0	0.0	0.0
moment Z								
86	0.000	1	0.0	0.0	8.0	0.0	0.0	0.0
86	0.000	1	0.0	0.0	8.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..15

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
88	0.000	1	0.0	0.0	15.8	0.0	0.0	0.0
88	0.000	1	0.0	0.0	15.8	0.0	0.0	0.0
moment X								
160	0.000	3	0.0	0.0	41.6	0.0	0.0	0.0
101	0.000	3	0.0	0.0	36.7	0.0	0.0	0.0



sila Z								
157	5.000	3	0.0	0.0	-52.6	0.0	0.0	0.0
158	0.000	3	0.0	0.0	68.5	0.0	0.0	0.0
moment Y								
160	5.000	2	0.0	0.0	-32.6	0.0	0.0	0.0
140	1.600	3	0.0	0.0	33.7	78.9	0.0	0.0
sila Y								
88	0.000	1	0.0	0.0	15.8	0.0	0.0	0.0
88	0.000	1	0.0	0.0	15.8	0.0	0.0	0.0
moment Z								
88	0.000	1	0.0	0.0	15.8	0.0	0.0	0.0
88	0.000	1	0.0	0.0	15.8	0.0	0.0	0.0

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..15

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim			2.radek = maximum		
sila X								
98	0.000	1	0.0	0.0	81.5	0.0	0.0	0.0
98	0.000	1	0.0	0.0	81.5	0.0	0.0	0.0
moment X								
162	0.000	3	0.0	-0.2	-273.6	1493.9	0.0	0.0
137	0.000	3	0.0	0.2	312.8	0.0	0.0	0.0
sila Z								
162	5.000	3	0.0	-0.2	-323.9	0.0	0.0	0.0
149	0.000	3	0.0	-0.2	323.9	0.0	0.0	0.0
moment Y								
162	5.000	13	0.0	0.0	-143.7	0.0	0.0	0.0
149	5.000	3	0.0	-0.2	273.6	1493.9	0.0	0.0
sila Y								
98	0.000	1	0.0	0.0	81.5	0.0	0.0	0.0
98	0.000	1	0.0	0.0	81.5	0.0	0.0	0.0
moment Z								
98	0.000	1	0.0	0.0	81.5	0.0	0.0	0.0
98	0.000	1	0.0	0.0	81.5	0.0	0.0	0.0

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..15

Vypočtové reakce v podporách

Uzel	ZS	Px	Py	Pz	Mx	My	Mz
		kN	kN	kN	kN.m	kN.m	kN.m

1	1		0.0	0.0	13.9	0.0	0.0
	2		0.0	0.0	7.5	0.0	0.0
	3		0.0	0.0	34.3	0.0	0.0
	4		0.0	0.0	128.1	0.0	0.0
	5		0.0	0.0	14.3	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0
13	1		0.0	0.0	14.1	0.0	0.0
	2		0.0	0.0	7.5	0.0	0.0
	3		0.0	0.0	34.4	0.0	0.0
	4		0.0	0.0	127.5	0.0	0.0



AFRY CZ s.r.o.

Modernizace teplárny Mladá Boleslav

Dokumentace pro vydání stavebního povolení

Datum: 12/2023

SO 203 – Úpravy kotelny K 80/K90 - OK

Revize 0

14	5		0.0	0.0	17.5	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	42.4	0.0	0.0	0.0
	2		0.0	0.0	28.7	0.0	0.0	0.0
	3		0.0	0.0	94.9	0.0	0.0	0.0
	4		0.0	0.0	354.3	0.0	0.0	0.0
26	5		0.0	0.0	39.7	0.0	0.0	0.0
	6		0.0	0.0	9.0	0.0	0.0	0.0
	7		0.0	0.0	-9.8	0.0	0.0	0.0
	8		0.0	0.0	-14.5	0.0	0.0	0.0
	1		0.0	0.0	22.2	0.0	0.0	0.0
	2		0.0	0.0	14.0	0.0	0.0	0.0
	3		0.0	0.0	64.8	0.0	0.0	0.0
	4		0.0	0.0	240.0	0.0	0.0	0.0
39	5		0.0	0.0	33.0	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	21.6	0.0	0.0	0.0
	2		0.0	0.0	13.2	0.0	0.0	0.0
	3		0.0	0.0	60.7	0.0	0.0	0.0
	4		0.0	0.0	225.0	0.0	0.0	0.0
40	5		0.0	0.0	30.9	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	42.4	0.0	0.0	0.0
	2		0.0	0.0	28.7	0.0	0.0	0.0
	3		0.0	0.0	94.9	0.0	0.0	0.0
	4		0.0	0.0	354.3	0.0	0.0	0.0
52	5		0.0	0.0	39.7	0.0	0.0	0.0
	6		0.0	0.0	9.0	0.0	0.0	0.0
	7		0.0	0.0	-9.8	0.0	0.0	0.0
	8		0.0	0.0	-14.6	0.0	0.0	0.0
	1		0.0	0.0	22.2	0.0	0.0	0.0
	2		0.0	0.0	14.0	0.0	0.0	0.0
	3		0.0	0.0	64.8	0.0	0.0	0.0
	4		0.0	0.0	240.0	0.0	0.0	0.0
53	5		0.0	0.0	33.0	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	49.0	0.0	0.0	0.0
	2		0.0	0.0	35.8	0.0	0.0	0.0
	3		0.0	0.0	115.1	0.0	0.0	0.0
	4		0.0	0.0	429.6	0.0	0.0	0.0
65	5		0.0	0.0	77.0	0.0	0.0	0.0
	6		0.0	0.0	12.0	0.0	0.0	0.0
	7		0.0	0.0	-14.4	0.0	0.0	0.0
	8		0.0	0.0	-4.0	0.0	0.0	0.0
	1		0.0	0.0	49.6	0.0	0.0	0.0
	2		0.0	0.0	41.7	0.0	0.0	0.0
	3		0.0	0.0	115.4	0.0	0.0	0.0
	4		0.0	0.0	427.5	0.0	0.0	0.0
	5		0.0	0.0	71.2	0.0	0.0	0.0
	6		0.0	0.0	12.0	0.0	0.0	0.0
	7		0.0	0.0	-35.0	0.0	0.0	0.0
	8		0.0	0.0	10.8	0.0	0.0	0.0



79	1		0.0	0.0	43.2	0.0	0.0	0.0
	2		0.0	0.0	28.3	0.0	0.0	0.0
	3		0.0	0.0	80.7	0.0	0.0	0.0
	4		0.0	0.0	301.5	0.0	0.0	0.0
	5		0.0	0.0	24.8	0.0	0.0	0.0
	6		0.0	0.0	12.0	0.0	0.0	0.0
	7		0.0	0.0	-14.4	0.0	0.0	0.0
	8		0.0	0.0	-4.0	0.0	0.0	0.0
91	1		0.0	0.0	43.8	0.0	0.0	0.0
	2		0.0	0.0	34.3	0.0	0.0	0.0
	3		0.0	0.0	81.0	0.0	0.0	0.0
	4		0.0	0.0	300.0	0.0	0.0	0.0
	5		0.0	0.0	37.4	0.0	0.0	0.0
	6		0.0	0.0	12.0	0.0	0.0	0.0
	7		0.0	0.0	-34.9	0.0	0.0	0.0
	8		0.0	0.0	10.8	0.0	0.0	0.0

Normové deformace v uzlech

Uzel Kombi		X	Y	Z	Rx	Ry	Rz
		mm	mm	mm	rad	rad	rad
extremy		1.radek = minimim		2.radek = maximum			
posuv X							
1	1	0.0	0.0	0.0	0.0000	0.0016	0.0000
1	1	0.0	0.0	0.0	0.0000	0.0016	0.0000
posuv Y							
1	1	0.0	0.0	0.0	0.0000	0.0016	0.0000
1	1	0.0	0.0	0.0	0.0000	0.0016	0.0000
posuv Z							
72	3	0.0	0.0	-34.9	0.0000	0.0001	0.0000
1	4	0.0	0.0	0.0	0.0000	0.0000	0.0000
rot X							
65	3	0.0	0.0	0.0	-0.0064	-0.0052	0.0000
91	3	0.0	0.0	0.0	0.0064	-0.0027	0.0000
rot Y							
77	3	0.0	0.0	-24.6	0.0000	-0.0054	0.0000
67	3	0.0	0.0	-24.1	0.0000	0.0055	0.0000
rot Z							
1	1	0.0	0.0	0.0	0.0000	0.0016	0.0000
1	1	0.0	0.0	0.0	0.0000	0.0016	0.0000

Vyhledáno pro

Sled uzlu : 1..91

Sled kombinaci : 1..15

POSOUZENÍ PRŮŘEZŮ

Vypočtové napětí na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 7	prurez	: 1	rez	: 0.00 [m]
1 1.00 3	-130.6			0.0	130.6
sigma max prut	: 7	prurez	: 1	rez	: 0.00 [m]
1 8.00 3	130.4			0.0	130.4
tau prut	: 12	prurez	: 1	rez	: 0.61 [m]
1 12.50 3	0.0			-40.9	40.9
sigma sr. prut	: 7	prurez	: 1	rez	: 0.00 [m]
1 1.00 3	-130.6			0.0	130.6

vyuziti prurezu : 62.2 % **HEA 500 VYHOVI !**



Vyhledano pro

Prurez : 1

Sled kombinaci : 1..15

Vypočtové napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 66	prurez : 2	rez : 0.75 [m]
1 1.00 3	-192.9		192.9
sigma max prut	: 66	prurez : 2	rez : 0.75 [m]
1 8.00 3	192.6		192.6
tau prut	: 72	prurez : 2	rez : 0.61 [m]
1 12.50 3	0.0		62.3
sigma sr. prut	: 66	prurez : 2	rez : 0.75 [m]
1 1.00 3	-192.9		192.9

vyuziti prurezu : 91.8 % **HEB 600** VYHOVI !

Vyhledano pro

Prurez : 2

Sled kombinaci : 1..15

Vypočtové napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 85	prurez : 3	rez : 2.13 [m]
1 1.00 3	-173.3		173.3
sigma max prut	: 85	prurez : 3	rez : 2.13 [m]
1 8.00 3	173.3		173.3
tau prut	: 124	prurez : 3	rez : 4.25 [m]
1 12.50 3	0.0		25.5
sigma sr. prut	: 85	prurez : 3	rez : 2.13 [m]
1 1.00 3	-173.3		173.3

vyuziti prurezu : 82.5 % **IPE 160** VYHOVI !

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..15

Vypočtové napeti na prutech rezy generovane

Prv. Vlak. Kom.	sigma x	tau	sig.srov.
	MPa	Mpa	Mpa

sigma min prut	: 143	prurez : 4	rez : 2.50 [m]
1 1.00 3	-173.5		173.5
sigma max prut	: 143	prurez : 4	rez : 2.50 [m]
1 8.00 3	173.5		173.5
tau prut	: 143	prurez : 4	rez : 5.00 [m]
1 12.50 3	0.0		34.4
sigma sr. prut	: 143	prurez : 4	rez : 2.50 [m]
1 1.00 3	-173.5		173.5

vyuziti prurezu : 82.6 % **IPE 240** VYHOVI !

Vyhledano pro

Prurez : 4

Sled kombinaci : 1..15



Vypočtové napětí na prutech rezy generované

Prv.	Vlak.	Kom.		sigma x		tau		sig.srov.
				MPa		Mpa		Mpa

sigma min prut	:	140	prurez	:	5	rez	:	1.60 [m]
1 1.00 3		-183.2			0.0			183.2
sigma max prut	:	140	prurez	:	5	rez	:	1.60 [m]
1 8.00 3		183.2			0.0			183.2
tau prut	:	158	prurez	:	5	rez	:	0.00 [m]
1 4.50 3		0.0			43.6			43.6
sigma sr. prut	:	140	prurez	:	5	rez	:	1.60 [m]
1 1.00 3		-183.2			0.0			183.2

vyuziti prurezu : 87.2 % **IPE 270** VYHOVI !

Vyhledano pro

Prurez : 5

Sled kombinaci : 1..15

Vypočtové napětí na prutech rezy generované

Prv.	Vlak.	Kom.		sigma x		tau		sig.srov.
				MPa		Mpa		Mpa

sigma min prut	:	149	prurez	:	6	rez	:	5.00 [m]
1 1.00 3		-244.2			0.0			244.2
sigma max prut	:	149	prurez	:	6	rez	:	5.00 [m]
3 11.00 3		244.2			0.0			244.2
tau prut	:	162	prurez	:	6	rez	:	5.00 [m]
2 7.50 3		0.0			-37.8			37.8
sigma sr. prut	:	149	prurez	:	6	rez	:	5.00 [m]
1 1.00 3		-244.2			0.0			244.2

vyuziti prurezu : 84.2 % **ISV 650/300/15/30** VYHOVI !

