



ΚΑΤΑΛΟΓ / CATALOGUE

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Бетонни стомани и заготовки Concrete reinforcing steels



ЗАВАРЕНИ АРМАТУРНИ
МРЕЖИ

STANDARD WIRE
MESH-ELECTROWELDED

1. Произведени в заводски условия
1. Produced at factory conditions.

1.1 Материал: студено изтеглена,
калибрована и оребрена тел - SAE1010
(BSt 500M According to DIN - 488)

1.1 Material: cold drawn, calibrated and
ribbed - SAE1010 (BSt 500M According
to DIN - 488)

1.2 Форма - Размери: Листове мрежа - 2.15 м x 5 м (6 м)
1.2 Form - Dimension: sheets: Width: 2,15m Length -5m (6m)

1.3 Опаковка: - пачки 50 или 100 бр.
1.3 Packing: sheets stacks: 50 or 100 ps

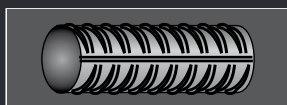
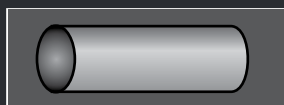


Мрежа Mesh	Размер мрежа Sheet Dimensions м/Т	Напречни / Cross			Надлъжни / Longitudinal			Тегло Weight kg/m ²
		Брой Number	Размер Distance	Диаметър Diameter	Брой Number	Размер Distance	Диаметър Diameter	
Q 92	2.15 x 5 (6)	33	150	4.2	15	150	4.2	1.50
Q 131	2.15 x 5 (6)	33	150	5.0	15	150	5.0	2.06
Q 139	2.15 x 5 (6)	50	100	4.2	22	100	4.2	2.20
Q 188	2.15 x 5 (6)	33	150	6.0	15	150	6.0	2.96
Q 221	2.15 x 5 (6)	33	150	6.5	15	150	6.5	3.48
Q 257	2.15 x 5 (6)	33	150	7.0	15	150	7.0	4.02
Q 335	2.15 x 5 (6)	33	150	8.0	15	150	8.0	5.26
R 92	2.15 x 5 (6)	20	250	4.2	15	150	4.2	1.20
R 131	2.15 x 5 (6)	20	250	5.0	15	150	5.0	1.65

2. Възможно производство и с размери на отвора: 200 x 200 мм и дължина на листа: 4 м или 6 м.
2. Possible production and on size of the hole: 200 x 200 mm and length of meshes: 4 m or 6 m.

3. Заварени мрежи производство на Хелиос Метал Център
3. Product of Helios Metal Center

Мрежа Mesh	Мрежа Sheet Dimensions mm	Размер мрежа Sheet Dimensions m	Ø 4 kg/pcs	Ø 5 kg/pcs	Ø 6 kg/pcs
40 1	200x100	4 x 2.15	12.87	20.02	28.86
50 2	200x100	5 x 2.15	16.09	25.03	36.08
60 3	200x100	6 x 2.15	19.31	30.03	43.29
26 4	200x150	4 x 2.15	9.89	15.38	22.18
33 5	200x150	5 x 2.15	12.47	19.40	27.96
40 6	200x150	6 x 2.15	15.05	23.41	33.74
20 7	200x200	4 x 2.15	8.61	13.40	19.31
25 8	200x200	5 x 2.15	10.77	16.75	24.14
30 9	200x200	6 x 2.15	12.92	20.10	28.97

СТОМАНА ЗА
АРМИРАНЕ НА БЕТОНCONCRETE REINFORCING
STEELПериодичен профил
за арматура.
(Reinforcing Steel Bars)Гладка бетонна
стомана - катанка.
(Wire Rod)

Арматура - кл. А-III A400C - A500C
ΔСТУ-3760-98-Украйна - ISO 9002
DIN - 488-BSt500S-German standard
EN - 10080-B500B-European standard

Марки стомана/Steel grades
ГОСТ 30136-95: Cm 1КП; Cm 3КП/ПС
ASTM - A510; SAE 1006; 1010; 1030
DIN - 488: St 37.2, RSt 37.2

Диаметър Diameter	Тегло Weight kg/m	Площ Cross-section
6	0.222	28.3
8	0.395	50.3
10	0.617	78.5
12	0.888	113.0
14	1.210	154.0
16	1.580	201.0
18	2.000	254.0
20	2.470	314.0
22	2.980	380.0
25	3.850	491.0
28	4.830	616.0
32	6.310	803.8
36	7.990	1018.0
40	9.870	1257.0

Диаметър Diameter	Тегло Weight kg/m	Площ Cross-section
5.5	0.187	23.8
6.0	0.222	28.3
6.5	0.260	33.2
7.0	0.302	38.5
8.0	0.395	50.3
9.0	0.500	63.6
10.0	0.617	78.5
11.0	0.750	95.0
12.0	0.888	113.0
13.0	1.040	133.5
14.0	1.210	154.0

Опаковка/тегло:
от № 8 до № 40 мм - Пакети до 5 тона
Дължина до 12 м
№ 6 и № 8 mm - ролки до 1550 kg

Packing/weight
№8 to №40 mm - Bundles up to 5 tn
Length up to 12m № 6 and № 8 - in
Coils up to 1550 kg

Опаковка: В ролки с височина до 1750 мм
Външен диаметър до 1250 мм
Вътр. отвор до 850 мм
Тегло на ролки: до 500 kg за 6,5 мм /
ГОСТ 30136-95/. от 1100 до 2100 kg.
гругите марки и размери за експорт

Packing in coils - Do - 1250 mm; Di - 850 mm
Weight: up to 500 kg coils 6,5mm /
GOST 30136-95/
Wire Rod for Export: from 1100 kg to
2100 kg/coils

ХИМИЧЕСКИ СЪСТАВ НА СТОМАНИТЕ / CHEMICAL COMPOSITION OF WIRE ROD

Steel Grades	C% max	Mn%	S%	P%	St%	Cr%	Ni%	Cn%
SAE 1006	0.08	0.3 - 0.4	0.025	0.020	0.08	0.1	0.10	0.15
SAE 1010	0.10	0.4 - 0.6	0.040	0.025	0.15	0.2	0.20	0.35
RSt 37.2	0.17	0.4 - 0.65	0.040	0.025	0.20	0.2	0.20	0.40



СТОМАНЕНИ ШИНИ

FLATS



Flats DIN 1016 & 1017 ST37. ST70

Линейно тегло, кг/м. / Linear weight, kg/m						
Дебелина/ Thickness - S mm	2,80	3,00	3,50	4,00	5,00	6,00
W mm Ширина/Width						
10		0.24		0.31	0.39	
12		0.28		0.38	0.47	0.57
14		0.33		0.44	0.55	0.66
15		0.36		0.48	0.60	
16		0.38		0.50	0.63	
18		0.42		0.56	0.71	
20	0.45	0.47	0.61	0.63	0.79	
25		0.59		0.79	0.98	
собствено производство на "Хелиос Метал Център"						
* product of "Helios Metal Center"						

Линейно тегло, кг/м / Linear weight, kg/m																		
Дебелина/ Thickness S mm	3	4	5	6	6.5	7	8	9	10	11	12	16	20	25	30	40	50	60
W mm Ширина/ Width																		
10	0.24	0.31	0.39															
12	0.28	0.38	0.47	0.57			0.75											
14	0.33	0.44	0.55	0.66			0.88											
16	0.38	0.50	0.63	0.75			1.00											
18	0.42	0.56	0.71	0.85			1.13											
20	0.47	0.63	0.79	0.94	1.02	1.10	1.26	1.41	1.57	-	1.88	2.49						
22	0.52	0.69	0.86	1.04	1.12	1.21	1.38	-	1.73	1.90	2.07							
25	0.59	0.79	0.98	1.13	1.28	1.37	1.57	-	1.96	-	2.36	3.11						
26	0.61	0.82	1.02	1.22	1.33	1.43	1.63	-	2.04	-	2.45							
28	0.66	0.88	1.10	1.32	1.43	1.54	1.76	-	2.20	-	2.64							
30	0.71	0.94	1.18	1.41	1.53	1.65	1.88	2.12	2.36	-	2.83	3.73	4.71	5.89				
32	0.75	1.00	1.26	1.51	1.63	-	2.01	-	2.51	-	3.01							
35	0.82	1.10	1.37	1.65	1.79	1.92	2.20	-	2.75	-	3.30	4.35	5.49	6.87				
38	0.89	1.19	1.49	1.79	1.94	-	2.39	-	2.98	-	3.58							
40	0.94	1.26	1.57	1.88	2.04	2.20	2.51	2.83	3.140	-	3.77	4.99	6.23	7.85	9.42			
45	1.06	1.41	1.77	2.12	2.30	2.47	2.83	-	3.53	-	4.24	5.61	7.01	8.83	10.60			
50	1.18	1.57	1.96	2.39	2.55	2.75	3.14	3.53	3.93	-	4.71	6.23	7.79	9.81	11.78	15.70		
55	1.30	1.73	2.16	2.59	2.81	-	3.45	-	4.320	-	5.18	6.85	8.57	10.79	12.95			
60	1.41	1.88	2.36	2.83	3.06	3.30	3.77	4.24	4.71	-	5.65	7.48	9.35	11.78	14.13	18.40	23.56	
65	1.53	2.04	2.55	3.06	3.32	-	4.08	4.59	5.10	-	6.12	8.16	10.21	12.76	15.31	20.41		
70	1.65	2.20	2.75	3.30	3.75	3.85	4.40	-	5.50	-	6.59	8.79	10.99	13.74	16.49	21.98	27.48	
75	1.77	2.36	2.94	3.53	3.83	-	4.71	-	5.89	-	7.07	9.42	11.78	14.72				
80	1.88	2.51	3.14	3.77	4.68	4.40	5.02	-	6.28	6.91	7.54	10.05	12.56	15.70	18.84	25.12	31.40	
90	2.12	2.83	3.53	4.24	4.59	-	5.65	6.36	7.07	7.77	8.48	11.30	14.13	17.66	21.20	28.26	35.32	
100	2.36	3.14	3.93	4.71	5.10	-	6.28	-	7.85	8.64	9.42	12.56	15.70	19.63	23.55	31.40	39.26	47.10
110	2.59	3.45	4.32	5.18	-	-	6.91	7.70	8.64	9.50	10.40	13.82	17.27	21.59	25.91	34.54	43.18	
120	-	-	4.71	5.65	-	-	7.54	-	9.42	10.40	11.30	15.07	18.84	23.55	28.26	37.68	47.10	
130			5.10	6.12			8.16		10.21		12.25	16.33	20.41	25.51	30.62	40.82	51.02	
140			5.49	6.59			8.79		10.99		13.19	17.58	21.98	27.48	32.97	43.96	54.96	
150			5.89	7.07			9.24		11.77		14.13	18.84	23.55	29.44	35.33	47.10	58.88	
160									12.56		15.07	20.10	25.12	31.40	37.68	50.24	62.80	
180									14.13		16.96	22.61	28.26	35.36	42.39	56.52	70.66	
200									15.70		18.84	25.12	31.40	39.25	47.10	62.80	78.50	

