

# ČÁST D.2

VÝŠKOVÝ SYSTÉM Bpv

SOUŘADNICOVÝ SYSTÉM S-JTSK

Číslo změny:	Obsah změny:	Datum změny:
00	-	-
01	-	-
02	-	-

Objednatel:



**SPRÁVA ŽELEZNIČNÍ  
DOPRAVNÍ CESTY**

Správa železniční dopravní cesty, s.o.  
Dlážděná 1003/7, 110 00 Praha 1

Stavební správa západ  
Sokolovská 278/1955, 190 00 Praha 9

Generální projektant:



SUDOP PRAHA a.s.  
Olšanská 1a, 130 00 Praha 3  
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fax: +420 224 230 316  
e-mail: praha@sudop.cz

Hlavní inženýr projektu:

ING. MARTIN VLASÁK

Garant profese:

ING. MARTIN VLASÁK

Středisko:

SUDOP PRAHA a.s., STŘEDISKO - MOSTŮ

Vedoucí střediska:

ING. DANA WANGLER

Odpovědný projektant SO:

ING. JAKUB GÖRINGER, Ph.D.

Vypracoval:

JIŘÍ PĚNIČKA

Kontroloval:

ING. TOMÁŠ MARTINEK

Název akce:

**REKONSTRUKCE MOSTU V KM 41,791  
TRATI TÁBOR - PÍSEK**

Číslo smlouvy:

17 186 209

Projektový stupeň:

DUSP+PDPS

Část:

INŽENÝRSKÉ OBJEKTY  
MOSTY, PROPUSTKY A ZDI  
SO 20-01 ŽELEZNIČNÍ MOST PŘES VD ORLÍK

Datum:

10/2019

Číslo části:

D.2.1.4

Název přílohy:

**VÝZTUŽ NOSNÉ KONSTRUKCE - ČÁST 4**

Měřítko:

-

Počet formátů:

x A4

Číslo přílohy:

**302.4**

# POZNÁMKY:

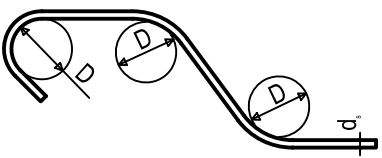
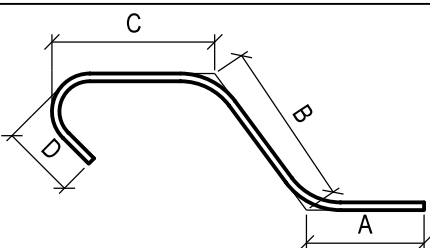
- 1. VÝZTUŽ JE VÁZÁNA NA MÍSTĚ
- 2. BETONOVÁ KRYCÍ VRSTVA  $c_{nom}$  JE DÁNA VZDÁLENOSTI MEZI POVRCHEM VÝZTUŽE NEJBLIŽŠÍM K POVRCHU BETONU (VČETNĚ SPON) A NEJBLIŽŠÍM POVRCHEM BETONU
- 3. OPATŘENÍ PROTI BLUDNÝM PROUDŮM BUDOU PROVEDENY V SOULADU S TP 124 (KAP. 5.2, 5.3, 5.4) VČETNĚ VODIVÉHO PROPOJENÍ BETONÁŘSKÉ VÝZTUŽE A JEJÍHO VYVEDENÍ NA POVRCH KONSTRUKCE. NA KAŽDÉM DILATAČNÍM CELKU BUDOU UMÍSTĚNY 2 MĚŘÍCÍ BODY.
- 4. PROFIL VÝZTUŽE NESMÍ BÝT OSLABEN ZÁPALLY A VRUBY PŘI POUŽITÍ BODOVÉHO SVARU
- 5. OPATŘENÍ PKO - VEŠKERÁ BETONÁŘSKÁ VÝZTUŽ VYSTUPUJÍCÍ Z PRACOVNÍCH SPÁR, KTERÁ NEBUDE ZABETONOVÁNA DO 8 TÝDNŮ, SE OCHRÁNÍ V CELÉ DÉLCE PROTIKOROZNÍM NÁTĚREM
- 6. DISTANČNÍ PODLOŽKY -  $4ks/m^2$
- 7. SPONY DODAT JEDNOSTRANNĚ OTEVŘENÉ. VÁZÁNÍ SPON BUDE PROVEDENO PŘES KŘÍŽ