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..15



2.9 ZASTŘEŠENÍ

ZATÍŽENÍ

1. Zatěžovací stav

Vlastní tíha $\gamma = 1,35$

Generována počítačem

2. Zatěžovací stav

Zatížení stálé $\gamma = 1,35$

Opláštění

$$gz1 = 0,5 \times 2,0 = 1,0 \text{ kN/m}$$

$$gz2 = 0,5 \times 0,5 \times 2,0 = 0,5 \text{ kN/m}$$

$$gz3 = 0,5 \times 0,5 \times 4,25 = 1,062 \text{ kN/m}$$

$$gz4 = 0,5 \times 0,5 \times (4,25 + 3,75) = 2,0 \text{ kN/m}$$

$$gz5 = 0,5 \times 3,75 = 1,875 \text{ kN/m}$$

$$gz6 = 0,5 \times 1,2 = 0,6 \text{ kN/m}$$

$$gz7 = 0,5 \times 0,5 \times (4,25 + 5,0) = 2,312 \text{ kN/m}$$

$$gz8 = 0,5 \times 5,0 = 2,5 \text{ kN/m}$$

3. Zatěžovací stav

Zatížení stálé $\gamma = 1,35$

$$sk = 1,0 \text{ kN/m}^2$$

$$m1 = 0,8$$

$$gz1 = 1,0 \times 0,8 \times 0,5 \times 2,0 = 0,8 \text{ kN/m}$$

$$gz2 = 1,0 \times 0,8 \times 2,0 = 1,6 \text{ kN/m}$$

4. Zatěžovací stav

Zatížení větrem $x \gamma = 1,5$

VÝPOČET ZATÍŽENÍ VĚTREM PODLE ČSN EN 1991-1-4

Větrová oblast									
II		místo:	Mladá Boleslav			odečteno z mapy větrných oblastí ČR			
$V_{b,0} =$	25	m/s				výchozí základní rychlost větru			
Základní rychlost větru									
$V_b = V_{b,0} \cdot C_{dir} \cdot C_{season} =$	25	m/s				základní rychlost větru		4.2 (4	
$C_{dir} =$	1					součinitel směru větru		NA.2	
$C_{season} =$	1					součinitel ročního období		NA.2	

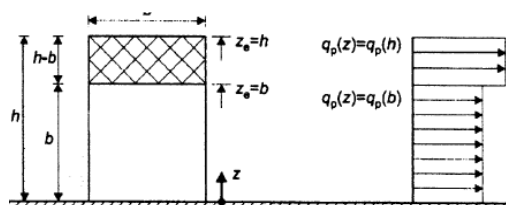


Kategorie terénu									
III									příloha A
$Z_0 =$	0,3	m							tab.4
$Z_{\min} =$	5,00	m							tab.4
$Z_{\max} =$	200	m							
$Z_{e1} =$	49,00	m				referenční výška			7.2.2
$Z_{e2} =$	36	m							
Součinitel terénu									
$k_r = 0,19 \cdot (Z_0/Z_{0,II})^{0,07} =$		0,215				součinitel terénu			4.3.2 (4)
$Z_{0,II} =$		0,05				kat. terénu II			tab.4
Součinitel drsnosti terénu									
$C_r (Z_{e1}) = k_r \cdot \ln(Z/Z_0) =$		1,098							4.3.2 (4)
		1,031							
Součinitel orografie									
$C_0 (Z) =$	1								4.3
Střední rychlost větru									
$V_m(Z_{e1}) = C_r(Z) \cdot C_0(Z) \cdot V_b =$		27,44 ms ⁻¹							4.3.1 (4)
Intenzita turbulence									
$I_v (Z_{e1}) = k_l / C_0(Z) \cdot \ln(Z/Z_0) =$		0,196		$k_l =$	1	součinitel turbulence			4.4 (4)

		0,209							
Maximální dynamický tlak větru									
$q_p(Z_{e1}) = [1+7I_v(z)].0.5\rho:v_m(z)^2 =$			1117	Nm ⁻²	=	1,117	kNm ⁻²		4.4 (4

Rozměry objektu									
h =	49,00 m	výška stavby							
b =	36,00 m	rozměr kolmo na hřeben - délka štítu							
l =	42,00 m	rozměr rovnoběžně s hřebenem							
l ₁ =	3,75 m	vzdálenost rámu							
l ₂ =	4,12 m	vzdálenost štítových sloupů							

PLATÍ 2.PŘÍPAD



Tlak větru na povrchy

$$W_e(Z_e) = C_{pe} \cdot q_p(Z_e)$$

$$q_{p1}(Z_e) = 1,12 \text{ kNm}^{-2}$$

$$5.2 (5.1)$$

$$q_{p2}(Z_e) = 0,00 \text{ kNm}^{-2}$$

Svislé stěny

$$7.2.2.$$

Vítr rovnoběžně s hřebenem

b =	36,00 m	návětrná strana
d =	42,00 m	
h =	49,00 m	výška
h/d =	1,17	
e =	36,00 m	

Vítr kolmo na hřeben

b =	42,00 m	návětrná strana
d =	36,00 m	
h =	49,00 m	výška
h/d =	1,36	
e =	42,00 m	

tab. 7.1 rovnoběžně s hřebenem

oblast	A	B	C	D	E
h/d	-1,2	-1,38	-0,5	0,80	-0,51
$W_{e1}(Z_e)$	-1,34	-1,54	-0,56	0,89	-0,57
$W_{e2}(Z_e)$	0,00	0,00	0,00	0,00	0,00

tab. 7.1 kolmo na hřeben

oblast	A	B	C	D	E
h/d	-1,2	-1,35	-0,5	0,80	-0,52
$W_{e1}(Z_e)$	-1,34	-1,50	-	0,89	-0,58
$W_{e2}(Z_e)$	0,00	0,00	0,00	0,00	0,00

Stěny rovnoběžně s hřebenem

Štíty

PLATÍ

$$e/5 = 7,20 \text{ m}$$

$$4/5e = 28,8 \text{ m}$$

$$d - e = 6,00 \text{ m}$$

Pohled pro e



$$e/5 = 8,40 \text{ m}$$

$$4/5e = 33,6 \text{ m}$$

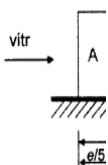
$$d - e = -6,00 \text{ m}$$

PLATÍ

$$e/5 = 7,20 \text{ m}$$

$$d - e/5 = 34,80 \text{ m}$$

Pohled pro e



$$e/5 = 8,40 \text{ m}$$

$$d - e/5 = 27,60 \text{ m}$$



$$\begin{aligned}g_{z1} &= 1,117 \times 1,8 \times 0,5 \times 2,0 = 2,01 \text{ kN/m} \\g_{z2} &= 1,117 \times 1,8 \times 2,0 = 4,02 \text{ kN/m} \\g_{z3} &= 1,117 \times (1,8 \times 0,6 + 1,2 \times 1,4) = 3,083 \text{ kN/m} \\g_{z4} &= 1,117 \times 1,2 \times 2,0 = 2,681 \text{ kN/m} \\g_{z5} &= 1,117 \times 1,2 \times 0,5 \times 2,0 = 1,34 \text{ kN/m} \\g_{x1} &= 1,117 \times 0,8 \times 0,5 \times 4,25 = 1,899 \text{ kN/m} \\g_{x2} &= 1,117 \times 0,8 \times 0,5 \times (4,25 + 3,75) = 3,574 \text{ kN/m} \\g_{x3} &= 1,117 \times 0,8 \times 3,75 = 3,351 \text{ kN/m} \\g_{x4} &= 1,117 \times 0,8 \times 0,5 \times (4,25 + 5,0) = 4,133 \text{ kN/m} \\g_{x5} &= 1,117 \times 0,8 \times 5,0 = 4,468 \text{ kN/m} \\g_{x6} &= 1,117 \times 0,51 \times 0,5 \times 4,25 = 0,902 \text{ kN/m} \\g_{x7} &= 1,117 \times 0,51 \times 0,5 \times (4,25 + 3,75) = 2,278 \text{ kN/m} \\g_{x8} &= 1,117 \times 0,51 \times 0,5 \times 3,75 = 2,136 \text{ kN/m} \\g_{x9} &= 1,117 \times 0,51 \times 0,5 \times (4,25 + 5,0) = 2,631 \text{ kN/m} \\g_{x10} &= 1,117 \times 0,51 \times 5,0 = 2,848 \text{ kN/m} \\g_{y1} &= 1,117 \times 1,2 \times 0,5 \times 4,0 = 2,681 \text{ kN/m} \\g_{y2} &= 1,117 \times 1,2 \times 4,0 = 5,362 \text{ kN/m}\end{aligned}$$

5. Zatěžovací stav

Zatížení větrem $\gamma = 1,5$

$$\begin{aligned}g_{z1} &= 1,117 \times 1,8 \times 0,5 \times 2,0 = 2,01 \text{ kN/m} \\g_{z2} &= 1,117 \times 1,8 \times 2,0 = 4,02 \text{ kN/m} \\g_{z3} &= 1,117 \times 0,7 \times 2,0 = 1,564 \text{ kN/m} \\g_{z4} &= 1,117 \times 0,7 \times 0,5 \times 2,0 = 0,782 \text{ kN/m} \\g_{z5} &= 1,117 \times 0,2 \times 0,5 \times 2,0 = 0,223 \text{ kN/m} \\g_{z6} &= 1,117 \times 0,2 \times 2,0 = 0,447 \text{ kN/m} \\g_{y1} &= 1,117 \times 0,8 \times 0,5 \times 4,0 = 1,787 \text{ kN/m} \\g_{y2} &= 1,117 \times 0,8 \times 4,0 = 3,574 \text{ kN/m} \\g_{x1} &= 1,117 \times 1,2 \times 0,5 \times 4,25 = 2,848 \text{ kN/m} \\g_{x2} &= 1,117 \times 1,2 \times 0,5 \times (4,25 + 3,75) = 4,468 \text{ kN/m} \\g_{x3} &= 1,117 \times (1,2 \times 0,5 \times 3,75 + 1,38 \times 0,5 \times 3,75) = 5,403 \text{ kN/m} \\g_{x4} &= 1,117 \times 1,38 \times 3,75 = 5,78 \text{ kN/m} \\g_{x5} &= 1,117 \times 1,38 \times 0,5 \times (4,25 + 3,75) = 6,166 \text{ kN/m} \\g_{x6} &= 1,117 \times 1,38 \times 0,5 \times (4,25 + 5,0) = 7,129 \text{ kN/m} \\g_{x7} &= 1,117 \times 1,38 \times 5,0 = 7,707 \text{ kN/m}\end{aligned}$$

6. Zatěžovací stav

Zatížení stálé - rezerva $\gamma = 1,35$

$$\begin{aligned}P_{z1} &= 6,5 \text{ kN} \\P_{z2} &= 23,7 \text{ kN} \\P_{z3} &= 9,6 \text{ kN} \\P_{z4} &= 23,3 \text{ kN} \\P_{z5} &= 9,7 \text{ kN} \\P_{z6} &= 7,2 \text{ kN} \\P_{z7} &= 2,7 \text{ kN} \\P_{z8} &= 2,6 \text{ kN}\end{aligned}$$

7. Zatěžovací stav

Zatížení užitné $\gamma = 1,5$

$$\begin{aligned}P_{z1} &= 85,0 \text{ kN} \\P_{z2} &= 85,4 \text{ kN} \\P_{z3} &= 160,0 \text{ kN} \\P_{z4} &= 236,7 \text{ kN} \\P_{z5} &= 250,0 \text{ kN} \\P_{z6} &= 285,0 \text{ kN} \\P_{z7} &= 286,4 \text{ kN} \\P_{z8} &= 200,0 \text{ kN} \\P_{z9} &= 201,0 \text{ kN}\end{aligned}$$



8. Zatěžovací stav

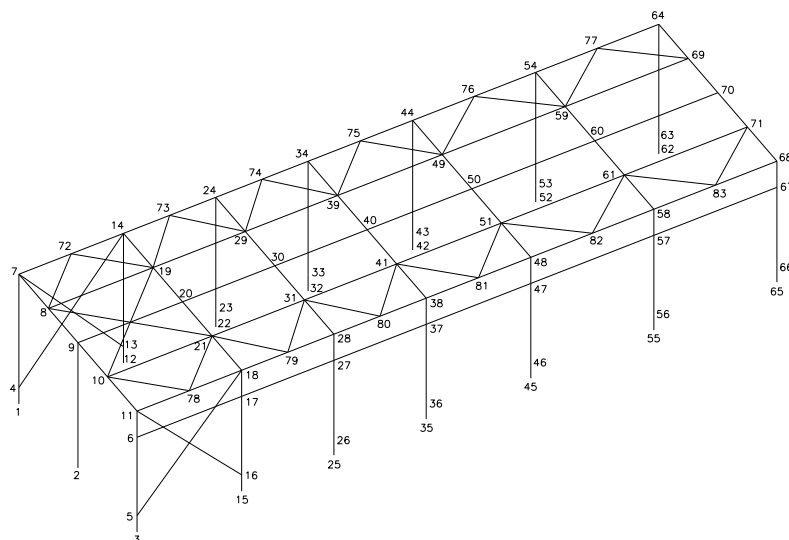
Zatížení technologií $\gamma = 1,5$ $P_{z1} = 11,7 \text{ kN}$ $P_{z2} = 9,6 \text{ kN}$ $P_{z3} = 22,0 \text{ kN}$ $P_{z4} = 26,4 \text{ kN}$ $P_{z5} = 20,6 \text{ kN}$ $P_{z6} = 47,4 \text{ kN}$ $P_{z7} = 51,4 \text{ kN}$ $P_{z8} = 24,9 \text{ kN}$ $P_{z9} = 16,5 \text{ kN}$ **TVAR KONSTRUKCE**