КРЪГ, КВАДРАТ, Т-ПРОФИЛ
ГОРЕЩО ВАЛЦОВАНИ

ROUNDS, SQUARES, T-SECTION
HOT ROLLED



Диаметър mm Diameter mm	Тегло kg/m Weight kg/m	Диаметър Diameter	Тегло Weight	Диаметър Diameter	Тегло Weight	Диаметър Diameter	Тегло Weight	Диаметър Diameter	Тегло Weight
		17	1.78	38	8.90	80	39.46	135	112.36
		18	2.00	40	9.86	85	44.54	140	120.84
8	0.39	19	2.23	42	10.88	90	49.94	145	129.63
9	0.50	20	2.46	45	12.48	95	55.64	150	138.72
10	0.62	22	2.98	48	14.21	100	61.65	160	157.80
11	0.75	24	3.55	50	15.41	105	67.97	170	178.20
12	0.89	25	3.85	55	18.65	110	74.60	180	199.80
13	1.04	28	4.83	60	22.20	115	81.54	190	222.60
14	1.21	30	5.55	65	26.05	120	88.78	200	246.60
15	1.39	32	6.31	70	30.21	125	96.33		
16	1.58	35	7.55	75	34.68	130	104.19		



Размер mm Size mm	Тегло kg/m Weight kg/m	Размер Size	Тегло Weight	Размер Size	Тегло Weight	Размер Size	Тегло Weight	Размер Size	Тегло Weight
		16	2.01	38	11.34	75	44.16	170	227.00
		17	2.27	40	12.56	80	50.24	180	254.30
6	0.28 *	18	2.54	42	13.84	85	56.72	190	283.40
8	0.50 *	19	2.83	45	15.90	90	63.59	200	314.00
9	0.63 *	20	3.14	48	18.08	100	78.50		
10	0.79 *	22	3.80	50	19.63	110	95.00		
11	0.95 *	25	4.91	52	21.22	120	113.00		
12	1.13 *	28	6.15	55	23.75	130	133.00		
13	1.33	30	7.07	60	28.26	140	154.00		
14	1.54	32	8.04	65	33.15	150	177.00		
15	1.77	35	9.62	70	38.47	160	201.00		



Размери/Dimension		Тегло kg/m Weight kg/m	Площ cm ² Surface cm ²	W _x cm ³
h=b mm	s mm			
20 *	3.0	0.88	1.12	0.27
25 *	3.0	1.11	1.42	0.43
30	3.0	1.35	2.14	0.72
30	4.0	1.77	2.26	0.80
35	4.0	2.08	2.65	1.10
35	4.5	2.033	2.97	1.23
40	4.0	2.41	2.99	1.46
40	5.0	2.96	3.77	1.84
45	5.0	3.36	4.29	2.30
45	6	3.98	5.08	2.73
50	5	3.75	4.80	2.94
50	6	4.44	5.66	3.36
60	7	6.23	7.94	5.48
70	8	8.32	10.60	8.79
80	9	10.70	13.60	12.80
90	10	13.40	17.10	18.20
100	11	16.40	20.90	24.60
120	13	23.20	29.60	42.00

* собствено
производство на
"Хелиос Метал Център"

* product of
"Helios Metal Center"

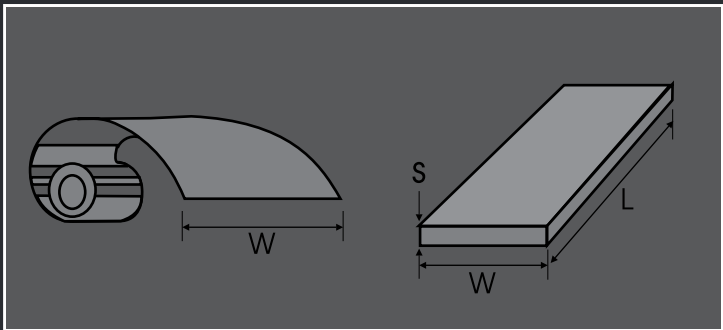


Метални конструкции
Steel constructions



ГОРЕЩО ВАЛЦОВАНА
ЛАМАРИНА

HOT ROLLED
SHEETS & STRIPS

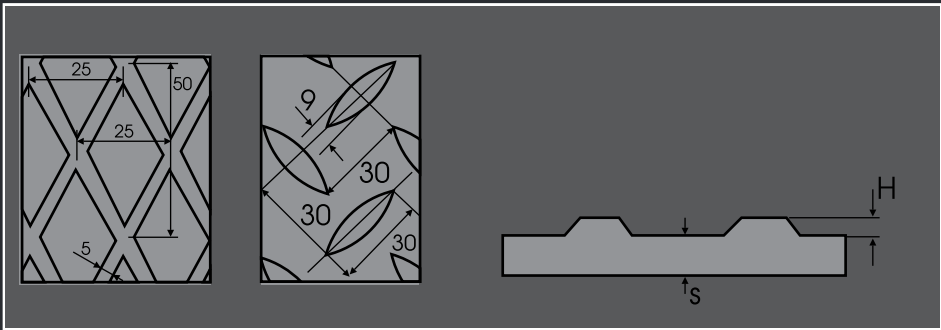


Марки стомана / Steel Grade:

ГОСТ: 08КП; 09Г2С; 3КП; 3СП; 1КП;
10Г2С; 17ГС; Сm 10; 20; 30; 40;
50; 50Г; 65Г

DIN: St 37.2; RSt 37.2; St 52.3; H II

Дебелина/ Thickness S mm	Тегло Weight kg/m ²	Дебелина/ Thickness S mm	Тегло Weight kg/m ²	Дебелина/ Thickness S mm	Тегло Weight kg/m ²	Дебелина/ Thickness S mm	Тегло Weight kg/m ²
0.40	3.15	1.10	8.64	6.00	47.1	20.00	157.0
0.45	3.54	1.25	9.82	7.00	55.0	22.00	173.0
0.50	3.93	1.50	11.78	8.00	62.8	25.00	196.0
0.55	4.32	1.80	14.13	9.00	70.7	28.00	220.0
0.60	4.71	2.00	15.70	10.00	78.5	30.00	236.0
0.65	5.10	2.50	19.63	11.00	86.4	32.00	251.0
0.70	5.50	3.00	23.60	12.00	94.2	35.00	275.0
0.80	6.28	3.50	27.50	14.00	110.0	38.00	298.0
0.90	7.07	4.00	31.40	15.00	118.0	40.00	314.0
1.00	7.85	5.00	39.30	16.00	126.0	45.00	354.0
				18.00	142.0	50.00	393.0



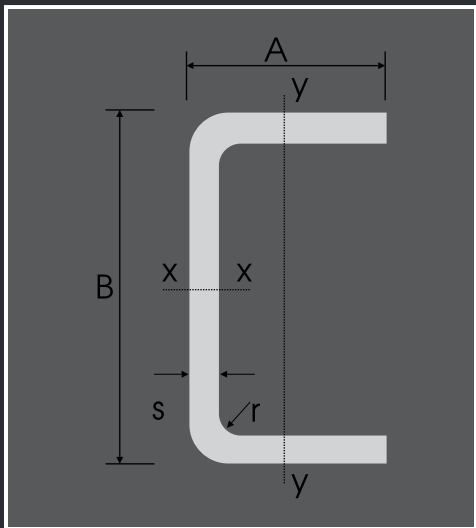
Ламарина листова
рифелна

Teary & Rhomboid
Sheets

Размер / Size S, mm	Височина на рифа Ромбоидни/Rhomboid H, mm	Височина на рифа Лещовидна/Teary H, mm	Тегло/Weight kg/m Ромбоидни / Rhomboid	Тегло/Weight kg/m Лещовидна / Teary
3	1.0	2.5	25.6	26.6
4	1.0	2.5	33.4	34.4
5	1.5	2.5	42.3	42.3
6	1.5	2.5	50.1	50.1
7	2.0	2.5	59.1	59.6
8	2.0	2.5	66.8	65.8