# MATERIÁL:

PEVNOSTNÍ TŘÍDY DLE ČSN EN 1992-1-1  
STUPNĚ VLIVU PROSTŘEDÍ DLE TKP 18, ČSN EN 206+A1 A ČSN P 73 2404  
PODROBNÁ SPECIFIKACE MATERIÁLŮ JE UVEDENA V TECHNICKÉ ZPRÁVĚ  
BETON C35/45 - XC3, XF3  
OCEL B500B

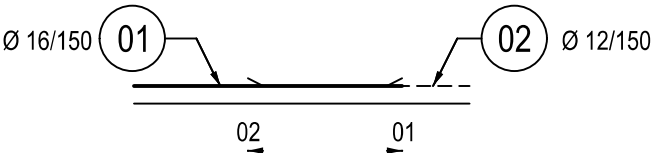
# KRYTÍ VÝZTUŽE

NOMINÁLNÍ KRYCÍ VRSTVA  $c_{nom} = 50\text{ mm}$   
MINIMÁLNÍ KRYCÍ VRSTVA  $c_{min} = 40\text{ mm}$

SCHÉMA OHYBU VÝZTUŽE	
	
SCHÉMA KÓTOVÁNÍ PRUTŮ DLE ČSN EN ISO 3766	
	
OHYBY, HÁKY, SMYČKY: D	
$d_s$ (mm)	
$\leq 16\text{ mm}$	$> 16\text{ mm}$
$4\text{ }d_s$	$7\text{ }d_s$
ROZMĚRY VÝZTUŽE V mm	
VÝZTUŽ KÓTOVÁNA NA VNĚJŠÍ ROZMĚR DLE ČSN EN ISO 3766 (METODA A)	

VÝZTUŽ KÓTOVÁNA NA VNĚJŠÍ ROZMĚR DLE ČSN EN ISO 3766 (METODA A)