U Z L Y

uzel	X[m]	Y[m]	Z[m]	typ
1	0.0000	0.0000	0.0000	
2	4.0000	0.0000	0.0000	
3	8.0000	0.0000	0.0000	
4	0.0000	0.0000	0.7500	
5	8.0000	0.0000	0.7500	
6	8.0000	0.0000	4.3500	
7	0.0000	0.0000	5.9500	
8	2.0000	0.0000	5.8500	
9	4.0000	0.0000	5.7500	
10	6.0000	0.0000	5.6500	
11	8.0000	0.0000	5.5500	
12	0.0000	4.2500	0.0000	
13	0.0000	4.2500	0.7500	
14	0.0000	4.2500	5.9500	
15	8.0000	4.2500	0.0000	
16	8.0000	4.2500	0.7500	
17	8.0000	4.2500	4.3500	
18	8.0000	4.2500	5.5500	
19	2.0000	4.2500	5.8500	
20	4.0000	4.2500	5.7500	
21	6.0000	4.2500	5.6500	
22	0.0000	8.0000	0.0000	
23	0.0000	8.0000	0.7500	
24	0.0000	8.0000	5.9500	
25	8.0000	8.0000	0.0000	
26	8.0000	8.0000	0.7500	
27	8.0000	8.0000	4.3500	
28	8.0000	8.0000	5.5500	
29	2.0000	8.0000	5.8500	
30	4.0000	8.0000	5.7500	
31	6.0000	8.0000	5.6500	
32	0.0000	11.7500	0.0000	
33	0.0000	11.7500	0.7500	
34	0.0000	11.7500	5.9500	
35	8.0000	11.7500	0.0000	
36	8.0000	11.7500	0.7500	
37	8.0000	11.7500	4.3500	
38	8.0000	11.7500	5.5500	
39	2.0000	11.7500	5.8500	
40	4.0000	11.7500	5.7500	
41	6.0000	11.7500	5.6500	



42	0.0000	16.0000	0.0000
43	0.0000	16.0000	0.7500
44	0.0000	16.0000	5.9500
45	8.0000	16.0000	0.0000
46	8.0000	16.0000	0.7500
47	8.0000	16.0000	4.3500
48	8.0000	16.0000	5.5500
49	2.0000	16.0000	5.8500
50	4.0000	16.0000	5.7500
51	6.0000	16.0000	5.6500
52	0.0000	21.0000	0.0000
53	0.0000	21.0000	0.7500
54	0.0000	21.0000	5.9500
55	8.0000	21.0000	0.0000
56	8.0000	21.0000	0.7500
57	8.0000	21.0000	4.3500
58	8.0000	21.0000	5.5500
59	2.0000	21.0000	5.8500
60	4.0000	21.0000	5.7500
61	6.0000	21.0000	5.6500
62	0.0000	26.0000	0.0000
63	0.0000	26.0000	0.7500
64	0.0000	26.0000	5.9500
65	8.0000	26.0000	0.0000
66	8.0000	26.0000	0.7500
67	8.0000	26.0000	4.3500
68	8.0000	26.0000	5.5500
69	2.0000	26.0000	5.8500
70	4.0000	26.0000	5.7500
71	6.0000	26.0000	5.6500
72	0.0000	2.1250	5.9500
73	0.0000	6.1250	5.9500
74	0.0000	9.8750	5.9500
75	0.0000	13.8750	5.9500
76	0.0000	18.5000	5.9500
77	0.0000	23.5000	5.9500
78	8.0000	2.1250	5.5500
79	8.0000	6.1250	5.5500
80	8.0000	9.8750	5.5500
81	8.0000	13.8750	5.5500
82	8.0000	18.5000	5.5500
83	8.0000	23.5000	5.5500



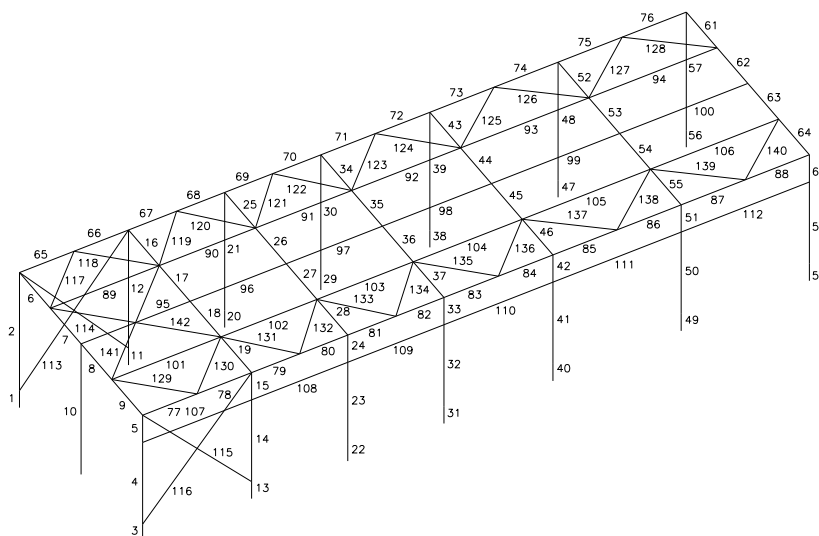
P R U T Y					
prut	zac	konec	delka[m]	prurez	typ
1	1	4	0.7500	1	
2	4	7	5.2000	1	
3	3	5	0.7500	1	
4	5	6	3.6000	1	
5	6	11	1.2000	1	
6	7	8	2.0025	2	
7	8	9	2.0025	2	
8	9	10	2.0025	2	
9	10	11	2.0025	2	
10	2	9	5.7500	3	
11	12	13	0.7500	1	
12	13	14	5.2000	1	
13	15	16	0.7500	1	
14	16	17	3.6000	1	
15	17	18	1.2000	1	
16	14	19	2.0025	2	
17	19	20	2.0025	2	
18	20	21	2.0025	2	
19	21	18	2.0025	2	
20	22	23	0.7500	1	
21	23	24	5.2000	1	
22	25	26	0.7500	1	
23	26	27	3.6000	1	
24	27	28	1.2000	1	
25	24	29	2.0025	2	
26	29	30	2.0025	2	
27	30	31	2.0025	2	
28	31	28	2.0025	2	
29	32	33	0.7500	1	
30	33	34	5.2000	1	
31	35	36	0.7500	1	
32	36	37	3.6000	1	
33	37	38	1.2000	1	
34	34	39	2.0025	2	
35	39	40	2.0025	2	
36	40	41	2.0025	2	
37	41	38	2.0025	2	
38	42	43	0.7500	1	



39	43	44	5.2000	1
40	45	46	0.7500	1
41	46	47	3.6000	1
42	47	48	1.2000	1
43	44	49	2.0025	2
44	49	50	2.0025	2
45	50	51	2.0025	2
46	51	48	2.0025	2
47	52	53	0.7500	1
48	53	54	5.2000	1
49	55	56	0.7500	1
50	56	57	3.6000	1
51	57	58	1.2000	1
52	54	59	2.0025	2
53	59	60	2.0025	2
54	60	61	2.0025	2
55	61	58	2.0025	2
56	62	63	0.7500	1
57	63	64	5.2000	1
58	65	66	0.7500	1
59	66	67	3.6000	1
60	67	68	1.2000	1
61	64	69	2.0025	2
62	69	70	2.0025	2
63	70	71	2.0025	2
64	71	68	2.0025	2
65	7	72	2.1250	4
66	72	14	2.1250	4
67	14	73	1.8750	4
68	73	24	1.8750	4
69	24	74	1.8750	4
70	74	34	1.8750	4
71	34	75	2.1250	4
72	75	44	2.1250	4
73	44	76	2.5000	4
74	76	54	2.5000	4
75	54	77	2.5000	4
76	77	64	2.5000	4
77	11	78	2.1250	4
78	78	18	2.1250	4
79	18	79	1.8750	4
80	79	28	1.8750	4
81	28	80	1.8750	4
82	80	38	1.8750	4
83	38	81	2.1250	4
84	81	48	2.1250	4
85	48	82	2.5000	4
86	82	58	2.5000	4
87	58	83	2.5000	4
88	83	68	2.5000	4
89	8	19	4.2500	4
90	19	29	3.7500	4
91	29	39	3.7500	4
92	39	49	4.2500	4
93	49	59	5.0000	4
94	59	69	5.0000	4
95	9	20	4.2500	4
96	20	30	3.7500	4
97	30	40	3.7500	4
98	40	50	4.2500	4



99	50	60	5.0000	4
100	60	70	5.0000	4
101	10	21	4.2500	4
102	21	31	3.7500	4
103	31	41	3.7500	4
104	41	51	4.2500	4
105	51	61	5.0000	4
106	61	71	5.0000	4
107	6	17	4.2500	5
108	17	27	3.7500	5
109	27	37	3.7500	5
110	37	47	4.2500	5
111	47	57	5.0000	5
112	57	67	5.0000	5
113	4	14	6.7158	6
114	13	7	6.7158	6
115	5	18	6.4111	6
116	16	11	6.4111	6
117	8	72	2.9199	7
118	19	72	2.9199	7
119	19	73	2.7433	7
120	29	73	2.7433	7
121	29	74	2.7433	7
122	39	74	2.7433	7
123	39	75	2.9199	7
124	49	75	2.9199	7
125	49	76	3.2031	7
126	59	76	3.2031	7
127	59	77	3.2031	7
128	69	77	3.2031	7
129	10	78	2.9199	7
130	21	78	2.9199	7
131	21	79	2.7433	7
132	31	79	2.7433	7
133	31	80	2.7433	7
134	41	80	2.7433	7
135	41	81	2.9199	7
136	51	81	2.9199	7
137	51	82	3.2031	7
138	61	82	3.2031	7
139	61	83	3.2031	7
140	71	83	3.2031	7
141	8	21	5.8397	6
142	19	10	5.8397	6



P R U R E Z Y - charakteristiky

PRUREZ c. 1 (HE-A)

plocha A[m2] = 1.24952E-02

mom.setr. Iy[m4] = 2.30271E-04

mom.setr. Iw[m8] = 1.51236E-06

Prvek 1 HE-A 320

poloha teziste Y = 150.00

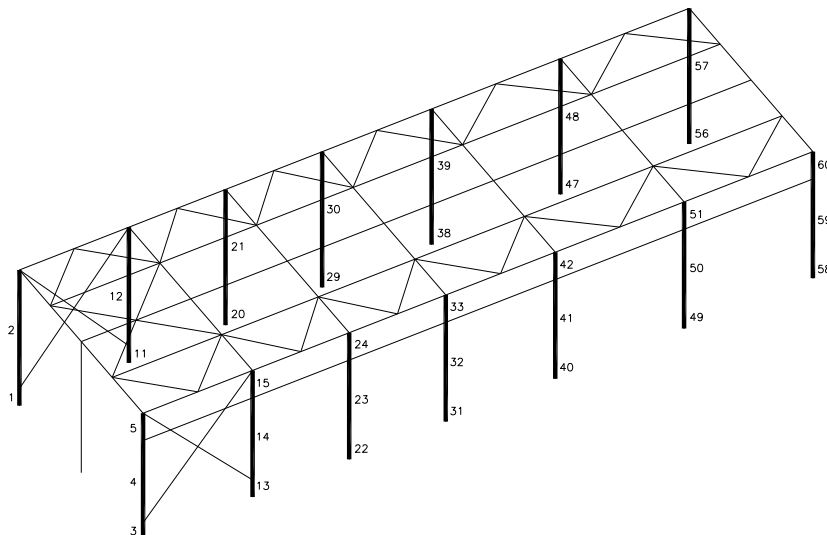
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 7.87059E-07

mom.setr. Iz[m4] = 6.98684E-05

ocel 37

Z = -155.00



PRUREZ c. 2 (IPE)

plocha A[m2] = 5.39923E-03

mom.setr. Iy[m4] = 8.38842E-05

mom.setr. Iw[m8] = 1.25934E-07

Prvek 1 IPE 300

poloha teziste Y = 75.00

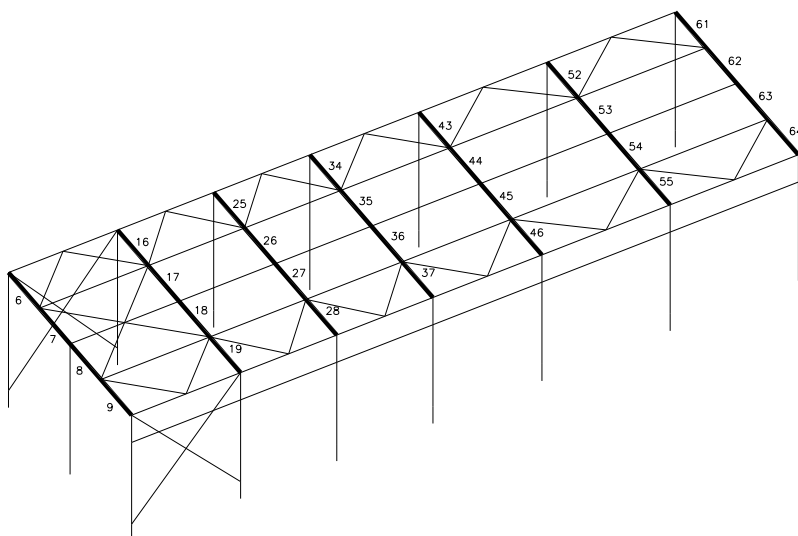
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 2.01000E-07