● "П" ОБРАЗЕН ПРОФИЛ
- СТУДЕНО ОГЪНАТ

● "UPN" - CHANNELS
COLD BEND

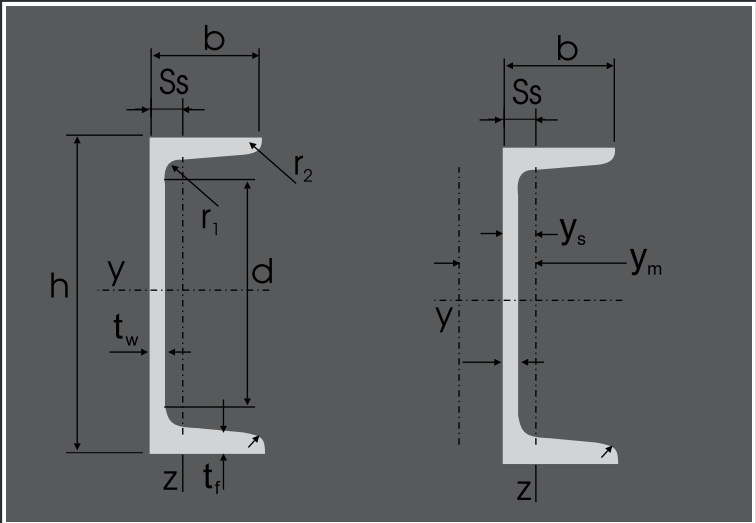


Данни по БДС-8111-75
ГОСТ 8278-75
DIN 59 413

Размери / Dimensions			Тегло kg/m Weight kg/m	Площ cm ² Surface sm ²	Геометрични характеристики / Section properties					
A x B mm mm	S mm	r mm			x - x			y - y		
					J _x sm ⁴	W _x sm ³	i _x sm	J _y sm ⁴	W _y sm ³	i _y sm
40 x 20	2.0	3.0	1.14	1.45	3.40	1.70	1.53	0.55	0.40	0.62
40 x 40	3.0	3.0	2.59	3.30	8.78	4.39	1.63	5.43	2.17	1.28
50 x 32	3.0	3.0	2.45	3.12	12.06	4.82	1.96	3.18	1.48	1.01
50 x 40	3.0	3.0	2.83	3.60	14.71	5.88	2.02	5.93	2.27	1.28
60 x 40	3.0	3.0	3.06	3.90	22.45	7.48	2.40	6.35	2.34	1.28
80 x 40	3.0	3.0	3.54	4.50	43.92	10.98	3.12	7.03	2.46	1.25
80 x 50	3.0	4.0	3.99	5.08	52.41	13.10	3.21	13.01	3.76	1.60
	4.0	6.0	5.19	6.61	65.98	16.49	3.16	16.61	4.88	1.59
100 x 50	3.0	4.0	4.46	5.68	87.88	17.58	3.93	14.05	3.90	1.57
	4.0	6.0	5.81	7.41	111.45	22.29	3.88	18.01	5.07	1.56
100 x 60	3.0	4.0	4.93	6.28	102.00	20.40	4.03	23.25	5.52	1.92
	4.0	6.0	6.44	8.21	129.89	25.98	3.98	29.93	7.20	1.91
120 x 50	3.0	4.0	4.93	6.28	134.71	22.45	4.63	14.89	4.00	1.54
	4.0	6.0	6.44	8.21	171.73	28.62	4.57	19.15	5.21	1.53
120 x 60	3.0	4.0	5.40	6.88	155.24	25.87	4.75	24.72	5.67	1.90
	4.0	6.0	7.07	9.01	198.65	33.11	4.70	31.91	7.42	1.88
140 x 60	4.0	6.0	7.70	9.81	285.42	40.77	5.40	33.57	7.59	1.85
	5.0	7.0	9.49	12.09	345.47	49.35	5.35	40.80	9.32	1.84
140 x 80	4.0	6.0	8.95	11.41	359.42	51.35	5.61	74.59	13.17	2.56
	5.0	7.0	11.06	14.09	436.63	62.38	5.57	91.13	16.23	2.54
160 x 60	4.0	6.0	8.33	10.61	391.80	48.97	6.08	34.98	7.72	1.82
	5.0	7.0	10.28	13.09	475.49	59.44	6.03	42.56	9.49	1.80
160 x 80	4.0	6.0	9.58	12.21	489.16	61.15	6.33	78.01	13.44	2.53
	5.0	7.0	11.85	15.09	595.66	74.46	6.28	95.40	16.57	2.51
180 x 60	4.0	6.0	8.95	11.41	519.39	57.71	6.75	36.19	7.84	1.78
	5.0	7.0	11.06	14.09	631.70	70.19	6.70	44.07	9.63	1.77
180 x 80	4.0	6.0	10.21	13.01	643.31	71.48	7.03	81.01	13.67	2.50
	5.0	7.0	12.63	16.09	784.86	87.21	6.98	99.15	16.86	2.48
200 x 60	4.0	6.0	9.58	12.21	669.79	66.98	7.41	37.25	7.93	1.75
	5.0	7.0	11.85	15.09	816.09	81.62	7.35	45.38	9.75	1.73
200 x 80	4.0	6.0	11.84	13.81	823.48	82.35	7.72	83.67	13.86	2.46
	5.0	7.0	13.42	17.09	1006.25	100.63	7.67	102.45	17.10	2.45

● "П" ОБРАЗЕН
ПРОФИЛ

● UPN - CHANNELS - GOST
standart 8240-89



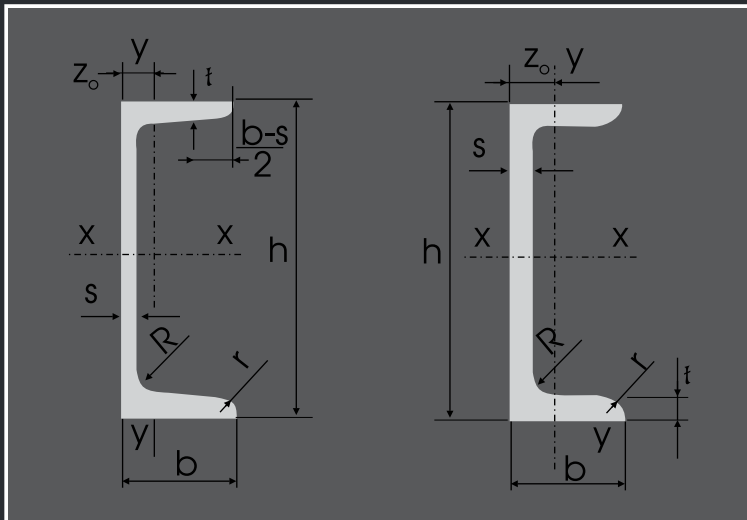
"П" образни профили
по ГОСТ-8240-89 (Швелер)

UPN - CHANNELS -
GOST standart 8240-89

профил profile N°	Размери/Dimensions						Тегло kg/m Weight kg/m	Площ cm ² Surface sm ²	Геометрични характеристики/Section properties							
									x - x				y - y			
	h mm	b mm	s mm	t mm	R mm	r mm			J _x cm ⁴	W _x cm ³	i _x cm	S _x cm ³	J _y cm ⁴	W _y cm ³	i _y cm	Z ₀ cm
5	50	32	4.4	7	6	2.5	4.84	6.16	22.8	9.1	1.92	5.59	5.61	2.75	0.954	1.16
6.5	65	36	4.4	7.2	6	2.5	5.9	7.51	48.6	15	2.54	9	8.7	3.68	1.08	1.24
8	80	40	4.5	7.4	6.5	2.5	7.05	8.98	89.4	22.4	3.16	13.3	12.8	4.75	1.19	1.31
10	100	46	4.5	7.6	7	3	8.59	10.9	174	34.8	3.99	20.4	20.4	6.46	1.37	1.44
12	120	52	4.8	7.8	7.5	3	10.4	13.3	304	50.6	4.78	29.6	31.2	8.52	1.53	1.54
14	140	58	4.9	8.1	8	3	12.3	15.6	491	70.2	5.6	40.8	45.4	11	1.7	1.67
16	160	64	5	8.4	8.5	3.5	14.2	18.1	747	93.4	6.42	54.1	63.3	13.8	1.87	1.8
16a	160	68	5	9	8.5	3.5	15.3	19.5	823	103	6.49	59.4	78.8	16.4	2.01	2
18	180	70	5.1	8.7	9	3.5	16.3	20.7	1090	121	7.24	69.8	86	17	2.04	1.94
18a	180	74	5.1	9.3	9	3.5	17.4	22.2	1190	132	7.32	76.1	105	20	2.18	2.13
20	200	76	5.2	9	9.5	4	18.4	23.4	1520	152	8.07	87.8	113	20.5	2.2	2.07
22	220	82	5.4	9.5	10	4	21	26.7	2110	192	8.89	110	151	25.1	2.37	2.21
24	240	90	5.6	10	10.5	4	24	30.6	2900	242	9.73	139	208	31.6	2.6	2.42
27	270	95	6	10.5	11	4.5	27.7	35.2	4160	308	10.9	178	262	37.3	2.73	2.47
30	300	100	6.5	11	12	5	31.8	40.5	5810	387	12	224	327	43.6	2.84	2.52
33	330	105	7	11.7	13	5	36.5	46.5	7980	484	13.1	281	410	51.8	2.97	2.59
36	360	110	7.8	12.6	14	6	41.9	53.4	10820	601	14.2	350	513	61.7	3.1	2.68
40	400	115	8	13.5	15	6	48.3	61.5	15220	761	15.7	444	642	73.4	3.23	2.75

"П" ОБРАЗЕН
ПРОФИЛ

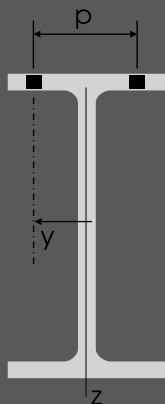
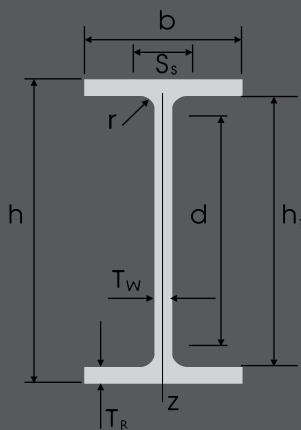
UPN - CHANNELS - European section
- European Standard EN 10025