SCHÉMA ZNAČENÍ PŘESAŮ



# VÝKAZ VÝZTUŽE

POL.	Ø [mm]	POČET [ks]	JEDNOTL. DÉLKA [m]	CELKOVÁ DÉLKA [m]	CELKOVÁ HMOTN. [kg]	POL.	Ø [mm]	POČET [ks]	JEDNOTL. DÉLKA [m]	CELKOVÁ DÉLKA [m]	CELKOVÁ HMOTN. [kg]
01	16	30	3,81	114,30	180.37	211	16	16	1,42	22,72	35.85
02	16	30	1,49	44,70	70.54	212	20	12	6,17	74,04	182.58
03	16	1897	12,00	22764,00	35921.59	213	12	24	6,19	148,56	131.92
04	16	115	4,20	483,00	762.17	214	16	25	1,19	29,75	46.95
05	16	60	7,80	468,00	738.50	215	10	51	1,38	70,38	43.42
06	16	115	8,90	1023,50	1615.08	216	16	24	1,78	42,72	67.41
07	16	445	3,00	1335,00	2106.63	217	16	16	2,26	36,16	57.06
08	16	665	6,00	3990,00	6296.22	218	16	8	7,91	63,28	99.86
09	16	440	9,00	3960,00	6248.88	219	16	14	1,10	15,40	24.30
10	16	55	11,54	634,70	1001.56	220	16	22	2,09	45,98	72.56
11	16	110	8,00	880,00	1388.64	221	16	3	2,88	8,64	13.63
						222	16	3	2,60	7,80	12.31
51	16	2878	5,81	16721,18	26386.02	223	16	1	5,81	5,81	9.17
52	12	3594	2,14	7691,16	6829.75	224	16	25	3,56	89,00	140.44
53	20	3108	4,26	13240,08	32650.04	225	16	25	1,90	47,50	74.95
54	20	2772	3,71	10284,12	25360.64	226	16	22	1,41	31,02	48.95
55	12	1721	1,28	2202,88	1956.16	227	16	25	2,08	52,00	82.06
56	12	1723	1,06	1826,38	1621.83	228	32	9	5,81	52,29	330.11
57	20	126	7,21	908,46	2240.26	229	16	1	1,59	1,59	2.51
58	20	470	5,81	2730,70	6733.91	230	16	9	1,36	12,24	19.31
59	12	2002	3,20	6406,40	5688.88	231	16	27	1,35	36,45	57.52
60	12	292	3,21	937,32	832.34	232	16	6	2,27	13,62	21.49
61	16	263	2,29	602,27	950.38	233	16	24	1,39	33,36	52.64
62	12	128	2,27	290,56	258.02	234	16	18	2,27	40,86	64.48
63	14	354	2,99	1058,46	1278.62	235	16	6	4,02	24,12	38.06
64	12	381	2,17	826,77	734.17	236	16	2	1,15	2,30	3.63
65	25	170	3,71	630,70	2430.09	237	16	2	0,87	1,74	2.75
66	25	590	4,21	2483,90	9570.47	238	32	9	6,41	57,69	364.20
67	25	260	3,09	803,40	3095.50	239	25	9	6,41	57,69	222.28
68	12	19	2,60	49,40	43.87	240	16	24	6,41	153,84	242.76
69	12	58	2,10	121,80	108.16	241	20	12	6,41	76,92	189.68
70	12	58	1,94	112,52	99.92	242	16	8	2,14	17,12	27.02
71	25	20	7,17	143,40	552.52	243	16	8	1,88	15,04	23.73
72	12	152	0,96	145,92	129.58	244	16	24	1,24	29,76	46.96
73	12	152	1,09	165,68	147.12	245	16	2	1,94	3,88	6.12
74	12	58	1,15	66,70	59.23	246	16	1	1,95	1,95	3.08
75	12	58	1,00	58,00	51.50	247	16	2	1,52	3,04	4.80
76	12	58	1,22	70,76	62.83	248	16	2	1,12	2,24	3.53
77	12	58	1,04	60,32	53.56	249	16	3	2,85	8,55	13.49
						250	16	3	3,25	9,75	15.39
201	16	32	2,57	82,24	129.77	251	16	16	2,26	36,16	57.06
202	25	9	5,81	52,29	201.47	252	16	2	1,88	3,76	5.93
203	16	74	1,92	142,08	224.20	254	16	5	1,80	9,00	14.20
204	16	63	1,68	105,84	167.02	255	16	3	1,79	5,37	8.47
205	16	109	3,34	364,06	574.49	256	16	8	2,40	19,20	30.30
206	16	63	3,27	206,01	325.08	257	16	6	2,21	13,26	20.92
207	16	63	1,71	107,73	170.00						
208	12	8	12,83	102,64	91.14	301	16	48	0,70	33,60	53.02
209	16	32	2,42	77,44	122.20	302	16	16	0,71	11,36	17.93
210	10	40	2,24	89,60	55.28	303	16	9	1,40	12,60	19.88

# VÝKAZ VÝZTUŽE

POL.	Ø [mm]	POČET [ks]	JEDNOTL. DĚLKA [m]	CELKOVÁ DĚLKA [m]	CELKOVÁ HMOTN. [kg]
304	16	12	1,76	21,12	33.33
305	16	80	3,92	313,60	494.86
306	16	68	3,81	259,08	408.83
307	16	4	2,13	8,52	13.44
308	12	48	2,30	110,40	98.04
309	12	104	1,94	201,76	179.16
310	12	52	1,92	99,84	88.66
311	12	8	2,64	21,12	18.75
312	12	32	1,44	46,08	40.92
313	16	12	3,88	46,56	73.47
601	16	120	1,58	189,60	299.19
602	16	40	1,96	78,40	123.72
603	16	80	0,70	56,00	88.37
604	16	400	3,92	1568,00	2474.30
605	16	400	3,88	1552,00	2449.06
606	12	8	13,24	105,92	94.06
607	16	40	2,15	86,00	135.71
608	12	240	1,44	345,60	306.89
609	12	240	1,65	396,00	351.65
610	12	240	1,32	316,80	281.32