mom.setr. Iz[m4] = 6.03963E-06

ocel 37

Z = -150.00



PRUREZ c. 3 (HE-A)

plocha A[m2] = 3.89517E-03

mom.setr. Iy[m4] = 6.15740E-06

mom.setr. Iw[m8] = 3.14097E-08

Prvek 1 HE-A 160

poloha teziste Y = 76.00

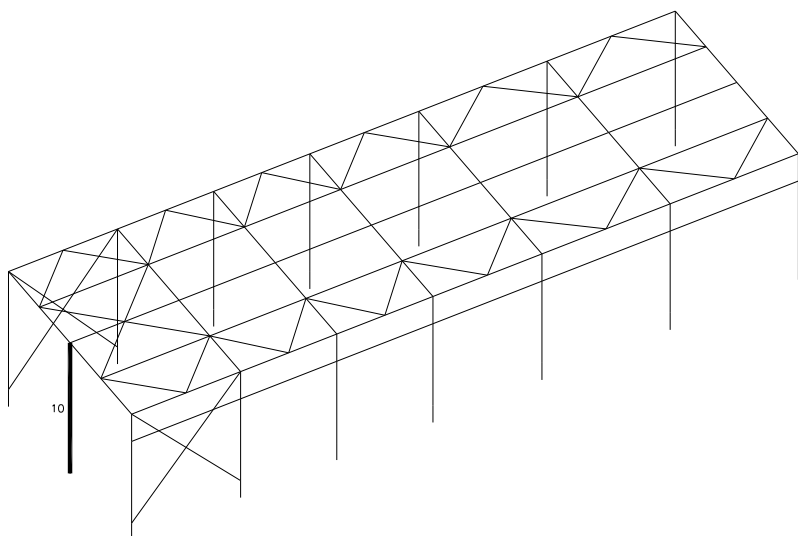
rotace prurezu Rx[st] = 90.00

mom.setr. Ix[m4] = 8.43940E-08

mom.setr. Iz[m4] = 1.67983E-05

ocel 37

Z = -80.00



PRUREZ c. 4 (IPE)

plocha A[m2] = 2.01562E-03

mom.setr. Iy[m4] = 8.72415E-06

mom.setr. Iw[m8] = 3.95887E-09

Prvek 1 IPE 160

poloha teziste Y = 41.00

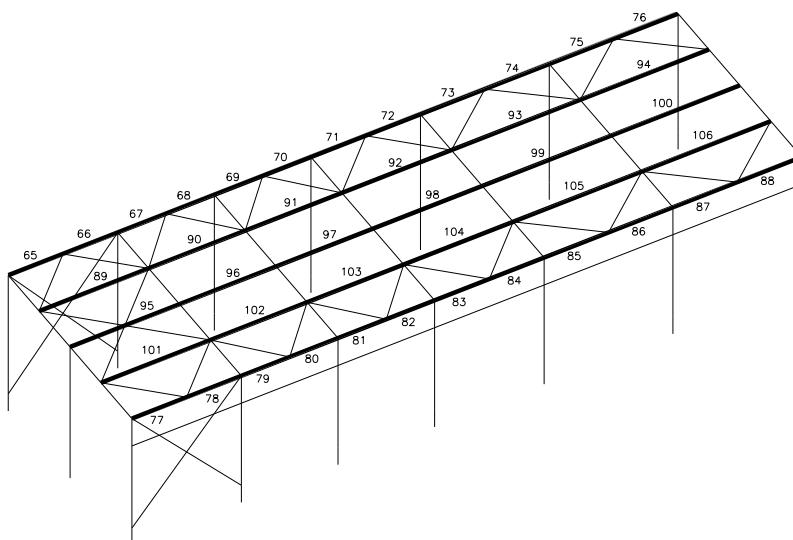
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.57999E-08

mom.setr. Iz[m4] = 6.83412E-07

ocel 37

Z = -80.00



PRUREZ c. 5 (U)

plocha A[m2] = 2.03889E-03

mom.setr. Iy[m4] = 6.22533E-07

mom.setr. Iw[m8] = 1.70914E-09

Prvek 1 U 140

poloha teziste Y = 70.00

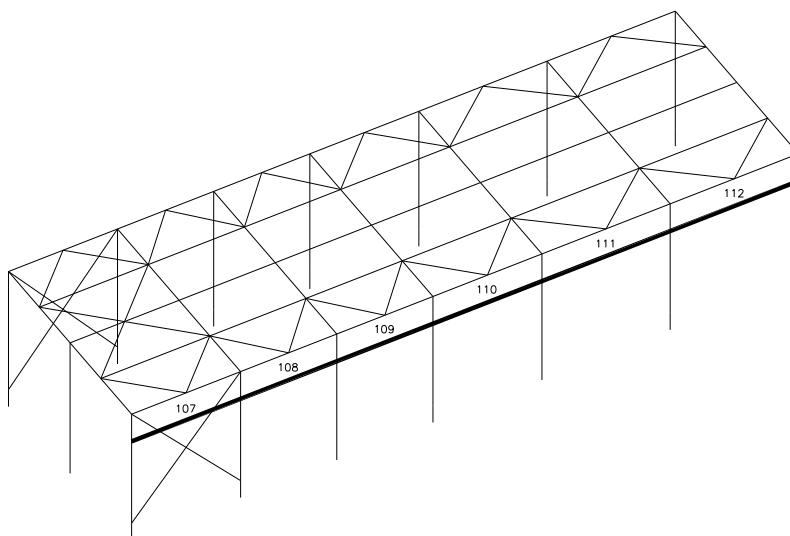
rotace prurezu Rx[st] = 90.00

mom.setr. Ix[m4] = 5.94000E-08

mom.setr. Iz[m4] = 6.05236E-06

ocel 37

Z = -42.49



PRUREZ c. 6 (Trubka)

plocha A[m2] = 6.71547E-04

mom.setr. Iy[m4] = 3.75435E-07

mom.setr. Iw[m8] = 0.00000E+00

Prvek 1 Tr. D=70/3

poloha teziste Y = 35.00

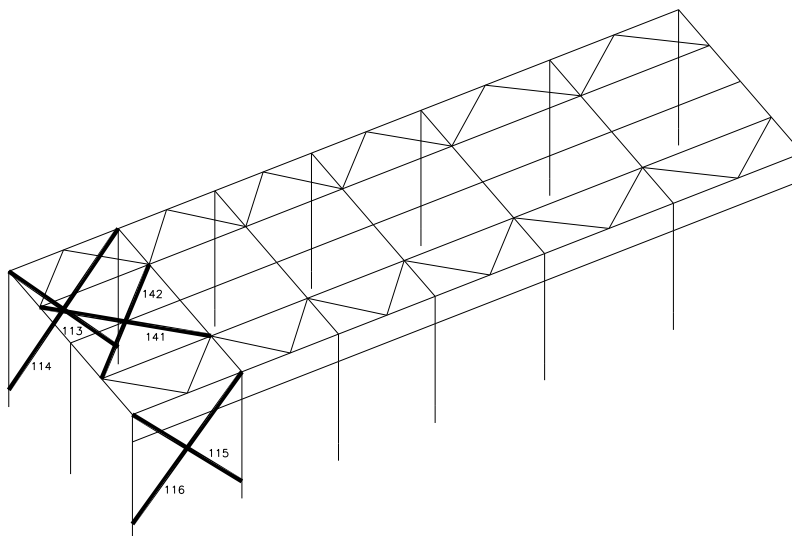
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 7.50870E-07

mom.setr. Iz[m4] = 3.75435E-07

ocel 37

Z = -35.00



PRUREZ c. 7 (Trubka)

plocha A[m2] = 5.40857E-04

mom.setr. Iy[m4] = 1.96377E-07

mom.setr. Iw[m8] = 0.00000E+00

Prvek 1 Tr. D=57/3

poloha teziste Y = 28.50

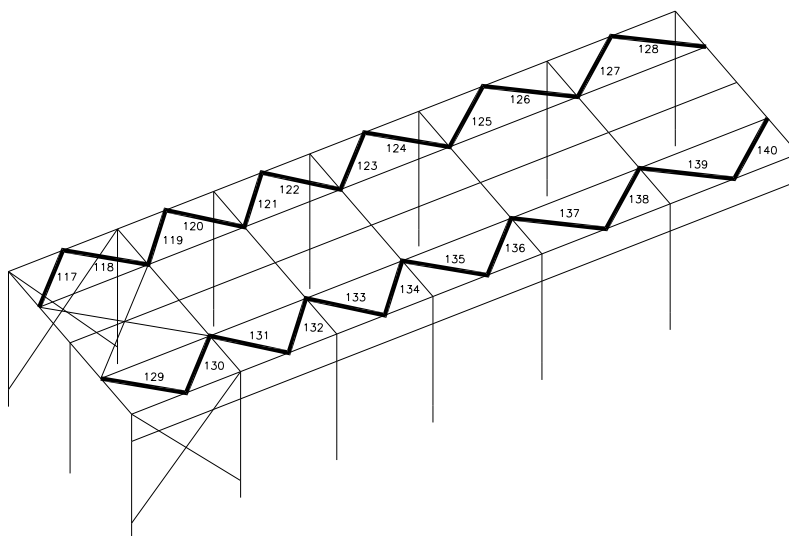
rotace prurezu Rx[st] = 0.00

mom.setr. Ix[m4] = 3.92754E-07

mom.setr. Iz[m4] = 1.96377E-07

ocel 37

Z = -28.50



M A T E R I A L

Material c. 1 ocel 37

merna hmotnost [kg/m^3] : 7850.000
pevnost v tahu [MPa] : 210.000
pevnost v tlaku [MPa] : 210.000
pevnost ve smyku [MPa] : 126.000
modul pružnosti [MPa] : 210000.000
Poissonuv součinitel : 0.300
Součinitel tep. roztáznosti : 1.5E-0003



Typický uzel : XYZRxRyRz

Typický prut : XYZMxMyMz

prut 10: kon kl.: MyMz
prut 65: zac kl.: MyMz
prut 66: kon kl.: MyMz
prut 67: zac kl.: MyMz
prut 68: kon kl.: MyMz
prut 69: zac kl.: MyMz
prut 70: kon kl.: MyMz
prut 71: zac kl.: MyMz
prut 72: kon kl.: MyMz
prut 73: zac kl.: MyMz
prut 74: kon kl.: MyMz
prut 75: zac kl.: MyMz
prut 76: kon kl.: MyMz
prut 77: zac kl.: MyMz
prut 78: kon kl.: MyMz
prut 79: zac kl.: MyMz
prut 80: kon kl.: MyMz
prut 81: zac kl.: MyMz
prut 82: kon kl.: MyMz
prut 83: zac kl.: MyMz
prut 84: kon kl.: MyMz
prut 85: zac kl.: MyMz
prut 86: kon kl.: MyMz
prut 87: zac kl.: MyMz
prut 88: kon kl.: MyMz
prut 89: zac kl.: MyMz kon kl.: MyMz
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prut 113: zac kl.: MyMz kon kl.: MyMz
prut 114: zac kl.: MyMz kon kl.: MyMz



prut 115: zac kl.: MyMz kon kl.: MyMz
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prut 138: zac kl.: MyMz kon kl.: MyMz
prut 139: zac kl.: MyMz kon kl.: MyMz
prut 140: zac kl.: MyMz kon kl.: MyMz
prut 141: zac kl.: MyMz kon kl.: MyMz
prut 142: zac kl.: MyMz kon kl.: MyMz

P O D P O R Y

1	1	X Y Z
2	2	X Y Z
3	3	X Y Z
4	12	X Y Z
5	15	X Y Z
6	22	X Y Z
7	25	X Y Z
8	32	X Y Z
9	35	X Y Z
10	42	X Y Z
11	45	X Y Z
12	52	X Y Z
13	55	X Y Z
14	62	X Y Z
15	65	X Y Z

Z A T E Z O V A C I S T A V Y

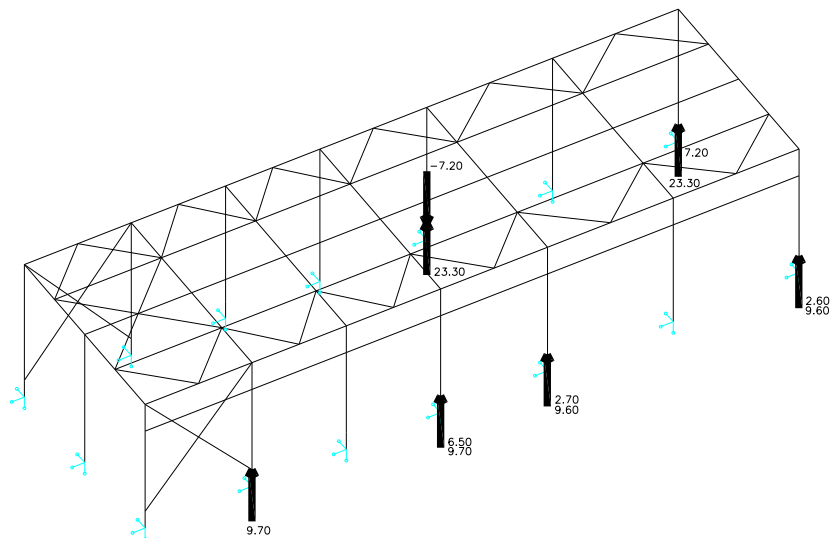
1.	TIHA	stale
2.	OPLASTENI	stale
3.	SNIH	stale
4.	VITR X	stale
5.	VITR Y	stale
6.	STALE REZERVA	stale
7.	UZITNE	stale
8.	TECHNOLOGIE	stale