DIN 1026, ST 37-2,
UPN - CHANNELS

профил profile N°	Размери/Dimensions								Болтови линии Dimensions for detailing		
	G kg/m	h mm	b mm	t _w mm	t _f mm	r ₁ mm	r ₂ mm	A cm ²	Ø	e _{min} mm	e _{max} mm
100	10.6	100	50	6	8.5	8.5	4.5	13.5	-	-	-
120	13.4	120	55	7	9	9	4.5	17.0	-	-	-
140	16.0	140	60	7	10	10	5	20.4	M12	33	37
160	18.8	160	65	7.5	10.5	10.5	5.5	24.0	M12	34	42
180	22.0	180	70	8	11	11	5.5	28.0	M16	38	41
200	25.3	200	75	8.5	11.5	11.5	6	32.2	M16	39	46
220	29.4	220	80	9	12.5	12.5	6.5	37.4	M16	40	51
240	33.2	240	85	9.5	13	13	6.5	42.3	M20	46	50
260	37.9	260	90	10	14	14	7	48.3	M22	50	52
280	41.8	280	95	10	15	15	7.5	53.3	M22	52	57
300	46.2	300	100	10	16	16	8	58.8	M24	55	59
320	59.5	320	100	14	17.5	17.5	8.75	75.8	M22	58	62
350	60.6	350	100	14	16	16	8	77.3	M22	56	62
380	63.1	380	102	13.5	16	16	8	80.4	M24	59	60
400	71.8	400	110	14	18	18	9	91.5	M27	61	62

профил profile N°	Геометрични карактеристики / Section properties														
	I _y cm ⁴	W _{el,y} cm ³	W _{pl,y} cm ³	i _y cm	A _{vz} cm ²	I _z cm ⁴	W _{el,z} cm ³	W _{pl,z} cm ³	i _z cm	S _s mm	I _t cm ⁴	I _w ×10 ⁻³ cm ⁶	y _s cm	y _m cm	
100	206	41.2	49	3.91	6.46	29.3	8.49	16.2	1.47	20.3	2.81	0.41	1.55	2.93	
120	364	60.7	72.6	4.62	8.8	43.2	11.1	21.2	1.59	22.2	4.15	0.9	1.6	3.03	
140	605	86.4	103	5.45	10.41	62.7	14.8	28.3	1.75	23.9	5.68	1.8	1.75	3.37	
160	925	116	138	6.21	12.6	85.3	18.3	35.2	1.89	25.3	7.39	3.26	1.84	3.56	
180	1350	150	179	6.95	15.09	114	22.4	42.9	2.02	26.7	9.55	5.57	1.92	3.75	
200	1910	191	228	7.7	17.71	148	27	51.8	2.14	28.1	11.9	9.07	2.01	3.94	
220	2690	245	292	8.48	20.62	197	33.6	64.1	2.3	30.3	16	14.6	2.14	4.2	
240	3600	300	358	9.22	23.71	248	39.6	75.7	2.42	31.7	19.7	22.1	2.23	4.39	
260	4820	371	442	9.99	27.12	317	47.7	91.6	2.56	33.9	25.5	33.3	2.36	4.66	
280	6280	448	532	10.9	29.28	399	57.2	109	2.74	35.6	31	48.5	2.53	5.02	
300	8030	535	632	11.7	31.77	495	67.8	130	2.9	37.3	37.4	69.1	2.7	5.41	
320	10870	679	826	12.1	47.11	597	80.6	152	2.81	43	66.7	96.1	2.6	4.82	
350	12840	734	918	12.9	50.84	570	75	143	2.72	40.7	61.2	114	2.4	4.45	
380	15760	829	1014	14	53.23	615	78.7	148	2.77	40.3	59.1	146	2.38	4.58	
400	20350	1020	1240	14.9	58.55	846	102	190	3.04	44	81.6	221	2.65	5.11	

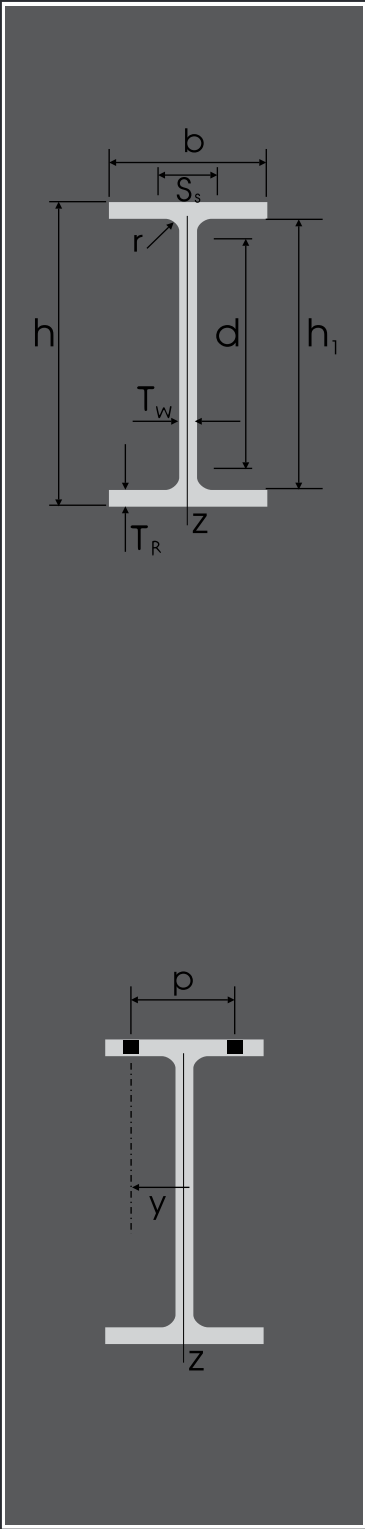


Обозначение Designation IPE	Размери/Dimensions							Болтови линии Dimensions for detailing		
	G kg/m	h mm	b mm	tw mm	tf mm	r mm	A cm ²	Ø	P _{min} mm	P _{max} mm
100	8.1	100	55	4.1	5.7	7	10.32	-	-	-
120	10.4	120	64	4.4	6.3	7	13.21	-	-	-
140	12.9	140	73	4.7	6.9	7	16.43	-	-	-
160	15.8	160	82	5.0	7.4	9	20.09	-	-	-
180	18.8	180	91	5.3	8.0	9	23.95	M10	48	48
200	22.4	200	100	5.6	8.5	12	28.48	M10	54	58
220	26.2	220	110	5.9	9.2	12	33.37	M12	60	62
240	30.7	240	120	6.2	9.8	15	39.12	M12	66	68
270	36.1	270	135	6.6	10.2	15	45.95	M16	72	72
300	42.2	300	150	7.1	10.7	15	53.81	M16	72	86
330	49.1	330	160	7.5	11.5	18	62.61	M16	78	96
360	57.1	360	170	8.0	12.7	18	72.73	M22	88	88
400	66.3	400	180	8.6	13.5	21	84.46	M22	96	98
450	77.6	450	190	9.4	14.6	21	98.82	M24	100	102
500	90.7	500	200	10.2	16.0	21	115.5	M24	102	112
550	106	550	210	11.1	17.2	24	134.4	M24	110	122
600	122	600	220	12.0	19.0	24	156.0	M27	116	118

Обозначение Designation IPE	Геометрични характеристики / Section properties											
	I _y cm ⁴	W _{el,y} cm ³	W _{pl,y} cm ³	i _y cm	A _{v,yz} cm ²	I _z cm ⁴	W _{el,z} cm ³	W _{pl,z} cm ³	i _z cm	S _s mm	I _t cm ⁴	I _x 10 ⁻³ cm ⁶
100	171.0	34.20	39.41	4.07	5.08	15.92	5.79	9.15	1.24	23.70	1.20	0.35
120	317.8	52.96	60.73	4.90	6.31	27.67	8.65	13.58	1.45	25.20	1.47	0.89
140	541.2	77.32	88.34	5.74	7.64	44.92	12.31	19.25	1.65	26.70	2.45	1.98
160	869.3	108.7	123.9	6.58	9.66	68.31	16.66	26.10	1.84	30.34	3.60	3.96
180	1317	146.3	166.4	7.42	11.25	100.9	22.16	34.60	2.05	31.84	4.79	7.43
200	1943	194.3	220.6	8.26	14.00	142.4	28.47	44.61	2.24	36.66	6.98	12.99
220	2772	252.0	285.4	9.11	15.88	204.9	37.25	58.11	2.48	38.36	9.07	22.67
240	1892	324.3	366.6	9.97	19.14	283.6	47.27	73.92	2.69	43.37	12.88	37.39
270	5790	428.9	484.0	11.23	22.14	419.9	62.20	96.95	3.02	44.57	15.94	70.58
300	8356	557.1	628.4	12.46	25.68	603.8	80.50	125.2	3.35	46.07	20.12	125.9
330	11770	713.1	804.3	13.71	30.81	788.1	98.52	153.7	3.55	51.59	28.15	199.1
360	16270	903.6	1019	14.95	35.14	1043	122.8	191.1	3.79	54.49	37.32	313.6
400	23180	1156	1307	16.55	42.69	1318	146.4	229.0	3.95	60.20	51.08	490.0
450	33740	1500	1702	18.48	50.85	1676	176.4	276.4	4.12	63.20	66.87	791.0
500	48200	1928	2194	20.43	59.87	2142	214.2	335.9	4.31	66.80	89.29	1249
550	67120	2441	2787	22.35	72.34	2668	254.1	400.5	4.45	73.62	123.2	1884
600	92080	3069	3512	24.30	83.78	3387	307.9	485.6	4.66	78.12	165.4	2846