**CELKOVÁ HMOTNOST [kg]: 199499.87**

# SCHÉMA VÝZTUŽE

01

1230

2590

Ø 16 dl. 3810 mm

02

500

1000

Ø 16 dl. 1490 mm

03

12000

Ø 16 dl. 12000 mm

04

4200

Ø 16 dl. 4200 mm

05

7800

Ø 16 dl. 7800 mm

06

8900

Ø 16 dl. 8900 mm

07

3000

Ø 16 dl. 3000 mm

08

6000

Ø 16 dl. 6000 mm

09

9000

Ø 16 dl. 9000 mm

10

11540

Ø 16 dl. 11540 mm

07

3000

Ø 16 dl. 3000 mm

08

6000

Ø 16 dl. 6000 mm

09

9000

Ø 16 dl. 9000 mm

10

11540

Ø 16 dl. 11540 mm

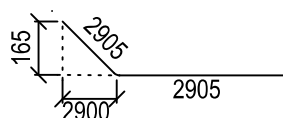
11

8000

Ø 16 dl. 8000 mm

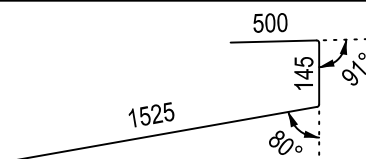
# SCHÉMA VÝZTUŽE

51



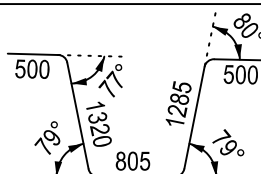
Ø 16 dl. 5810 mm

52



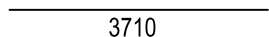
Ø 12 dl. 2140 mm

53



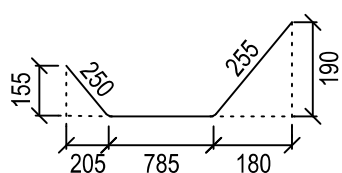
Ø 20 dl. 4260 mm

54



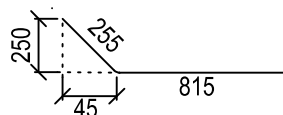
Ø 20 dl. 3710 mm

55



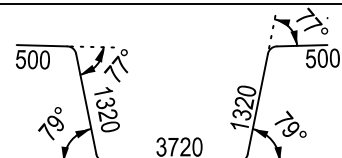
Ø 12 dl. 1280 mm

56



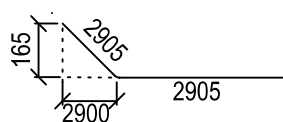
Ø 12 dl. 1060 mm

57



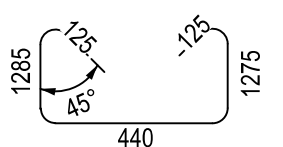
Ø 20 dl. 7210 mm

58



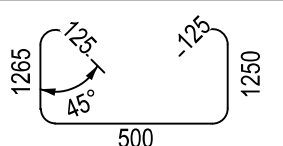
Ø 20 dl. 5810 mm

59



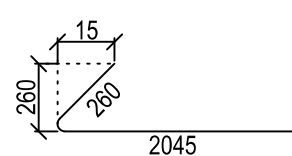
Ø 12 dl. 3200 mm

60



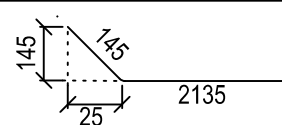
Ø 12 dl. 3210 mm

61



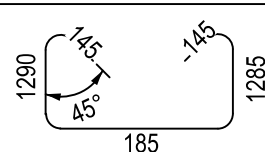
Ø 16 dl. 2290 mm

62



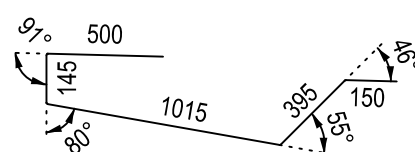
Ø 12 dl. 2270 mm

63



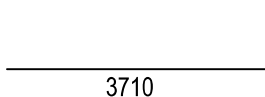
Ø 14 dl. 2990 mm

64