ZATÍŽENÍ V UZLECH - stav 2 (OPLASTENÍ)							
uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
5			-15.80				1.35
13			-26.90				1.35
16			-52.70				1.35
23			-25.70				1.35
26			-16.00				1.35
33			-26.90				1.35
36			-52.70				1.35
43			-67.60				1.35
46			-62.80				1.35
63			-57.90				1.35
66			-53.00				1.35
4			-25.50				1.35
5			-25.40				1.35
13			-48.00				1.35
16			-70.30				1.35
23			-45.00				1.35
33			-48.00				1.35
36			-70.30				1.35
43			-85.50				1.35
46			-85.20				1.35
63			-60.00				1.35
66			-59.80				1.35
ZATÍŽENÍ V UZLECH - stav 3 (SNIH)							
uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
16			-6.00				1.50
36			-6.00				1.50
43			-8.00				1.50
46			-8.00				1.50
63			-8.00				1.50
66			-8.00				1.50
ZATÍŽENÍ V UZLECH - stav 4 (VITR X)							
uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
16			6.50				1.50
36			6.50				1.50
43			23.30				1.50
46			9.60				1.50
63			23.30				1.50
66			9.60				1.50
ZATÍŽENÍ V UZLECH - stav 5 (VITR Y)							
uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
16			9.70				1.50
36			9.70				1.50
43			-7.20				1.50
46			2.70				1.50
63			7.20				1.50
66			2.60				1.50
ZATÍŽENÍ V UZLECH - stav 6 (STALE REZERVA)							
uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
36			6.50				1.50

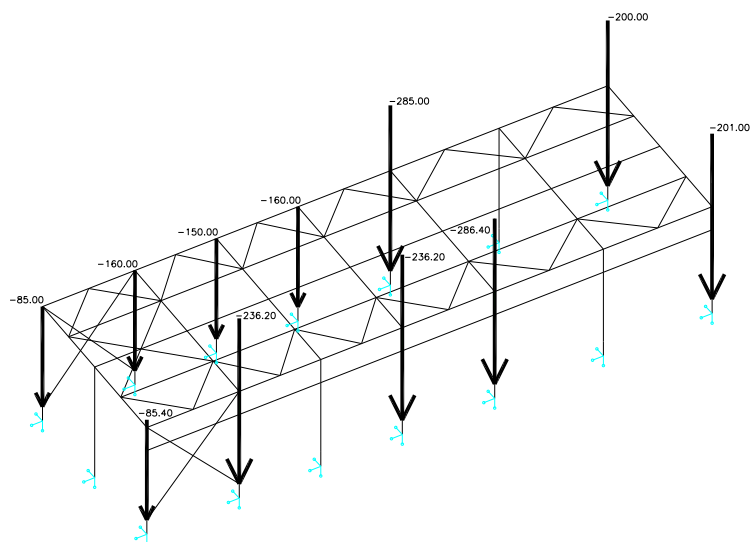


43	23.30	1.50
46	9.60	1.50
63	23.30	1.50
66	9.60	1.50
16	9.70	1.50
36	9.70	1.50
43	-7.20	1.50
46	2.70	1.50
63	7.20	1.50
66	2.60	1.50



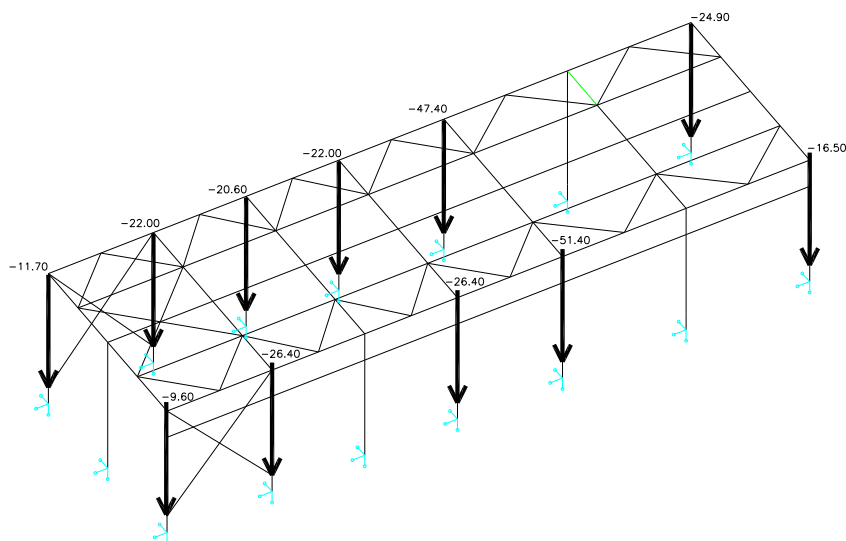
ZATÍŽENÍ V UZLECH - stav 7 (UZITNE)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
4			-85.00				1.50
5			-85.40				1.50
13			-160.00				1.50
16			-236.20				1.50
23			-150.00				1.50
33			-160.00				1.50
36			-236.20				1.50
43			-285.00				1.50
46			-286.40				1.50
63			-200.00				1.50
66			-201.00				1.50



ZATIZENI V UZLECH - stav 8 (TECHNOLOGIE)

uzel	Px [kN]	Py [kN]	Pz [kN]	Mx [kNm]	My [kNm]	Mz [kNm]	koef
4			-11.70				1.50
5			-9.60				1.50
13			-22.00				1.50
16			-26.40				1.50
23			-20.60				1.50
33			-22.00				1.50
36			-26.40				1.50
43			-47.40				1.50
46			-51.40				1.50
63			-24.90				1.50
66			-16.50				1.50



SPOJITE IMPULZY - stav 2 (OPLASTENI)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil			-1.06	glob	0.00%		1.35
				-1.06	del	1.00%		
2	sil			-1.06	glob	0.00%		1.35
				-1.06	del	1.00%		



5 sil	-1.06 glob	0.00%	1.35
	-1.06 del	1.00%	
11 sil	-2.00 glob	0.00%	1.35
	-2.00 del	1.00%	
12 sil	-2.00 glob	0.00%	1.35
	-2.00 del	1.00%	
15 sil	-2.00 glob	0.00%	1.35
	-2.00 del	1.00%	
20 sil	-1.87 glob	0.00%	1.35
	-1.87 del	1.00%	
21 sil	-1.87 glob	0.00%	1.35
	-1.87 del	1.00%	
24 sil	-1.87 glob	0.00%	1.35
	-1.87 del	1.00%	
29 sil	-2.00 glob	0.00%	1.35
	-2.00 del	1.00%	
30 sil	-2.00 glob	0.00%	1.35
	-2.00 del	1.00%	
33 sil	-2.00 glob	0.00%	1.35
	-2.00 del	1.00%	
38 sil	-2.31 glob	0.00%	1.35
	-2.31 del	1.00%	
39 sil	-2.31 glob	0.00%	1.35
	-2.31 del	1.00%	
42 sil	-2.31 glob	0.00%	1.35
	-2.31 del	1.00%	
47 sil	-2.50 glob	0.00%	1.35
	-2.50 del	1.00%	
48 sil	-2.50 glob	0.00%	1.35
	-2.50 del	1.00%	
51 sil	-2.50 glob	0.00%	1.35
	-2.50 del	1.00%	
56 sil	-2.31 glob	0.00%	1.35
	-2.31 del	1.00%	
57 sil	-2.31 glob	0.00%	1.35
	-2.31 del	1.00%	
60 sil	-2.31 glob	0.00%	1.35
	-2.31 del	1.00%	
65 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
66 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
67 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
68 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
69 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
70 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
71 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
72 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
73 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
74 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	
75 sil	-0.50 glob	0.00%	1.35
	-0.50 prum	1.00%	



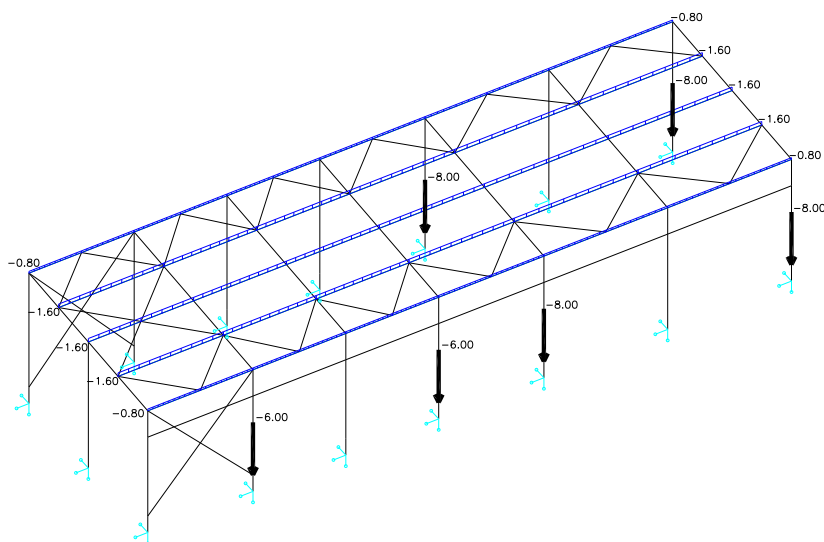
76	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
77	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
78	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
79	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
80	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
81	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
82	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
83	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
84	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
85	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
86	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
87	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
88	def	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
	sil	-0.50	glob	0.00%	1.35
		-0.50	prum	1.00%	
89	sil	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
90	sil	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
91	sil	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
92	sil	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	
93	sil	-1.00	glob	0.00%	1.35
		-1.00	prum	1.00%	



65 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
66 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
67 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
68 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
69 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
70 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
71 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
72 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
73 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
74 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
75 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
76 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
77 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
78 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
79 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
80 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
81 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
82 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
83 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
84 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
85 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
86 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
87 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
88 sil	-0.80 glob	0.00%	1.50
	-0.80 prum	1.00%	
89 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
90 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
91 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
92 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
93 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
94 sil	-1.60 glob	0.00%	1.50



95 sil	-1.60 prum	1.00%	
	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
96 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
97 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
98 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
99 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
100 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
101 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
102 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
103 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
104 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
105 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	
106 sil	-1.60 glob	0.00%	1.50
	-1.60 prum	1.00%	



SPOJITE IMPULZY - stav 4 (VITR X)

prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil	1.90		glob	0.00%			1.50
		1.90		prum	1.00%			
	sil		-2.68	glob	0.00%			1.50
			-2.68	prum	1.00%			
2	sil	1.90		glob	0.00%			1.50
		1.90		prum	1.00%			
	sil		-2.68	glob	0.00%			1.50
			-2.68	prum	1.00%			
5	sil	0.90		glob	0.00%			1.50
		0.90		prum	1.00%			
	sil		-2.68	glob	0.00%			1.50
			-2.68	prum	1.00%			



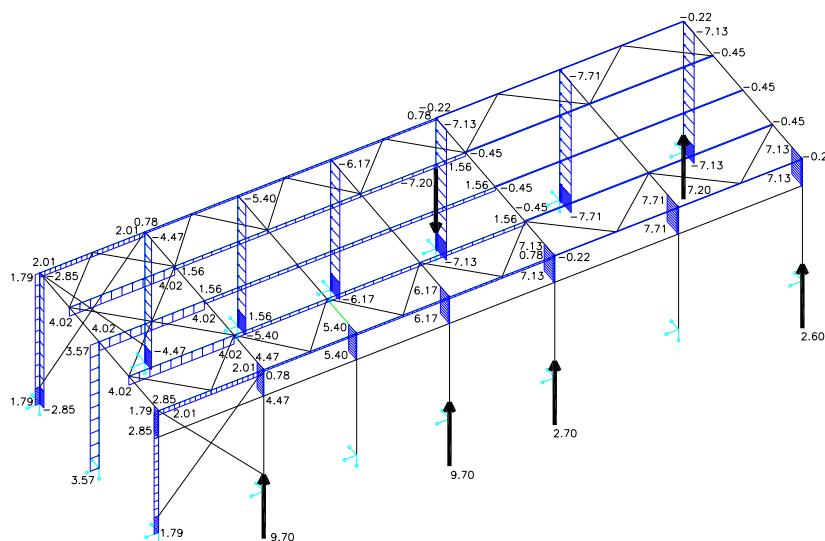
10	sil	-5.36	glob	0.00%	1.50
		-5.36	prum	1.00%	
11	sil	3.57	glob	0.00%	1.50
		3.57	prum	1.00%	
12	sil	3.57	glob	0.00%	1.50
		3.57	prum	1.00%	
15	sil	2.28	glob	0.00%	1.50
		2.28	prum	1.00%	
20	sil	3.35	glob	0.00%	1.50
		3.35	prum	1.00%	
21	sil	3.35	glob	0.00%	1.50
		3.35	prum	1.00%	
24	sil	2.14	glob	0.00%	1.50
		2.14	prum	1.00%	
29	sil	3.57	glob	0.00%	1.50
		3.57	prum	1.00%	
30	sil	3.57	glob	0.00%	1.50
		3.57	prum	1.00%	
33	sil	2.28	glob	0.00%	1.50
		2.28	prum	1.00%	
38	sil	4.13	glob	0.00%	1.50
		4.13	prum	1.00%	
39	sil	4.13	glob	0.00%	1.50
		4.13	prum	1.00%	
42	sil	2.63	glob	0.00%	1.50
		2.63	prum	1.00%	
47	sil	4.47	glob	0.00%	1.50
		4.47	prum	1.00%	
48	sil	4.47	glob	0.00%	1.50
		4.47	prum	1.00%	
51	sil	2.85	glob	0.00%	1.50
		2.85	prum	1.00%	
56	sil	4.13	glob	0.00%	1.50
		4.13	prum	1.00%	
57	sil	4.13	glob	0.00%	1.50
		4.13	prum	1.00%	
60	sil	2.63	glob	0.00%	1.50
		2.63	prum	1.00%	
65	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
66	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
67	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
68	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
69	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
70	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
71	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
72	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
73	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
74	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	
75	sil		2.01 glob	0.00%	1.50
			2.01 prum	1.00%	