● HEA и HEB
ПРОФИЛИ ЗА ГРЕДИ

● HEA and HEB - EUROPEAN BEAMS
WITH LIGHTENED WIDE FLANGERS

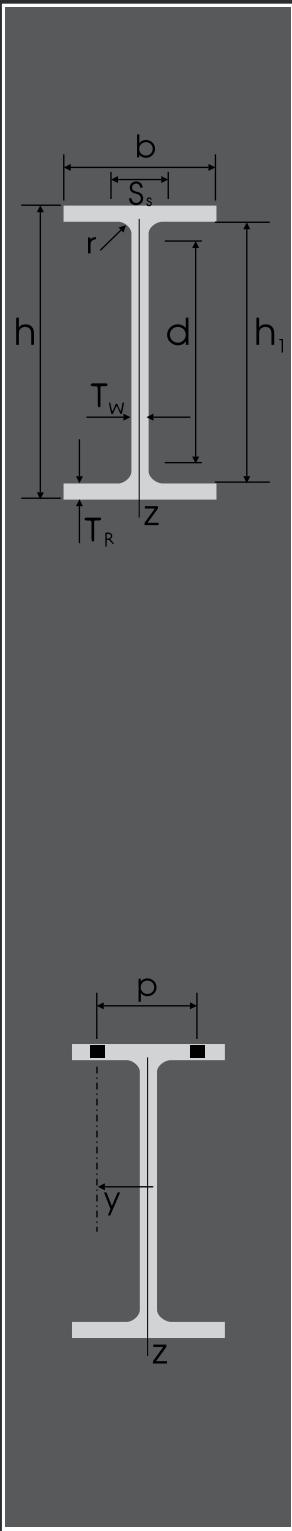


	Размери/Dimensions						Болтове линии Dimensions for detailing			
	G kg/m	h mm	b mm	t _w mm	t _f mm	r mm	A cm ²	Ø	P _{min} mm	P _{max} mm
HE100A	16.7	96	100	5.0	8.0	12	21.24	M10	54	58
HE100B	20.4	100	100	6.0	10.0	12	26.04	M10	56	58
HE120A	19.9	114	120	5.0	8.0	12	25.34	M12	58	68
HE120B	26.7	120	120	6.5	11.0	12	34.01	M12	60	68
HE140A	24.7	133	140	5.5	8.5	12	31.42	M16	64	76
HE140B	33.7	140	140	7.0	12.0	12	42.96	M16	66	76
HE160A	30.4	152	160	6.0	9.0	15	38.77	M20	78	84
HE160B	42.6	160	160	8.0	13.0	15	54.25	M20	80	84
HE180A	35.5	171	180	6.0	9.5	15	45.25	M24	86	92
HE180B	51.2	180	180	8.5	14.0	15	65.25	M24	88	92
HE200A	42.3	190	200	6.5	10.0	18	53.83	M27	98	100
HE200B	61.3	200	200	9.0	15.0	18	78.08	M27	100	100
HE220A	50.5	210	220	7.0	11.0	18	64.34	M27	98	118
HE220B	71.5	220	220	9.5	16.0	18	91.04	M27	100	118
HE240A	60.3	230	240	7.5	12.0	21	76.84	M27	104	138
HE240B	83.2	240	240	10.0	17.0	21	106.00	M27	108	138
HE260A	68.2	250	260	7.5	12.5	24	86.82	M27	110	158
HE260B	93.0	260	260	10.0	17.5	24	118.40	M27	114	158
HE280A	76.4	270	280	8.0	13.0	24	97.26	M27	112	178
HE280B	103	280	280	10.5	18.0	24	131.40	M27	114	178
HE300A	88	290	300	8.5	14.0	27	112.50	M27	118	198
HE300B	117	300	300	11.0	19.0	27	149.10	M27	120	198
HE320A	97.6	310	300	9.0	15.5	27	124.40	M27	118	198
HE320B	127	320	300	11.5	20.5	27	161.30	M27	122	198
HE340A	105	330	300	9.5	16.5	27	133.50	M27	118	198
HE340B	134	340	300	12.0	21.5	27	170.90	M27	122	198
HE360A	112	350	300	10.0	17.5	27	142.80	M27	120	198
HE360B	142	360	300	12.5	22.5	27	180.60	M27	122	198
HE400A	125	390	300	11.0	19.0	27	159.00	M27	120	198
HE400B	155	400	300	13.5	24.0	27	197.80	M27	124	198
HE450A	140	440	300	11.5	21.0	27	178.00	M27	122	198
HE450B	171	450	300	14.0	26.0	27	218.00	M27	124	198
HE500A	155	490	300	12.0	23.0	27	197.50	M27	122	198
HE500B	187	500	300	14.5	28.0	27	238.60	M27	124	198
HE550A	166	540	300	12.5	24.0	27	211.80	M27	122	198
HE550B	199	550	300	15.0	29.0	27	254.10	M27	124	198
HE600A	178	590	300	13.0	25.0	27	226.50	M27	122	198
HE600B	212	600	300	15.5	30.0	27	270.00	M27	126	198
HE650A	190	640	300	13.5	26.0	27	241.60	M27	124	198
HE650B	225	650	300	16.0	31.0	27	286.30	M27	126	198
HE700A	204	690	300	14.5	27.0	27	260.50	M27	124	198
HE700B	241	700	300	17.0	32.0	27	306.40	M27	126	198
HE800A	224	790	300	15.0	28.0	30	285.80	M27	130	198
HE800B	262	800	300	17.5	33.0	30	334.20	M27	134	198
HE900A	252	890	300	16.0	30.0	30	320.50	M27	132	198
HE900B	291	900	300	18.5	35.0	30	371.30	M27	134	198
HE1000A	272	990	300	16.5	31.0	30	346.80	M27	132	198
HE1000B	314	1000	300	19.0	36.0	30	400.00	M27	134	198



HEA и HEB
ПРОФИЛИ ЗА ГРЕДИ

HEA and HEB - EUROPEAN BEAMS
WITH LIGHTENED WIDE FLANGERS



Обозначение Designation IPE	Геометрични характеристики / Section properties											
	I_y cm ⁴	$W_{pl,y}$ cm ³	$W_{pl,y}$ cm ³	i_y cm	A_{fz} cm ²	I_z cm ⁴	$W_{pl,z}$ cm ³	$W_{pl,z}$ cm ³	i_z cm	S_z mm	I_x cm ⁴	$I_x \times 10^{-3}$ cm ⁵
HE100A	349.2	72.76	83.01	4.06	7.56	133.8	26.76	41.14	2.51	35.06	5.24	2.58
HE100B	449.5	89.91	104.2	4.16	9.04	167.3	33.45	51.42	2.53	40.06	9.25	3.38
HE120A	606.2	106.3	119.5	4.89	8.46	230.9	38.48	58.85	3.02	35.06	5.99	6.47
HE120B	864.4	144.1	165.2	5.04	10.96	317.5	52.92	80.97	3.06	42.56	13.84	9.41
HE140A	1033	155.4	173.5	5.73	10.12	389.3	55.62	84.85	3.52	36.56	8.13	15.06
HE140B	1509	215.6	245.4	5.93	13.08	549.7	78.52	119.8	3.58	45.06	20.06	22.48
HE160A	1673	220.1	245.1	6.57	13.21	615.6	76.95	117.6	3.98	41.57	12.19	31.41
HE160B	2492	311.5	354.0	6.78	17.59	889.2	111.2	170.0	4.05	51.57	31.24	47.94
HE180A	2510	293.6	324.9	7.45	14.47	924.6	102.7	156.5	4.52	42.57	14.80	60.21
HE180B	3831	425.7	481.4	7.66	20.24	1363	151.4	231.0	4.57	54.07	42.16	93.75
HE200A	3692	388.6	429.5	8.28	18.08	1336	133.6	203.8	4.98	47.59	20.98	108.0
HE200B	5696	569.6	642.5	8.54	24.83	2003	200.3	305.8	5.07	60.09	59.28	171.1
HE220A	5410	515.2	568.5	9.17	20.67	1955	177.7	270.6	5.51	50.09	28.46	193.3
HE220B	8091	735.5	827.0	9.43	27.92	2843	258.5	393.9	5.59	62.59	76.57	295.4
HE240A	7763	675.1	744.6	10.05	25.18	2769	230.7	351.7	6.00	56.10	41.55	328.5
HE240B	11260	938.3	1053	10.31	33.23	3923	326.9	498.4	6.08	68.60	102.70	486.9
HE260A	10450	836.4	919.8	10.97	28.76	3668	282.1	430.2	6.50	60.62	52.37	516.4
HE260B	14920	1148	1283	11.22	37.59	5135	395.0	602.2	6.58	73.12	123.80	753.7
HE280A	13670	1013	1112	11.86	31.74	4763	340.2	518.1	7.00	62.12	62.10	785.4
HE280B	19270	1376	1534	12.11	41.09	6595	471.0	717.6	7.09	74.62	143.70	1130.0
HE300A	18260	1260	1383	12.74	37.28	6310	420.6	641.2	7.49	68.13	85.17	1200
HE300B	25170	1678	1869	12.99	47.43	8563	570.9	870.1	7.58	80.63	185.00	1688
HE320A	22930	1479	1628	13.58	41.13	6985	465.7	709.7	7.49	71.63	108.00	1512
HE320B	30820	1926	2149	13.82	51.77	9239	615.9	939.1	7.57	84.13	225.10	2069
HE340A	27690	1678	1850	14.40	44.95	7436	495.7	755.9	7.46	74.13	127.20	1824
HE340B	36660	2156	2408	14.65	56.09	9690	646.0	985.7	7.53	86.63	257.20	2454
HE360A	33090	1891	2088	15.22	48.96	7887	525.8	802.3	7.43	76.63	148.80	2177
HE360B	43190	2400	2683	15.46	60.60	10140	676.1	1032	7.49	89.13	292.50	2883
HE400A	45070	2311	2562	16.84	57.33	8564	570.9	872.9	7.34	80.63	189.00	2942
HE400B	57680	2884	3232	17.08	69.98	10820	721.3	1104	7.40	93.13	355.70	3817
HE450A	63720	2896	3216	18.92	65.78	9465	631.0	965.5	7.29	85.13	243.80	4148
HE450B	79890	3551	3982	19.14	79.66	11720	781.4	1198	7.33	97.63	440.50	5258
HE500A	86970	3550	3949	20.98	74.72	10370	691.1	1059	7.24	89.63	309.30	5643
HE500B	107200	4287	4815	21.19	89.82	12620	841.6	1292	7.27	102.10	538.40	7018
HE550A	110900	4146	4622	22.99	83.72	10820	721.3	1107	7.15	92.13	351.5	7189
HE550B	136700	4971	5591	23.20	100.10	13080	871.8	1341	7.17	104.60	600.3	8856
HE600A	141200	4787	5350	24.97	93.21	11270	751.4	1156	7.05	94.63	397.8	8978
HE600B	171000	5701	6425	25.17	110.80	13530	902.0	1391	7.08	107.10	667.2	10970
HE650A	175200	5474	6136	26.93	103.20	11720	781.6	1205	6.97	97.13	448.3	11030
HE650B	210600	6480	7320	27.12	122.00	13980	932.3	1441	6.99	109.60	739.2	13360
HE700A	215300	6241	7032	28.75	117.00	12180	811.9	1257	6.84	100.10	513.9	13350
HE700B	256900	7340	8327	28.96	137.10	14440	962.7	1495	6.87	112.60	830.9	16060
HE800A	303400	7682	8699	32.58	138.80	12640	842.6	1312	6.65	106.10	596.9	18290
HE800B	359100	8977	10230	32.78	161.80	14900	993.6	1553	6.68	118.60	946	21840
HE900A	422100	9485	10810	36.29	163.30	13550	903.2	1414	6.50	111.10	736.8	24960
HE900B	494100	10980	12580	36.48	188.80	15820	1054	1658	6.53	123.60	1137	29460
HE1000A	553800	11190	12820	39.96	184.60	14000	933.6	1470	6.35	113.60	822.4	32070
HE1000B	644700	12890	14860	40.15	212.50	16280	1085	1716	6.38	126.10	1254	37640