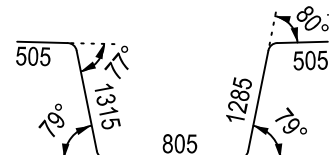
Ø 12 dl. 2170 mm

65



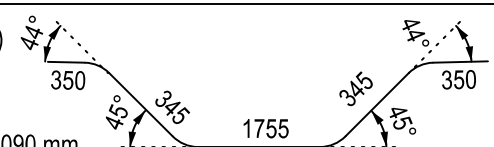
Ø 25 dl. 3710 mm

66



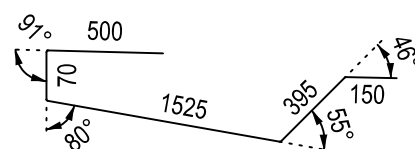
Ø 25 dl. 4210 mm

67



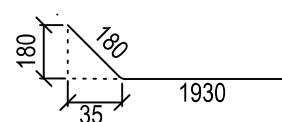
Ø 25 dl. 3090 mm

68



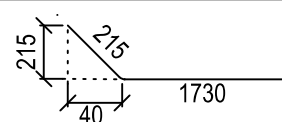
Ø 12 dl. 2600 mm

69



Ø 12 dl. 2100 mm

70

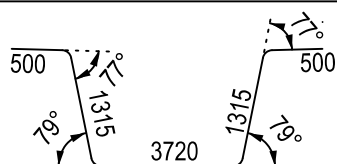


Ø 12 dl. 1940 mm

# SCHÉMA VÝZTUŽE

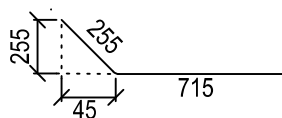
71

Ø 25 dl. 7170 mm



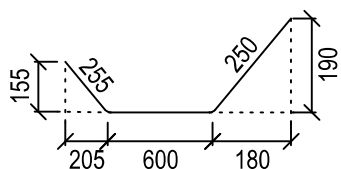
72

Ø 12 dl. 960 mm



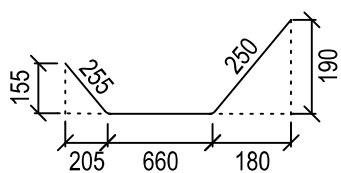
73

Ø 12 dl. 1090 mm



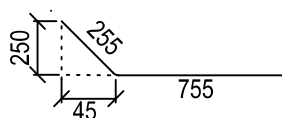
74

Ø 12 dl. 1150 mm



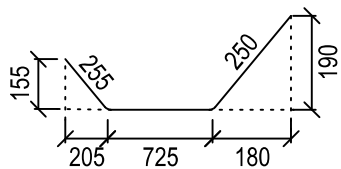
75

Ø 12 dl. 1000 mm



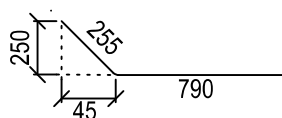
76

Ø 12 dl. 1220 mm



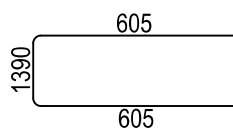
77

Ø 12 dl. 1040 mm



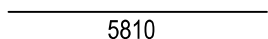
# SCHÉMA VÝZTUŽE

201



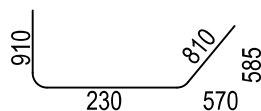
Ø 16 dl. 2570 mm

202



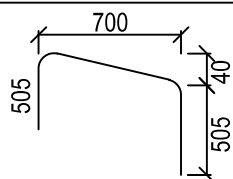
Ø 25 dl. 5810 mm

203



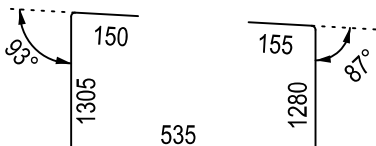
Ø 16 dl. 1920 mm

204



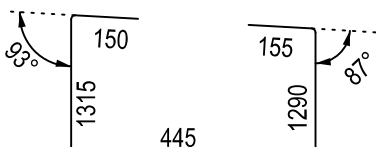
Ø 16 dl. 1680 mm

205



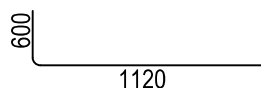
Ø 16 dl. 3340 mm

206



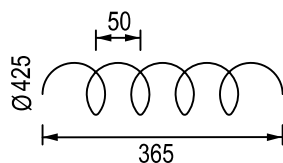
Ø 16 dl. 3270 mm

207



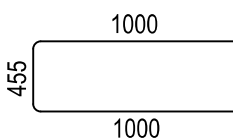
Ø 16 dl. 1710 mm

208



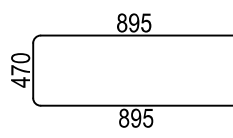
Ø 12 dl. 12830 mm