76 sil	2.01 glob	0.00%	1.50
	2.01 prum	1.00%	
77 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
78 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
79 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
80 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
81 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
82 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
83 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
84 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
85 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
86 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
87 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
88 sil	1.34 glob	0.00%	1.50
	1.34 prum	1.00%	
89 sil	4.02 glob	0.00%	1.50
	4.02 prum	1.00%	
90 sil	4.02 glob	0.00%	1.50
	4.02 prum	1.00%	
91 sil	4.02 glob	0.00%	1.50
	4.02 prum	1.00%	
92 sil	4.02 glob	0.00%	1.50
	4.02 prum	1.00%	
93 sil	4.02 glob	0.00%	1.50
	4.02 prum	1.00%	
94 sil	4.02 glob	0.00%	1.50
	4.02 prum	1.00%	
95 sil	3.08 glob	0.00%	1.50
	3.08 prum	1.00%	
96 sil	3.08 glob	0.00%	1.50
	3.08 prum	1.00%	
97 sil	3.08 glob	0.00%	1.50
	3.08 prum	1.00%	
98 sil	3.08 glob	0.00%	1.50
	3.08 prum	1.00%	
99 sil	3.08 glob	0.00%	1.50
	3.08 prum	1.00%	
100 sil	3.08 glob	0.00%	1.50
	3.08 prum	1.00%	
101 sil	2.68 glob	0.00%	1.50
	2.68 prum	1.00%	
102 sil	2.68 glob	0.00%	1.50
	2.68 prum	1.00%	
103 sil	2.68 glob	0.00%	1.50
	2.68 prum	1.00%	
104 sil	2.68 glob	0.00%	1.50
	2.68 prum	1.00%	
105 sil	2.68 glob	0.00%	1.50
	2.68 prum	1.00%	



106 sil 2.68 glob 0.00% 1.50
2.68 prum 1.00%



SPOJITE IMPULZY - stav 5 (VITR Y)

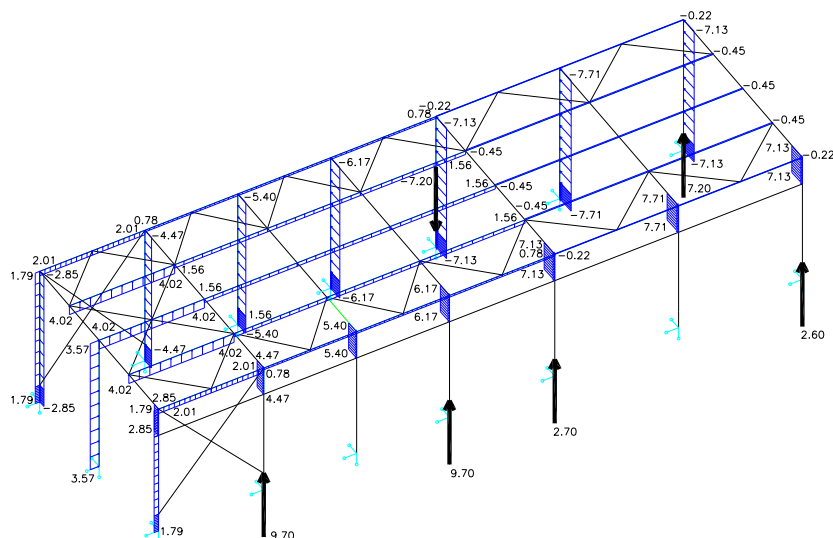
prut	typ	X	Y	Z	sourX	exY	exZ	koef
1	sil		1.79	glob	0.00%			1.50
			1.79	prum	1.00%			
	sil	-2.85		glob	0.00%			1.50
		-2.85		prum	1.00%			
2	sil		1.79	glob	0.00%			1.50
			1.79	prum	1.00%			
	sil	-2.85		glob	0.00%			1.50
		-2.85		prum	1.00%			
3	sil		1.79	glob	0.00%			1.50
			1.79	prum	1.00%			
4	sil		1.79	glob	0.00%			1.50
			1.79	prum	1.00%			
5	sil		1.79	glob	0.00%			1.50
			1.79	prum	1.00%			
	sil	2.85		glob	0.00%			1.50
		2.85		prum	1.00%			
10	sil		3.57	glob	0.00%			1.50
			3.57	prum	1.00%			
11	sil	-4.47		glob	0.00%			1.50
		-4.47		prum	1.00%			
12	sil	-4.47		glob	0.00%			1.50
		-4.47		prum	1.00%			
15	sil	4.47		glob	0.00%			1.50
		4.47		prum	1.00%			
20	sil	-5.40		glob	0.00%			1.50
		-5.40		prum	1.00%			
21	sil	-5.40		glob	0.00%			1.50
		-5.40		prum	1.00%			
24	sil	5.40		glob	0.00%			1.50
		5.40		prum	1.00%			
29	sil	-6.17		glob	0.00%			1.50
		-6.17		prum	1.00%			
30	sil	-6.17		glob	0.00%			1.50
		-6.17		prum	1.00%			
33	sil	6.17		glob	0.00%			1.50



	6.17	prum	1.00%	
38 sil	-7.13	glob	0.00%	1.50
	-7.13	prum	1.00%	
39 sil	-7.13	glob	0.00%	1.50
	-7.13	prum	1.00%	
42 sil	7.13	glob	0.00%	1.50
	7.13	prum	1.00%	
47 sil	-7.71	glob	0.00%	1.50
	-7.71	prum	1.00%	
48 sil	-7.71	glob	0.00%	1.50
	-7.71	prum	1.00%	
51 sil	7.71	glob	0.00%	1.50
	7.71	prum	1.00%	
56 sil	-7.13	glob	0.00%	1.50
	-7.13	prum	1.00%	
57 sil	-7.13	glob	0.00%	1.50
	-7.13	prum	1.00%	
60 sil	7.13	glob	0.00%	1.50
	7.13	prum	1.00%	
65 sil		2.01 glob	0.00%	1.50
		2.01 prum	1.00%	
66 sil		2.01 glob	0.00%	1.50
		2.01 prum	1.00%	
67 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
68 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
69 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
70 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
71 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
72 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
73 sil		-0.22 glob	0.00%	1.50
		-0.22 prum	1.00%	
74 sil		-0.22 glob	0.00%	1.50
		-0.22 prum	1.00%	
75 sil		-0.22 glob	0.00%	1.50
		-0.22 prum	1.00%	
76 sil		-0.22 glob	0.00%	1.50
		-0.22 prum	1.00%	
77 sil		2.01 glob	0.00%	1.50
		2.01 prum	1.00%	
78 sil		2.01 glob	0.00%	1.50
		2.01 prum	1.00%	
79 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
80 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
81 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
82 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
83 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
84 sil		0.78 glob	0.00%	1.50
		0.78 prum	1.00%	
85 sil		-0.22 glob	0.00%	1.50



	-0.22	prum	1.00%	
86 sil	-0.22	glob	0.00%	1.50
	-0.22	prum	1.00%	
87 sil	-0.22	glob	0.00%	1.50
	-0.22	prum	1.00%	
88 sil	-0.22	glob	0.00%	1.50
	-0.22	prum	1.00%	
89 sil	4.02	glob	0.00%	1.50
	4.02	prum	1.00%	
90 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
91 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
92 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
93 sil	-0.45	glob	0.00%	1.50
	-0.45	prum	1.00%	
94 sil	-0.45	glob	0.00%	1.50
	-0.45	prum	1.00%	
95 sil	4.02	glob	0.00%	1.50
	4.02	prum	1.00%	
96 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
97 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
98 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
99 sil	-0.45	glob	0.00%	1.50
	-0.45	prum	1.00%	
100 sil	-0.45	glob	0.00%	1.50
	-0.45	prum	1.00%	
101 sil	4.02	glob	0.00%	1.50
	4.02	prum	1.00%	
102 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
103 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
104 sil	1.56	glob	0.00%	1.50
	1.56	prum	1.00%	
105 sil	-0.45	glob	0.00%	1.50
	-0.45	prum	1.00%	
106 sil	-0.45	glob	0.00%	1.50
	-0.45	prum	1.00%	





zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0
zat. stav :	7	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 7

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0
zat. stav :	4	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 8

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.90	vyber :	0
zat. stav :	5	stale	koef :	0.90	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 9

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.80	vyber :	0
zat. stav :	4	stale	koef :	0.80	vyber :	0
zat. stav :	7	stale	koef :	0.80	vyber :	0

K O M B I N A C E Z A T. S T A V U -
Kombinace c. 10

zat. stav :	1	stale	koef :	1.00	vyber :	0
zat. stav :	2	stale	koef :	1.00	vyber :	0
zat. stav :	6	stale	koef :	1.00	vyber :	0
zat. stav :	8	stale	koef :	1.00	vyber :	0
zat. stav :	3	stale	koef :	0.80	vyber :	0
zat. stav :	5	stale	koef :	0.80	vyber :	0
zat. stav :	7	stale	koef :	0.80	vyber :	0

R E Z Y N A P R U T E C H
prut X Ly Lz Lw L1 stred Y stred Z

1	0.000%	5.553	1.000	1.000			
	1.000%	5.553	1.000	1.000			
2	0.000%	3.089	1.000	1.000			
	1.000%	3.089	1.000	1.000			
3	0.000%	19.980	1.000	1.000			
	1.000%	19.980	1.000	1.000			
4	0.000%	4.160	1.000	1.000			



	1.000%	4.160	1.000	1.000
5	0.000%	12.480	1.000	1.000
	1.000%	12.480	1.000	1.000
6	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
7	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
8	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
9	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
10	0.000%	1.000	1.000	1.000
	1.000%	1.000	1.000	1.000
11	0.000%	35.700	1.000	1.000
	1.000%	35.700	1.000	1.000
12	0.000%	3.089	1.000	1.000
	1.000%	3.089	1.000	1.000
13	0.000%	19.980	1.000	1.000
	1.000%	19.980	1.000	1.000
14	0.000%	4.160	1.000	1.000
	1.000%	4.160	1.000	1.000
15	0.000%	12.480	1.000	1.000
	1.000%	12.480	1.000	1.000
16	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
17	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
18	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
19	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
20	0.000%	21.420	7.230	1.000
	1.000%	21.420	7.230	1.000
21	0.000%	3.069	1.144	1.000
	1.000%	3.069	1.144	1.000
22	0.000%	19.960	7.400	1.000
	1.000%	19.960	7.400	1.000
23	0.000%	4.160	1.542	1.000
	1.000%	4.160	1.542	1.000
24	0.000%	12.467	4.625	1.000
	1.000%	12.467	4.625	1.000
25	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
26	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
27	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
28	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
29	0.000%	21.420	7.230	1.000
	1.000%	21.420	7.230	1.000
30	0.000%	3.069	1.144	1.000
	1.000%	3.069	1.144	1.000
31	0.000%	19.960	7.400	1.000
	1.000%	19.960	7.400	1.000
32	0.000%	4.160	1.542	1.000
	1.000%	4.160	1.542	1.000
33	0.000%	12.467	4.625	1.000
	1.000%	12.467	4.625	1.000
34	0.000%	4.000	1.000	1.000



	1.000%	4.000	1.000	1.000
35	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
36	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
37	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
38	0.000%	21.420	7.230	1.000
	1.000%	21.420	7.230	1.000
39	0.000%	3.069	1.144	1.000
	1.000%	3.069	1.144	1.000
40	0.000%	19.960	7.400	1.000
	1.000%	19.960	7.400	1.000
41	0.000%	4.160	1.542	1.000
	1.000%	4.160	1.542	1.000
42	0.000%	12.467	4.625	1.000
	1.000%	12.467	4.625	1.000
43	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
44	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
45	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
46	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
47	0.000%	21.420	7.230	1.000
	1.000%	21.420	7.230	1.000
48	0.000%	3.069	1.144	1.000
	1.000%	3.069	1.144	1.000
49	0.000%	19.960	7.400	1.000
	1.000%	19.960	7.400	1.000
50	0.000%	4.160	1.542	1.000
	1.000%	4.160	1.542	1.000
51	0.000%	12.467	4.625	1.000
	1.000%	12.467	4.625	1.000
52	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
53	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
54	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
55	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
56	0.000%	21.420	7.230	1.000
	1.000%	21.420	7.230	1.000
57	0.000%	3.069	1.144	1.000
	1.000%	3.069	1.144	1.000
58	0.000%	19.960	7.400	1.000
	1.000%	19.960	7.400	1.000
59	0.000%	4.160	1.542	1.000
	1.000%	4.160	1.542	1.000
60	0.000%	12.467	4.625	1.000
	1.000%	12.467	4.625	1.000
61	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
62	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
63	0.000%	4.000	1.000	1.000
	1.000%	4.000	1.000	1.000
64	0.000%	4.000	1.000	1.000