IPN - ЕВРОПЕЙСКИ
СТАНДАРТНИ ГРЕДИ

IPN - EUROPEAN
STANDARD BEAMS



Обозначение Designation IPE	Размери/Dimensions								Болтови линии Dimensions for detailing		
	G kg/m	h mm	b mm	t _w mm	t _f mm	r ₁ mm	r ₂ mm	A cm ²	Ø	P _{min} mm	P _{max} mm
120	11.1	120	58	5.1	7.7	5.1	3.1	14.2	-	-	-
140	14.3	140	66	5.7	8.6	5.7	3.4	18.3	-	-	-
160	17.9	160	74	6.3	9.5	6.3	3.8	22.8	-	-	-
180	21.9	180	82	6.9	10.4	6.9	4.1	27.9	-	-	-
200	26.2	200	90	7.5	11.3	7.5	4.5	33.4	-	-	-
220	31.1	220	98	8.1	12.2	8.1	4.9	39.5	M10	50	56
240	36.2	240	106	8.7	13.1	8.7	5.2	46.1	M10	54	60
260	41.9	260	114	9.4	14.1	9.4	5.6	51.3	M12	62	62
280	47.9	280	119	10.1	15.2	10.1	6.1	61.0	M12	68	68
300	54.2	300	125	10.8	16.2	10.8	6.5	69.0	M12	70	74
320	61.0	320	131	11.5	17.3	11.5	6.9	77.7	M12	70	80
340	68.0	340	137	12.2	18.3	12.2	7.4	86.7	M12	78	86
360	76.1	360	143	13	19.5	13	7.8	97.0	M12	78	92
380	84.0	380	149	13.7	20.5	13.7	8.2	107	M16	84	86
400	92.4	400	155	14.4	21.6	14.4	8.6	118	M16	86	92
450	115	450	170	16.2	24.3	16.2	9.7	147	M16	92	106
500	141	500	185	18	27	18	10.8	179	M20	102	110
550	166	550	200	19	30	19	11.9	212	M22	112	118

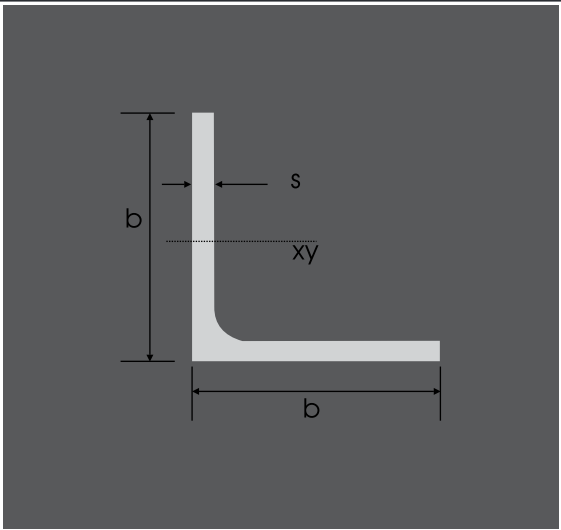
Обозначение Designation IPE	Геометрични характеристики / Section properties											
	I _y cm ⁴	W _{ely} cm ³	W _{ply} cm ³	i _y cm	A _{vz} cm ²	I _z cm ⁴	W _{elz} cm ³	W _{plz} cm ³	i _z cm	S _s mm	I _t cm ⁴	I _w ×10 ³ cm ⁶
120	328	54.7	63.6	4.81	6.63	21.5	7.41	12.4	1.23	28.4	2.71	0.69
140	573	81.9	95.4	5.61	8.65	35.2	10.7	17.9	1.40	31.8	4.32	1.54
160	935	117	136	6.4	10.83	54.7	14.8	24.9	1.55	35.2	6.57	3.14
180	1450	161	187	7.2	13.35	81.3	19.8	33.2	1.71	38.6	9.58	5.92
200	2140	214	250	8.0	16.03	117	26.0	43.5	1.87	42.0	13.5	10.5
220	1060	278	324	8.8	19.06	162	33.1	55.7	2.02	45.4	18.6	17.8
240	4250	354	412	9.59	22.33	221	41.7	70.0	2.20	48.9	25.0	28.7
260	5740	442	514	10.4	26.08	288	51.0	85.9	2.32	52.6	33.5	44.1
280	7590	542	632	11.1	30.18	364	61.2	103	2.45	56.4	44.2	64.6
300	9800	653	762	11.9	34.58	451	72.2	121	2.56	60.1	56.8	91.8
320	12510	782	914	12.7	39.26	555	84.7	143	2.67	63.9	72.5	129
340	15700	923	1080	13.5	44.27	674	98.4	166	2.80	67.6	90.4	176
360	19610	1090	1276	14.2	49.95	818	114	194	2.90	71.8	115	240
380	24010	1260	1482	15.0	55.55	975	131	221	3.02	75.4	141	319
400	29210	1460	1714	15.7	61.69	1160	149	253	3.13	79.3	170	420
450	45850	2040	2400	17.7	77.79	1730	203	345	3.43	88.9	267	791
500	68740	2750	3240	19.6	95.6	2480	268	456	3.72	98.5	402	1400
550	99180	3610	4240	21.6	111.3	3490	349	592	4.02	107.3	544	2390

IPN DIN 1025.1



РАВНОСТРАНЕН ВИНКЕЛ

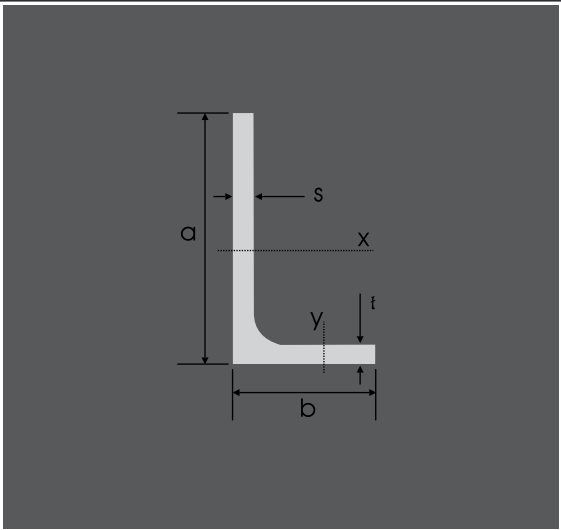
EQUAL ANGLES



РАВНОСТРАНЕН ВИНКЕЛ
EQUAL ANGLES
DIN 1028 ST 37, ST 37-1, ST 37-2

Размери Dimensions		Тегло kg/м Weight kg/m	Площ cm ² Surface cm ²	Геометрични характеристики/ Section properties W W _x =W _y cm ³
b mm	s mm			
15	3	0.68	0.81	-
20	3	0.88	1.12	0.28
20	4	1.14	1.45	-
25	3	1.12	1.42	0.45
25	4	1.45	1.85	0.58
30	3	1.36	1.74	0.65
30	4	1.78	2.27	0.86
35	3	1.60	2.04	0.90
35	4	2.10	2.67	1.18
40	3	1.84	2.35	1.18
40	4	2.42	3.08	1.56
40	5	2.97	3.79	1.91
45	4	2.74	3.49	-
45	5	3.38	4.30	2.43
45	6	4.00	5.09	2.28
50	4	3.06	3.89	-
50	5	3.77	4.80	3.05
50	6	4.47	5.69	3.61
50	7	5.15	6.56	4.15
55	5	4.18	5.32	3.70
60	5	4.57	5.82	-
60	6	5.42	6.91	5.29
60	8	7.09	9.03	6.88

Размери Dimensions		Тегло kg/м Weight kg/m	Площ cm ² Surface cm ²	Геометрични характеристики/ Section properties W W _x =W _y cm ³
b mm	s mm			
70	6	6.38	8.13	-
70	7	7.38	9.40	8.43
70	9	9.34	11.90	10.60
75	7	7.94	10.10	9.67
75	8	9.03	11.50	-
80	7	8.49	10.80	-
80	8	9.66	12.30	12.60
80	10	11.90	15.10	15.50
90	7	9.61	12.20	-
90	9	12.20	15.50	18.00
100	8	12.20	15.50	-
100	10	15.10	19.20	24.70
100	12	17.80	22.70	29.20
110	10	16.60	21.20	30.10
120	12	21.60	27.50	42.70
140	14	29.50	37.20	69.10
150	12	27.30	34.80	67.70
150	15	33.80	43.00	83.50
160	15	36.20	46.10	95.60
160	16	43.50	55.40	130.00
180	18	48.60	61.90	145.00
200	16	48.50	61.80	162.00
200	20	59.90	76.40	199.00