209



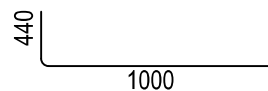
Ø 16 dl. 2420 mm

210



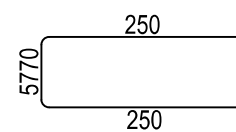
Ø 10 dl. 2240 mm

211



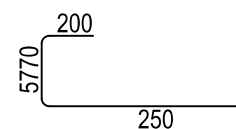
Ø 16 dl. 1420 mm

212



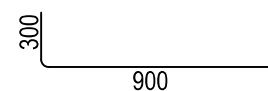
Ø 20 dl. 6170 mm

213



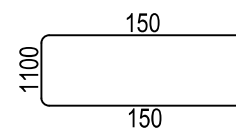
Ø 12 dl. 6190 mm

214



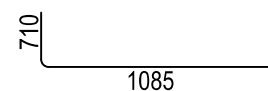
Ø 16 dl. 1190 mm

215



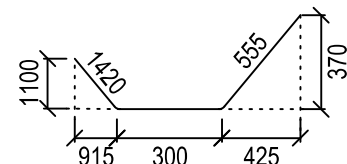
Ø 10 dl. 1380 mm

216



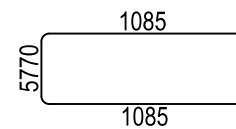
Ø 16 dl. 1780 mm

217



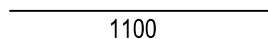
Ø 16 dl. 2260 mm

218



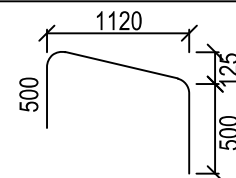
Ø 16 dl. 7910 mm

219



Ø 16 dl. 1100 mm

220

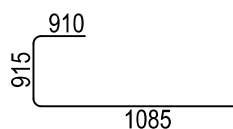


Ø 16 dl. 2090 mm



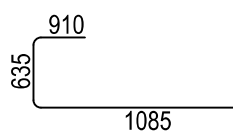
# SCHÉMA VÝZTUŽE

221



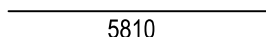
Ø 16 dl. 2880 mm

222



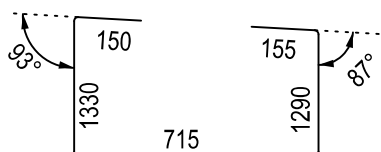
Ø 16 dl. 2600 mm

223



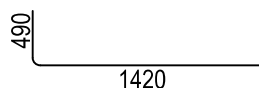
Ø 16 dl. 5810 mm

224



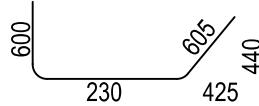
Ø 16 dl. 3560 mm

225



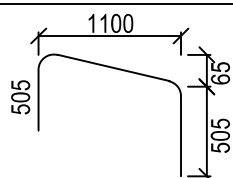
Ø 16 dl. 1900 mm

226



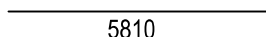
Ø 16 dl. 1410 mm

227



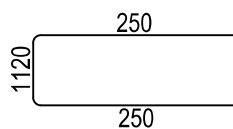
Ø 16 dl. 2080 mm

228



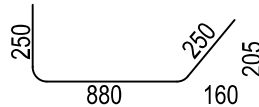
Ø 32 dl. 5810 mm

229



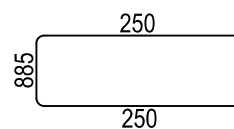
Ø 16 dl. 1590 mm

230



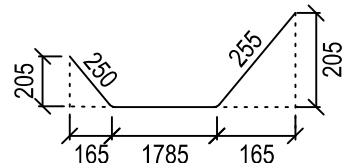