	1.000%	4.000	1.000	1.000
65	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
66	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
67	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
68	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
69	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
70	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
71	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
72	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
73	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
74	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
75	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
76	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
77	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
78	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
79	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
80	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
81	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
82	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
83	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
84	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
85	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
86	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
87	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
88	0.000%	2.000	1.000	1.000
	1.000%	2.000	1.000	1.000
89	0.000%	1.000		
	1.000%	1.000		
90	0.000%	1.000		
	1.000%	1.000		
91	0.000%	1.000		
	1.000%	1.000		
92	0.000%	1.000		
	1.000%	1.000		
93	0.000%	1.000		
	1.000%	1.000		
94	0.000%	1.000		



	1.000%	1.000	
95	0.000%	1.000	
	1.000%	1.000	
96	0.000%	1.000	
	1.000%	1.000	
97	0.000%	1.000	
	1.000%	1.000	
98	0.000%	1.000	
	1.000%	1.000	
99	0.000%	1.000	
	1.000%	1.000	
100	0.000%	1.000	
	1.000%	1.000	
101	0.000%	1.000	
	1.000%	1.000	
102	0.000%	1.000	
	1.000%	1.000	
103	0.000%	1.000	
	1.000%	1.000	
104	0.000%	1.000	
	1.000%	1.000	
105	0.000%	1.000	
	1.000%	1.000	
106	0.000%	1.000	
	1.000%	1.000	
107	0.000%	1.000	1.000
	1.000%	1.000	1.000
108	0.000%	1.000	1.000
	1.000%	1.000	1.000
109	0.000%	1.000	1.000
	1.000%	1.000	1.000
110	0.000%	1.000	1.000
	1.000%	1.000	1.000
111	0.000%	1.000	1.000
	1.000%	1.000	1.000
112	0.000%	1.000	1.000
	1.000%	1.000	1.000
113	0.000%	1.000	1.000
	1.000%	1.000	1.000
114	0.000%	1.000	1.000
	1.000%	1.000	1.000
115	0.000%	1.000	1.000
	1.000%	1.000	1.000
116	0.000%	1.000	1.000
	1.000%	1.000	1.000
117	0.000%	1.000	1.000
	1.000%	1.000	1.000
118	0.000%	1.000	1.000
	1.000%	1.000	1.000
119	0.000%	1.000	1.000
	1.000%	1.000	1.000
120	0.000%	1.000	1.000
	1.000%	1.000	1.000
121	0.000%	1.000	1.000
	1.000%	1.000	1.000
122	0.000%	1.000	1.000
	1.000%	1.000	1.000
123	0.000%	1.000	1.000
	1.000%	1.000	1.000
124	0.000%	1.000	1.000



	1.000%	1.000	1.000
125	0.000%	1.000	1.000
	1.000%	1.000	1.000
126	0.000%	1.000	1.000
	1.000%	1.000	1.000
127	0.000%	1.000	1.000
	1.000%	1.000	1.000
128	0.000%	1.000	1.000
	1.000%	1.000	1.000
129	0.000%	1.000	1.000
	1.000%	1.000	1.000
130	0.000%	1.000	1.000
	1.000%	1.000	1.000
131	0.000%	1.000	1.000
	1.000%	1.000	1.000
132	0.000%	1.000	1.000
	1.000%	1.000	1.000
133	0.000%	1.000	1.000
	1.000%	1.000	1.000
134	0.000%	1.000	1.000
	1.000%	1.000	1.000
135	0.000%	1.000	1.000
	1.000%	1.000	1.000
136	0.000%	1.000	1.000
	1.000%	1.000	1.000
137	0.000%	1.000	1.000
	1.000%	1.000	1.000
138	0.000%	1.000	1.000
	1.000%	1.000	1.000
139	0.000%	1.000	1.000
	1.000%	1.000	1.000
140	0.000%	1.000	1.000
	1.000%	1.000	1.000
141	0.000%	1.000	1.000
	1.000%	1.000	1.000
142	0.000%	1.000	1.000
	1.000%	1.000	1.000

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy	1.řadek	= minim		2.řadek	= maximum			
síla X								
38	0.000	4	-620.9	0.0	-2.3	0.0	0.0	0.0
48	5.200	2	56.7	0.0	-3.6	97.1	0.0	0.0
moment X								
2	0.000	2	-0.2	0.0	14.6	11.7	8.9	7.9
12	0.000	2	31.6	0.0	25.0	20.3	-1.4	7.1
síla Z								
47	0.000	3	-55.1	0.0	-46.3	0.0	0.0	0.0
47	0.000	2	36.7	0.0	36.3	0.0	0.0	0.0
moment Y								
48	2.600	8	-63.2	0.0	-11.0	-95.2	0.0	0.0
48	5.200	2	56.7	0.0	-3.6	97.1	0.0	0.0
síla Y								
3	0.000	3	20.8	0.0	-8.4	0.0	-19.1	0.0
3	0.000	2	-87.9	0.0	9.9	0.0	14.8	0.0
moment Z								
3	0.750	3	20.8	0.0	-8.4	-6.3	-17.1	-13.6



2	2.600	2	3.5	0.0	7.2	40.0	-1.5	17.5
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Vyhledano pro

Prurez : 1

Sled kombinaci : 1..10

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
9	0.000	2	-8.9	0.0	-12.2	-29.4	0.8	-1.6
43	0.000	3	24.1	0.0	16.8	-50.9	0.0	0.0
moment X								
6	0.000	2	-1.0	0.0	-15.6	49.0	-0.7	0.0
9	0.000	2	-8.9	0.0	-12.2	-29.4	0.8	-1.6
sila Z								
52	0.000	2	-5.9	0.0	-44.8	97.1	-0.2	0.0
52	0.000	8	18.3	0.0	43.3	-88.6	0.0	0.0
moment Y								
52	0.000	8	18.3	0.0	43.3	-88.6	0.0	0.0
52	0.000	2	-5.9	0.0	-44.8	97.1	-0.2	0.0
sila Y								
8	0.000	2	-2.4	0.0	-17.9	6.5	-2.1	2.6
7	0.000	2	-1.8	0.0	-5.7	17.8	2.0	-1.4
moment Z								
7	2.002	3	8.7	0.0	12.9	2.2	-1.3	-1.8
7	2.002	2	-1.8	0.0	-5.7	6.5	2.0	2.6

Vyhledano pro

Prurez : 2

Sled kombinaci : 1..10

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
sila X								
10	0.000	5	-16.8	0.0	0.0	0.0	0.0	0.0
10	0.000	2	19.2	0.0	0.0	0.0	23.1	0.0
moment X								
10	0.000	3	16.0	0.0	0.0	0.0	-15.4	0.0
10	0.000	5	-16.8	0.0	0.0	0.0	0.0	0.0
sila Z								
10	0.000	2	19.2	0.0	0.0	0.0	23.1	0.0
10	0.000	3	16.0	0.0	0.0	0.0	-15.4	0.0
moment Y								
10	0.000	3	16.0	0.0	0.0	0.0	-15.4	0.0
10	0.000	2	19.2	0.0	0.0	0.0	23.1	0.0
sila Y								
10	5.750	2	19.2	0.0	0.0	0.0	-23.1	0.0
10	0.000	2	19.2	0.0	0.0	0.0	23.1	0.0
moment Z								
10	2.875	3	16.0	0.0	0.0	0.0	0.0	-22.2
10	2.875	2	19.2	0.0	0.0	0.0	0.0	33.2

Vyhledano pro

Prurez : 3

Sled kombinaci : 1..10



Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
síla X								
79	0.000	2	-30.8	0.0	-2.5	0.0	0.0	0.0
79	0.000	3	33.3	0.0	-0.9	0.0	0.0	0.0
moment X								
76	0.000	2	0.2	0.0	0.0	-7.3	0.0	0.0
80	0.000	3	23.8	0.0	0.0	-0.9	0.0	0.0
síla Z								
93	0.000	2	-1.7	0.0	-11.7	0.0	0.0	0.0
93	5.000	2	-1.7	0.0	11.7	0.0	0.0	0.0
moment Y								
93	2.500	2	-1.7	0.0	0.0	-14.6	0.0	0.0
93	2.500	8	0.4	0.0	0.0	12.9	0.0	0.0
síla Y								
66	0.000	3	-12.6	0.0	0.0	-5.3	0.0	0.0
65	0.000	3	-2.6	0.0	-5.0	0.0	0.0	0.0
moment Z								
88	0.000	8	0.3	0.0	0.0	6.4	0.0	0.0
76	0.000	2	0.2	0.0	0.0	-7.3	0.0	0.0

Vyhledano pro

Prurez : 4

Sled kombinací : 1..10

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
síla X								
108	0.000	3	-11.9	0.0	1.5	0.0	0.0	0.0
108	0.000	2	7.0	0.0	1.5	0.0	0.0	0.0
moment X								
107	0.000	2	4.3	0.0	1.7	0.0	0.0	0.0
110	0.000	3	-4.5	0.0	1.7	0.0	0.0	0.0
síla Z								
111	5.000	2	1.2	0.0	-2.0	0.0	0.0	0.0
111	0.000	2	1.2	0.0	2.0	0.0	0.0	0.0
moment Y								
112	5.000	4	0.0	0.0	-2.0	0.0	0.0	0.0
111	2.500	2	1.2	0.0	0.0	2.5	0.0	0.0
síla Y								
109	0.000	3	-7.4	0.0	1.5	0.0	0.0	0.0
109	0.000	2	3.9	0.0	1.5	0.0	0.0	0.0
moment Z								
109	3.750	3	-7.4	0.0	-1.5	0.0	0.0	0.0
109	3.750	2	3.9	0.0	-1.5	0.0	0.0	0.0

Vyhledano pro

Prurez : 5

Sled kombinací : 1..10

Vypočtové vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy		1.radek = minimim		2.radek = maximum				
síla X								



115	0.000	2	-26.5	0.0	0.0	0.0	0.0	0.0
116	0.000	2	25.4	0.0	0.0	0.0	0.0	0.0
moment X								
114	0.000	2	17.2	0.0	0.0	0.0	0.0	0.0
113	0.000	2	-0.2	0.0	0.0	0.0	0.0	0.0
sila Z								
141	0.000	2	8.4	0.0	0.0	0.0	0.0	0.0
142	0.000	3	8.9	0.0	0.0	0.0	0.0	0.0
moment Y								
141	5.840	2	8.4	0.0	0.0	0.0	0.0	0.0
142	5.840	3	8.9	0.0	0.0	0.0	0.0	0.0
sila Y								
115	0.000	2	-26.5	0.0	0.0	0.0	0.0	0.0
116	0.000	2	25.4	0.0	0.0	0.0	0.0	0.0
moment Z								
115	6.411	2	-26.5	0.0	0.0	0.0	0.0	0.0
116	6.411	2	25.4	0.0	0.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..10

Vypoctove vnitřní síly na prutech

Prut	[m]	Kombi	N	Mx	Tz	My	Ty	Mz
			kN	kN.m	kN	kN.m	kN	kN.m
extremy			1.radek = minimim		2.radek = maximum			
sila X								
131	0.000	3	-6.9	0.0	0.0	0.0	0.0	0.0
118	0.000	3	6.9	0.0	0.0	0.0	0.0	0.0
moment X								
129	0.000	2	1.2	0.0	0.0	0.0	0.0	0.0
118	0.000	2	-6.4	0.0	0.0	0.0	0.0	0.0
sila Z								
136	0.000	2	-4.9	0.0	0.0	0.0	0.0	0.0
117	0.000	2	6.5	0.0	0.0	0.0	0.0	0.0
moment Y								
136	2.920	2	-4.9	0.0	0.0	0.0	0.0	0.0
117	2.920	2	6.5	0.0	0.0	0.0	0.0	0.0
sila Y								
125	0.000	3	1.4	0.0	0.0	0.0	0.0	0.0
136	0.000	3	4.5	0.0	0.0	0.0	0.0	0.0
moment Z								
125	3.203	3	1.4	0.0	0.0	0.0	0.0	0.0
136	2.920	3	4.5	0.0	0.0	0.0	0.0	0.0

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..10

Vypoctove reakce v podporach

Uzel	ZS	Px	Py	Pz	Mx	My	Mz
		kN	kN	kN	kN.m	kN.m	kN.m

1	1	0.0	0.0	0.0	0.0	0.0	0.0
	2	0.2	0.2	11.5	0.0	0.0	0.0
	3	0.4	0.2	5.2	0.0	0.0	0.0
	4	-16.9	11.9	-10.0	0.0	0.0	0.0
	5	17.5	-6.2	-7.5	0.0	0.0	0.0
	6	0.0	0.0	0.0	0.0	0.0	0.0



AFRI CZ s.r.o.