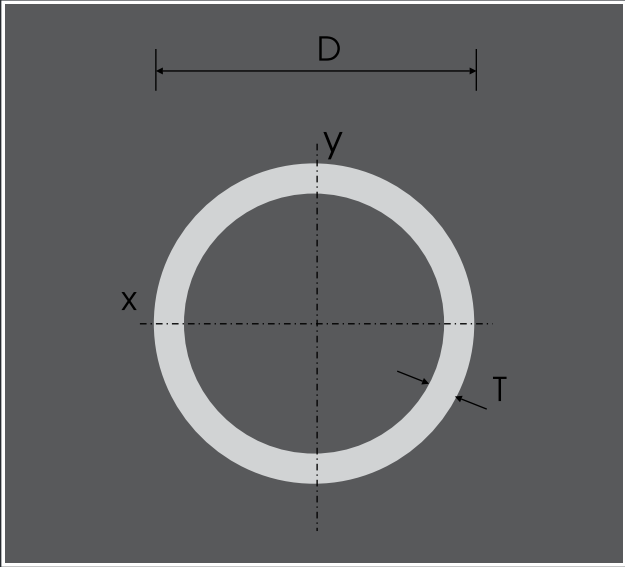
РАЗНОСТРАНЕН ВИНКЕЛ
UNEQUAL ANGLES
DIN 1029 ST 37, ST 37-2

Размери Dimensions			Тегло kg/м Weight kg/m	Площ cm ² Surface cm ²	Геометрични характеристики/ Section properties	
a mm	b mm	s mm			W W _x cm ³	W _y cm ³
40	20	3	1.35	1.72	1.08	0.30
40	20	4	1.77	2.25	1.42	0.39
60	40	5	3.76	4.79	4.25	2.02
65	50	7	5.97	7.60	6.99	4.31
75	55	5	4.95	6.30	6.84	3.89
75	55	7	6.80	8.66	9.39	5.32
80	65	8	8.66	11.00	12.30	8.41
90	60	6	6.82	8.69	11.70	5.61
90	60	8	8.96	11.40	15.40	7.31
100	50	8	8.99	11.50	18.00	5.04
100	50	10	11.10	14.10	22.20	6.17
100	65	7	8.77	11.20	16.60	7.54
100	65	9	11.10	14.20	21.00	9.52
100	75	8	10.50	13.50	19.25	11.35
100	75	10	13.05	16.60	23.70	14.10
120	80	8	12.20	15.50	27.60	13.20
120	80	10	15.00	19.10	34.10	16.20
120	80	12	17.80	22.70	40.40	19.10
125	75	8	12.20	15.40	30.10	12.00
125	75	10	15.00	19.00	37.00	14.70
130	65	8	11.90	15.10	31.10	8.72
130	65	10	14.60	18.60	38.40	10.70
130	65	12	17.30	22.10	45.50	12.70
130	90	10	16.60	21.20	40.50	20.60
130	90	12	19.70	25.10	48.00	24.40
150	75	10	16.95	21.55	51.70	14.55
150	75	12	20.30	25.70	61.80	17.40
150	90	10	18.20	23.20	53.10	20.90
150	90	12	21.60	27.50	63.10	24.70
150	100	10	19.00	24.20	54.10	25.80
150	100	12	22.60	28.70	64.20	30.60
200	100	10	23.00	29.20	93.20	26.30
200	100	12	27.30	34.80	111.00	31.30
250	90	10	26.10	33.20	140.00	21.70
250	90	12	31.10	39.60	166.00	25.80
250	90	14	36.00	45.90	192.00	29.70



ВОДО-ГАЗО ПРОВОДИМИ ТРЪБИ
ПОЦИНКОВАНИ ТРЪБИ

WATER AND GAS PIPES
GALVANIZED PIPES



Производствени стандарти
за тръбите
Pipe production standards

DIN 2440, 2441 BS 1387

Стандарти за поцинковани тръби
Galvanising standards

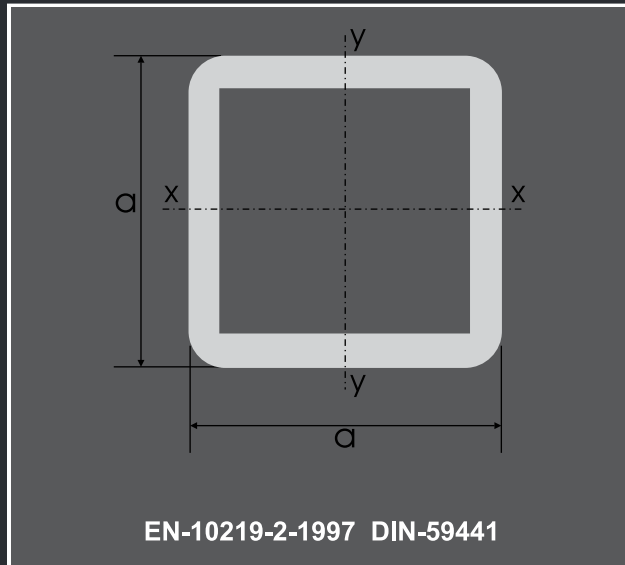
DIN 2444 BS 1387 EN 10240

Вътрешен диаметър Inside Diameter		Външен диаметър Outside Diameter mm	Дебелина на стената Wall Thickness mm	Тегло черна тръба Weight kg/m	Тегло поцинкована тръба Weight kg/m	Тегло черна тръба с резба и муфа Weight kg/m	Тегло поцинкована тръба с резба и муфа Weight kg/m
цол / inc	mm						
3/8	10	17.2	2.35	0.852	0.890	0.860	0.897
1/2	15	21.3	2.65	1.22	1.27	1.23	1.29
3/4	20	26.9	2.65	1.58	1.65	1.59	1.66
1	25	33.7	3.25	2.44	2.55	2.46	2.57
1 1/4	32	42.4	3.25	3.14	3.28	3.17	3.31
1 1/2	40	48.3	3.25	3.61	3.77	3.65	3.81
2	50	60.3	3.65	5.10	5.33	5.17	5.40
2 1/2	65	76.1	3.65	6.51	6.80	6.63	6.93
3	80	88.9	4.05	8.47	8.85	8.64	9.03
4	100	114.3	4.50	12.10	12.60	12.40	13.00
5	125	139.7	4.85	16.20	16.90	16.70	17.50
6	150	165.1	4.85	19.20	20.10	19.80	20.70

Стандартна серия / Standart series

● КВАДРАТНИ ТРЪБИ

● SQUARE HOLLOW SECTION



Марки стомана / Steel Grade

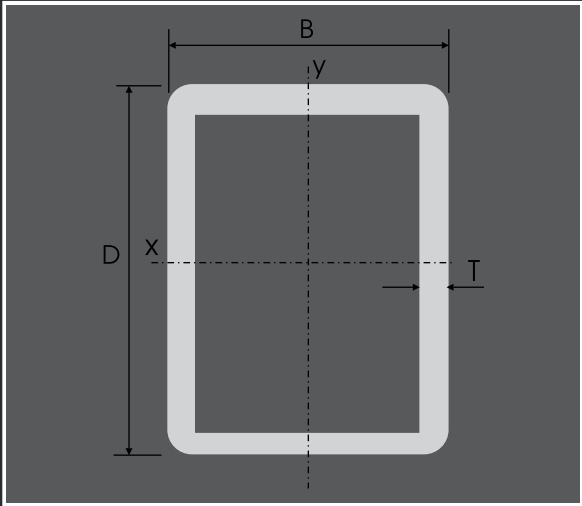
ГОСТ: Ст. 08КП, Ст. 1КП, Ст. 3ПС, Ст. 10
DIN: St 13, Rst 37.2

Размери Dimension		Тегло kg/m Weight kg/m	Площ cm ² Surface cm ²	Геометрични характеристики / Section properties		
D mm	T mm			J cm ⁴	i cm	W cm ³
20	1.2	0.70	0.86	0.48	0.75	0.48
20	1.5	0.87	1.02	0.56	0.74	0.56
20	2.0	1.13	1.3	0.66	0.71	0.66
25	1.2	0.90	1.16	1.00	0.93	0.80
25	1.5	1.12	1.28	1.18	0.96	0.94
25	2.0	1.48	1.68	1.42	0.92	1.14
30	1.2	1.09	1.33	1.79	1.16	1.20
30	1.5	1.35	1.62	2.14	1.15	1.43
30	2.0	1.78	2.10	2.63	1.12	1.75
38	1.5	1.72	2.11	4.57	1.47	2.41
38	2.0	2.17	2.75	5.72	1.44	3.01
40	1.5	1.83	2.22	5.38	1.56	2.29
40	2.0	2.41	2.90	6.76	1.53	3.38
40	3.0	3.55	4.08	8.96	1.48	4.48
50	2.0	3.01	3.70	13.85	1.93	5.54
50	2.5	3.73	4.51	16.50	1.91	6.60
50	3.0	4.44	5.28	18.86	1.89	7.54
50	4.0	5.82	6.81	22.76	1.83	9.10
50	5.0	7.15	8.14	25.67	1.78	10.27
60	2.0	3.65	4.50	24.70	2.34	8.23
60	2.5	4.53	5.52	29.68	2.32	9.89
60	3.0	5.40	6.49	34.21	2.30	11.40
60	4.0	7.10	8.41	42.04	2.24	14.01
60	5.0	8.75	10.10	48.03	2.19	16.17
70	2.0	4.29	5.30	40.11	2.75	11.46
70	3.0	6.36	7.69	56.23	2.70	16.07
70	4.0	8.39	10.10	69.97	2.65	19.99
70	5.0	10.36	12.10	81.50	2.60	23.29