Ø 16 dl. 1360 mm

231



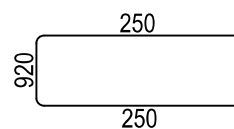
Ø 16 dl. 1350 mm

232



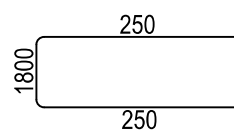
Ø 16 dl. 2270 mm

233



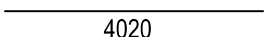
Ø 16 dl. 1390 mm

234



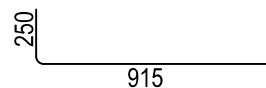
Ø 16 dl. 2270 mm

235



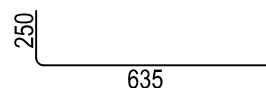
Ø 16 dl. 4020 mm

236



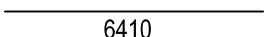
Ø 16 dl. 1150 mm

237



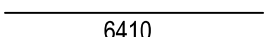
Ø 16 dl. 870 mm

238



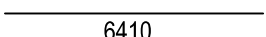
Ø 32 dl. 6410 mm

239



Ø 25 dl. 6410 mm

240



Ø 16 dl. 6410 mm

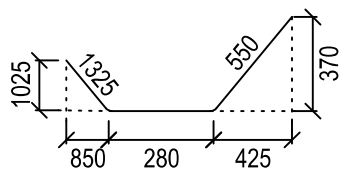
# SCHÉMA VÝZTUŽE

241

6410

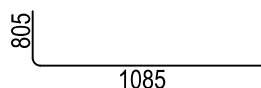
Ø 20 dl. 6410 mm

242



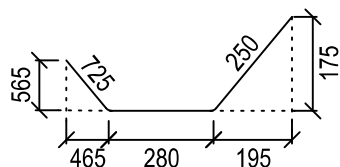
Ø 16 dl. 2140 mm

243



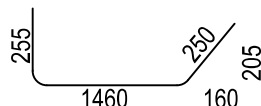
Ø 16 dl. 1880 mm

244



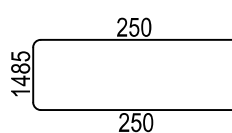
Ø 16 dl. 1240 mm

245



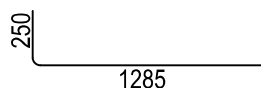
Ø 16 dl. 1940 mm

246



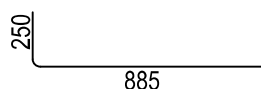
Ø 16 dl. 1950 mm

247



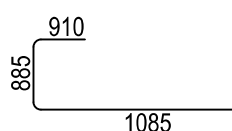
Ø 16 dl. 1520 mm

248



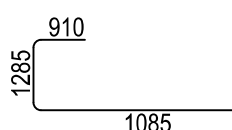
Ø 16 dl. 1120 mm

249



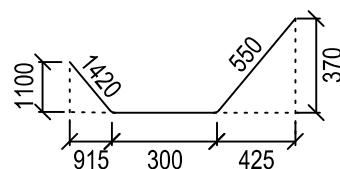
Ø 16 dl. 2850 mm

250



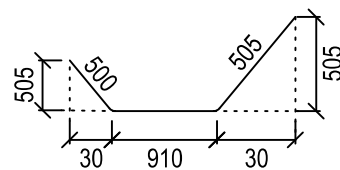
Ø 16 dl. 3250 mm

251



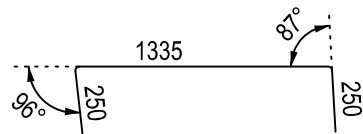
Ø 16 dl. 2260 mm

252



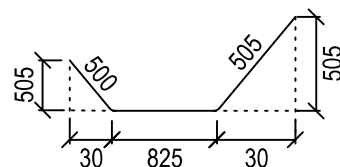
Ø 16 dl. 1880 mm