Modernizace teplárny Mladá Boleslav

Dokumentace pro vydání stavebního povolení

Datum: 12/2023

SO 203 – Úpravy kotelny K 80/K90 - OK

Revize 0

2	7		0.0	0.0	127.3	0.0	0.0	0.0
	8		0.0	0.0	17.5	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		0.0	0.0	6.1	0.0	0.0	0.0
	3		0.0	0.0	10.7	0.0	0.0	0.0
	4		0.0	23.1	-25.3	0.0	0.0	0.0
	5		0.0	-15.4	-22.1	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
3	7		0.0	0.0	0.2	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		0.0	0.0	27.2	0.0	0.0	0.0
	3		-0.2	0.0	4.4	0.0	0.0	0.0
	4		-9.8	14.7	46.2	0.0	0.0	0.0
	5		8.5	-19.2	-62.4	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
12	7		0.0	0.0	128.1	0.0	0.0	0.0
	8		0.0	0.0	14.4	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		2.0	0.0	63.0	0.0	0.0	0.0
	3		3.5	0.0	18.9	0.0	0.0	0.0
	4		-31.0	9.6	-69.6	0.0	0.0	0.0
	5		19.9	-4.0	-20.3	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
15	7		0.0	0.0	240.1	0.0	0.0	0.0
	8		0.0	0.0	33.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		-2.0	-0.2	88.6	0.0	0.0	0.0
	3		-3.6	-0.2	28.5	0.0	0.0	0.0
	4		-2.7	14.1	-71.4	0.0	0.0	0.0
	5		13.5	-14.3	-22.7	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
22	7		0.0	0.0	354.2	0.0	0.0	0.0
	8		0.0	0.0	39.6	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		1.9	0.0	59.9	0.0	0.0	0.0
	3		3.3	0.0	18.0	0.0	0.0	0.0
	4		-30.0	0.0	-54.1	0.0	0.0	0.0
	5		27.4	0.0	-6.0	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
25	7		0.0	0.0	225.0	0.0	0.0	0.0
	8		0.0	0.0	30.9	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		-1.9	0.0	37.8	0.0	0.0	0.0
	3		-3.3	0.0	18.0	0.0	0.0	0.0
	4		-3.5	0.7	-19.8	0.0	0.0	0.0
	5		10.6	-1.0	-29.2	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
32	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		2.0	0.0	63.2	0.0	0.0	0.0
	3		3.5	0.0	19.2	0.0	0.0	0.0
	4		-31.9	0.0	-57.5	0.0	0.0	0.0
	5		31.1	0.0	-6.2	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
35	7		0.0	0.0	240.0	0.0	0.0	0.0
	8		0.0	0.0	33.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		-2.0	0.0	88.4	0.0	0.0	0.0



42	3		-3.6	0.0	28.2	0.0	0.0	0.0
	4		-3.6	0.4	-31.1	0.0	0.0	0.0
	5		11.4	-0.6	-45.8	0.0	0.0	0.0
	6		0.0	0.0	-9.7	0.0	0.0	0.0
	7		0.0	0.0	354.3	0.0	0.0	0.0
	8		0.0	0.0	39.6	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		2.3	0.0	122.3	0.0	0.0	0.0
45	3		4.1	0.0	34.1	0.0	0.0	0.0
	4		-35.9	0.0	-100.1	0.0	0.0	0.0
	5		38.1	0.0	17.8	0.0	0.0	0.0
	6		0.0	0.0	-34.9	0.0	0.0	0.0
	7		0.0	0.0	427.5	0.0	0.0	0.0
	8		0.0	0.0	71.1	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		-2.3	0.0	104.8	0.0	0.0	0.0
52	3		-4.1	0.0	34.3	0.0	0.0	0.0
	4		-3.2	0.2	-40.6	0.0	0.0	0.0
	5		9.7	-0.4	-24.2	0.0	0.0	0.0
	6		0.0	0.0	-14.4	0.0	0.0	0.0
	7		0.0	0.0	429.6	0.0	0.0	0.0
	8		0.0	0.0	77.1	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		2.5	0.0	33.5	0.0	0.0	0.0
55	3		4.4	0.0	23.9	0.0	0.0	0.0
	4		-38.7	0.0	-70.2	0.0	0.0	0.0
	5		43.8	0.0	21.6	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		-2.5	0.0	21.6	0.0	0.0	0.0
62	3		-4.5	0.0	24.1	0.0	0.0	0.0
	4		-3.3	0.1	-28.5	0.0	0.0	0.0
	5		8.0	-0.3	-8.0	0.0	0.0	0.0
	6		0.0	0.0	0.0	0.0	0.0	0.0
	7		0.0	0.0	0.0	0.0	0.0	0.0
	8		0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		1.3	0.0	103.5	0.0	0.0	0.0
65	3		2.3	0.0	24.1	0.0	0.0	0.0
	4		-33.5	0.0	-79.0	0.0	0.0	0.0
	5		41.7	0.0	8.8	0.0	0.0	0.0
	6		0.0	0.0	-34.9	0.0	0.0	0.0
	7		0.0	0.0	300.0	0.0	0.0	0.0
	8		0.0	0.0	37.3	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	2		-1.2	0.0	84.0	0.0	0.0	0.0
	3		-2.2	0.0	23.9	0.0	0.0	0.0
	4		-8.5	0.1	-19.6	0.0	0.0	0.0
	5		9.8	-0.3	-16.8	0.0	0.0	0.0
	6		0.0	0.0	-14.4	0.0	0.0	0.0
	7		0.0	0.0	301.5	0.0	0.0	0.0
	8		0.0	0.0	24.8	0.0	0.0	0.0

Normové deformace v uzlech

Uzel Kombi	X	Y	Z	Rx	Ry	Rz
	mm	mm	mm	rad	rad	rad
extremy	1.radek = minimim		2.radek = maximum			
posuv X						



71	3		-30.5	1.6	-4.6		0.0003	-0.0006	0.0000
71	2		31.4	-1.7	4.8		0.0002	0.0007	0.0002
posuv Y									
9	2		23.3	-3.2	0.0		0.0006	-0.0012	0.0000
68	3		-30.2	2.6	0.0		-0.0004	-0.0042	0.0007
posuv Z									
60	8		-25.9	1.9	-8.3		0.0002	0.0013	0.0000
76	2		28.9	-1.3	6.8		0.0000	-0.0018	-0.0004
rot X									
2	3		0.0	0.0	0.0		-0.0084	-0.0033	0.0000
2	2		0.0	0.0	0.0		0.0126	0.0041	0.0000
rot Y									
62	3		0.0	0.0	0.0		0.0000	-0.0073	0.0005
62	2		0.0	0.0	0.0		0.0002	0.0071	-0.0003
rot Z									
1	2		0.0	0.0	0.0		0.0019	0.0049	-0.0008
3	3		0.0	0.0	0.0		-0.0015	-0.0040	0.0009

Vyhledano pro

Sled uzlu : 1..83

Sled kombinaci : 1..10

POSOUZENÍ PRŮŘEZŮ

Vypočtové napětí na prutech rezy zadane

Prv.	Vlak.	Kom.		sigma x		tau		sig.srov.
				MPa		Mpa		Mpa

sigma min prut	:	11	prurez	:	1	rez	:	0.75 [m]
1 8.00 4		-159.1				0.0		159.1
sigma max prut	:	48	prurez	:	1	rez	:	5.20 [m]
1 8.00 2		69.9				0.0		69.9
tau prut	:	47	prurez	:	1	rez	:	0.00 [m]
1 12.50 3		-10.4				-18.3		18.3
sigma sr. prut	:	11	prurez	:	1	rez	:	0.75 [m]
1 8.00 4		-159.1				0.0		159.1

vyuziti prurezu : 75.7 % **HEA 320** VYHOVI !

Vyhledano pro

Prurez : 1

Sled kombinaci : 1..10

Vypočtové napětí na prutech rezy zadane

Prv.	Vlak.	Kom.		sigma x		tau		sig.srov.
				MPa		Mpa		Mpa

sigma min prut	:	52	prurez	:	2	rez	:	0.00 [m]
1 1.00 2		-182.1				0.0		182.1
sigma max prut	:	52	prurez	:	2	rez	:	0.00 [m]
1 9.00 2		172.3				0.0		172.3
tau prut	:	52	prurez	:	2	rez	:	2.00 [m]
1 4.50 2		-1.6				-23.8		23.8
sigma sr. prut	:	52	prurez	:	2	rez	:	0.00 [m]
1 1.00 2		-182.1				0.0		182.1

vyuziti prurezu : 86.7 % **IPE 300** VYHOVI !

Vyhledano pro

Prurez : 2



Sled kombinací : 1..10

Vypočtové napětí na prutech rezy generované

Prv.	Vlak.	Kom.	sigma x	tau	sig.srov.
			MPa	Mpa	Mpa

sigma min prut	:	10	prurez	:	3 rez	:	2.88 [m]
1 8.00	2	-145.4			0.0		145.4
sigma max prut	:	10	prurez	:	3 rez	:	2.88 [m]
1 1.00	2	155.3			0.0		155.3
tau prut	:	10	prurez	:	3 rez	:	5.75 [m]
1 12.50	2	4.9			28.2		28.2
sigma sr. prut	:	10	prurez	:	3 rez	:	2.88 [m]
1 1.00	2	155.3			0.0		155.3

vyuziti prurezu : 74.0 % **HEA 160** VYHOVI !

Vyhledano pro

Prurez : 3

Sled kombinací : 1..10

Vypočtové napětí na prutech rezy generované

Prv.	Vlak.	Kom.	sigma x	tau	sig.srov.
			MPa	Mpa	Mpa

sigma min prut	:	93	prurez	:	4 rez	:	2.50 [m]
1 8.00	2	-135.0			0.0		135.0
sigma max prut	:	94	prurez	:	4 rez	:	2.50 [m]
1 1.00	2	133.9			0.0		133.9
tau prut	:	94	prurez	:	4 rez	:	5.00 [m]
1 4.50	2	-0.2			16.8		16.8
sigma sr. prut	:	93	prurez	:	4 rez	:	2.50 [m]
1 8.00	2	-135.0			0.0		135.0

vyuziti prurezu : 64.3 % **IPE 160** VYHOVI !

Vyhledano pro

Prurez : 4

Sled kombinací : 1..10

Vypočtové napětí na prutech rezy generované

Prv.	Vlak.	Kom.	sigma x	tau	sig.srov.
			MPa	Mpa	Mpa

sigma min prut	:	111	prurez	:	5 rez	:	2.50 [m]
1 3.00	3	-174.1			0.0		174.1
sigma max prut	:	111	prurez	:	5 rez	:	2.50 [m]
1 1.00	2	71.8			0.0		71.8
tau prut	:	111	prurez	:	5 rez	:	5.00 [m]
1 6.00	3	-1.3			-2.4		2.4
sigma sr. prut	:	111	prurez	:	5 rez	:	2.50 [m]
1 3.00	3	-174.1			0.0		174.1

vyuziti prurezu : 82.9 % **U 140** VYHOVI !

Vyhledano pro

Prurez : 5

Sled kombinací : 1..10

Vypočtové napětí na prutech rezy generované



Prv. Vlak. Kom.	sigma x MPa	tau Mpa	sig.srov. Mpa
-----	-----	-----	-----
sigma min prut : 115 prurez : 6 rez : 6.41 [m]			
1 1.88 2 -39.5		0.0	39.5
sigma max prut : 116 prurez : 6 rez : 6.41 [m]			
1 1.88 2 37.8		0.0	37.8
tau prut : 142 prurez : 6 rez : 5.84 [m]			
1 2.88 10 10.7		0.0	10.7
sigma sr. prut : 115 prurez : 6 rez : 6.41 [m]			
1 1.88 2 -39.5		0.0	39.5

vyuziti prurezu : 18.8 % **TR f70x3,2 VYHOVI !**

Vyhledano pro

Prurez : 6

Sled kombinaci : 1..10

Vypoctove napeti na prutech rezy zadane

Prv. Vlak. Kom.	sigma x MPa	tau Mpa	sig.srov. Mpa
-----	-----	-----	-----
sigma min prut : 117 prurez : 7 rez : 0.00 [m]			
1 1.00 3 -43.0		0.0	43.0
sigma max prut : 118 prurez : 7 rez : 0.00 [m]			
1 1.00 3 12.8		0.0	12.8
tau prut : 140 prurez : 7 rez : 3.20 [m]			
1 2.88 10 -1.5		0.0	1.5
sigma sr. prut : 117 prurez : 7 rez : 0.00 [m]			
1 1.00 3 -43.0		0.0	43.0

vyuziti prurezu : 20.5 % **TR f57x3,2 VYHOVI !**

Vyhledano pro

Prurez : 7

Sled kombinaci : 1..10

3 ZÁVĚR

Konstrukce pro modernizaci kotelny v úseku mezi řadami X14.6 – X15.9 a mezi řadami Y40 – Y47 byla posouzena dle dostupných podkladů. Podle statického posouzení na zatěžovací údaje platné pro navrhování v daném území České republiky, **vyhoví**. Posuzovaná konstrukce vyhovuje na I. Mezní stav únosnosti a na II. Mezní stav použitelnosti.

Posouzení stávající konstrukce v daném úseku nebyla předmětem toho statického výpočtu.

V Ostravě 15.12.2023

Vypracoval : Ing. Rabl