254



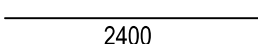
Ø 16 dl. 1800 mm

255



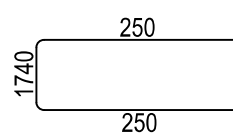
Ø 16 dl. 1790 mm

256



Ø 16 dl. 2400 mm

257



Ø 16 dl. 2210 mm

# SCHÉMA VÝZTUŽE

301

700

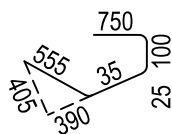
Ø 16 dl. 700 mm

302

710

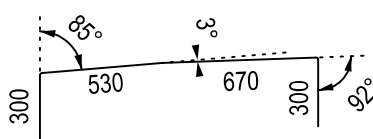
Ø 16 dl. 710 mm

303



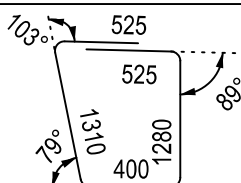
Ø 16 dl. 1400 mm

304



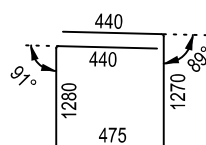
Ø 16 dl. 1760 mm

305



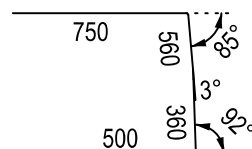
Ø 16 dl. 3920 mm

306



Ø 16 dl. 3810 mm

307



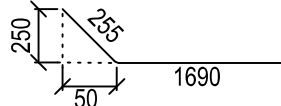
Ø 16 dl. 2130 mm

308

2300

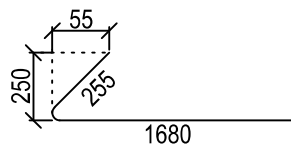
Ø 12 dl. 2300 mm

309



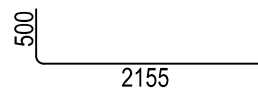
Ø 12 dl. 1940 mm

310



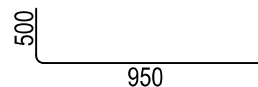
Ø 12 dl. 1920 mm

311



Ø 12 dl. 2640 mm

312



Ø 12 dl. 1440 mm

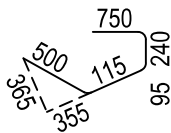
313

Ø 16 dl. 3880 mm

# SCHÉMA VÝZTUŽE

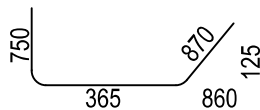
601

Ø 16 dl. 1580 mm



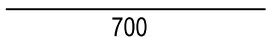
602

Ø 16 dl. 1960 mm



603

Ø 16 dl. 700 mm



604

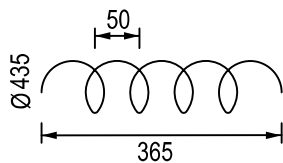
Ø 16 dl. 3920 mm

605

Ø 16 dl. 3880 mm

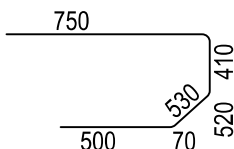
606

Ø 12 dl. 13240 mm



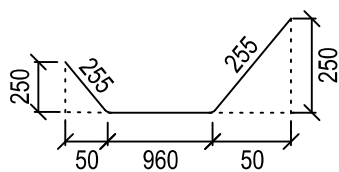
607

Ø 16 dl. 2150 mm



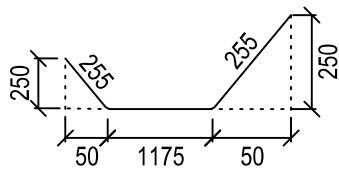
608

Ø 12 dl. 1440 mm



609

Ø 12 dl. 1650 mm



610

Ø 12 dl. 1320 mm