Размери Dimension		Тегло kg/m Weight kg/m	Площ cm ² Surface cm ²	Геометрични характеристики / Section properties		
D mm	T mm			J cm ⁴	i cm	W cm ³
80	2.0	4.93	6.10	60.88	3.16	15.22
80	3.0	7.32	8.89	86.11	3.11	21.53
80	4.0	9.67	11.60	108.13	3.05	27.03
80	5.0	11.96	14.10	127.17	3.00	31.79
90	2.5	6.87	8.52	106.96	3.54	23.77
90	3.0	8.21	10.10	125.04	3.52	27.79
90	4.0	10.90	13.20	158.14	3.46	35.14
90	5.0	13.44	16.10	187.33	3.41	41.63
100	3.0	9.17	9.52	148.64	3.95	29.73
100	4.0	12.14	11.25	174.24	3.94	34.85
100	5.0	15.05	14.80	221.59	3.87	44.32
100	6.0	17.91	18.10	264.00	3.82	52.80
120	3.0	11.05	13.70	308.21	4.74	51.37
120	4.0	14.64	18.00	395.20	4.69	65.87
120	5.0	18.18	22.10	474.83	4.64	79.14
120	6.0	21.67	26.00	547.43	4.59	91.24
140	3.0	12.24	16.10	497.62	5.56	71.09
140	4.0	16.22	21.20	641.77	5.50	91.68
140	5.0	20.15	26.10	775.67	5.45	110.81
140	6.0	24.05	30.76	899.69	5.41	128.53
150	3.0	14.11	17.10	612.12	6.00	82.15
150	4.0	18.72	22.80	796.41	5.91	106.19
150	5.0	23.28	28.10	964.83	5.86	128.64
150	6.0	27.79	33.10	1121.77	5.82	149.57
200	4.0	24.60	31.30	2000.0	8.00	200.0
200	5.0	30.50	38.90	2460.0	7.95	246.0
200	6.3	38.20	48.60	3033.0	7.90	303.0
200	8.0	48.00	61.10	3744.0	7.83	374.0

ПРАВОЪГЪЛНИ
ТРЪБИ

RECTANGULAR
HOLLOW SECTIONS

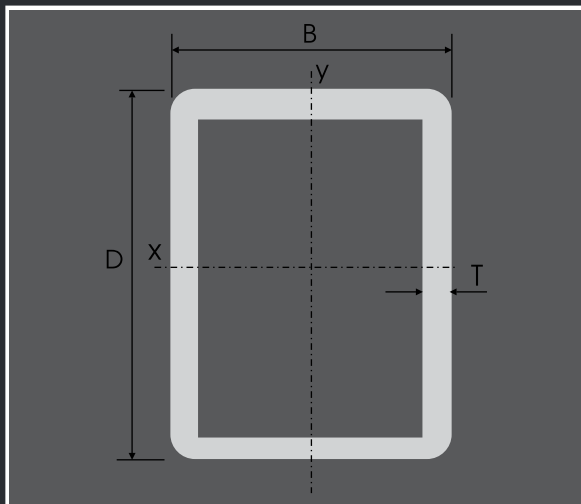


EN-100219-2/97
DIN 59411

Размери / Dimensions		Тегло kg/m Weight kg/m	Площ cm ² Surface cm ²	Геометрични характеристики / Section properties					
D x B mm mm	T mm			x - x			y - y		
				J _x cm ⁴	W _x cm ³	i _x cm	J _y cm ⁴	W _y cm ³	i _y cm
30 x 20	1.2	0.89	1.13	1.30	0.86	1.07	0.70	0.70	0.78
30 x 20	1.5	1.12	1.28	1.53	1.02	1.09	0.82	0.82	0.80
30 x 20	2.0	1.48	1.86	1.84	1.23	1.00	0.98	0.98	0.73
40 x 20	1.2	1.09	1.34	2.65	1.33	1.41	0.91	0.91	0.82
40 x 20	1.5	1.35	1.68	3.16	1.58	1.37	1.07	1.07	0.80
40 x 20	2.0	1.78	2.10	3.87	1.93	1.36	1.31	1.31	0.79
40 x 25	1.2	1.22	1.56	4.15	1.84	1.63	1.68	1.34	1.04
40 x 25	1.5	1.49	1.95	4.98	2.21	1.60	2.01	1.61	1.01
40 x 25	2.0	1.97	2.45	6.18	2.75	1.59	2.48	1.99	1.01
40 x 30	1.5	1.61	1.95	4.27	2.13	1.48	2.75	1.83	1.19
40 x 30	2.0	2.07	2.45	5.31	2.66	1.47	3.14	2.28	1.18
50 x 30	1.5	1.83	2.23	7.36	2.94	1.82	3.36	2.24	1.23
50 x 30	2.0	2.28	2.90	9.24	3.70	1.78	4.20	2.80	1.20
50 x 30	2.5	2.5	3.52	10.85	4.34	1.76	4.92	3.28	1.18
50 x 40	1.5	2.05	2.51	9.13	3.65	1.91	6.49	3.25	1.61
50 x 40	2.0	2.71	3.28	11.54	4.62	1.88	8.20	4.10	1.58
50 x 40	3.0	3.99	4.54	15.54	6.22	1.85	11.02	5.51	1.56
50 x 40	4.0	5.23	5.90	18.52	7.41	1.77	13.12	6.56	1.49
60 x 20	1.5	1.83	2.23	8.99	3.00	2.01	1.59	1.59	0.84
60 x 20	2.0	2.41	2.90	11.24	3.75	1.97	1.96	1.96	0.82
60 x 30	1.5	2.05	2.51	11.56	3.85	2.15	3.97	2.65	1.26
60 x 30	2.0	2.71	3.28	14.60	4.87	2.11	4.98	3.32	1.23
60 x 30	2.5	3.36	3.98	17.27	5.76	2.08	5.86	3.91	1.21
60 x 30	3.0	3.39	4.54	19.58	6.53	2.08	6.62	4.41	1.21
60 x 40	2.0	3.01	3.70	17.97	5.99	2.20	9.65	4.82	1.61
60 x 40	2.5	3.73	4.51	21.41	7.14	2.18	11.47	5.73	1.59
60 x 40	3.0	4.44	5.28	24.46	8.15	2.15	13.08	6.54	1.57
60 x 40	4.0	5.82	6.81	29.48	9.83	2.08	15.72	7.86	1.52

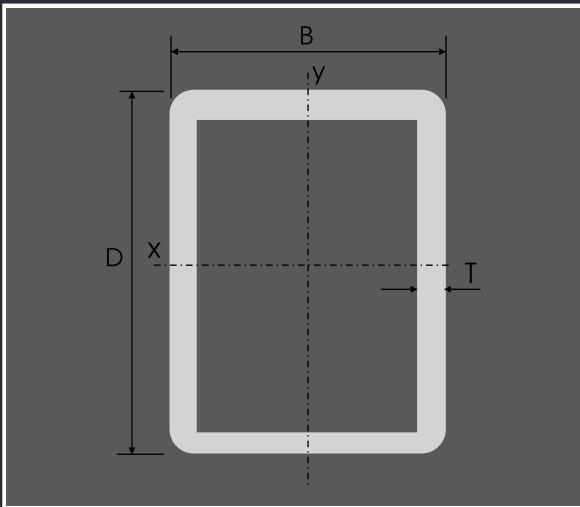
ПРАВОЪГЪЛНИ
ТРЪБИ

RECTANGULAR
HOLLOW SECTIONS



EN-100219-2/97
DIN 59411

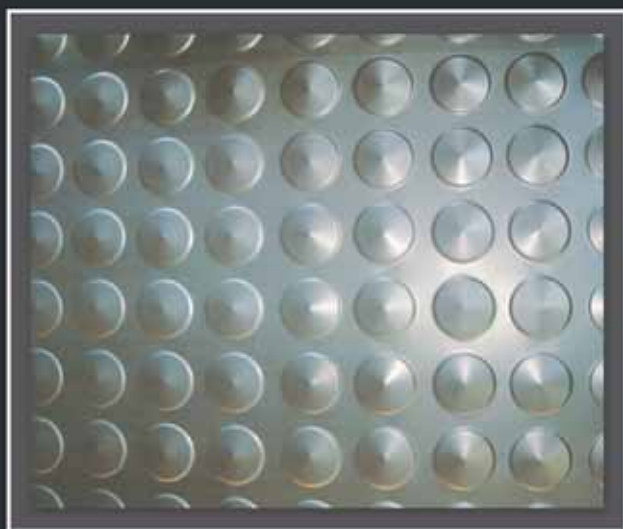
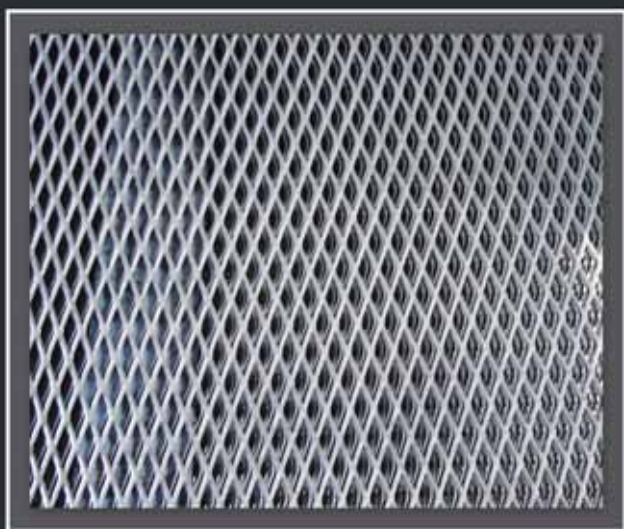
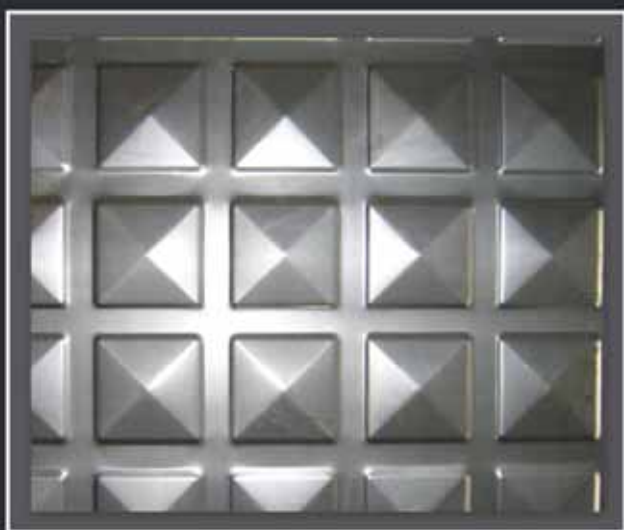
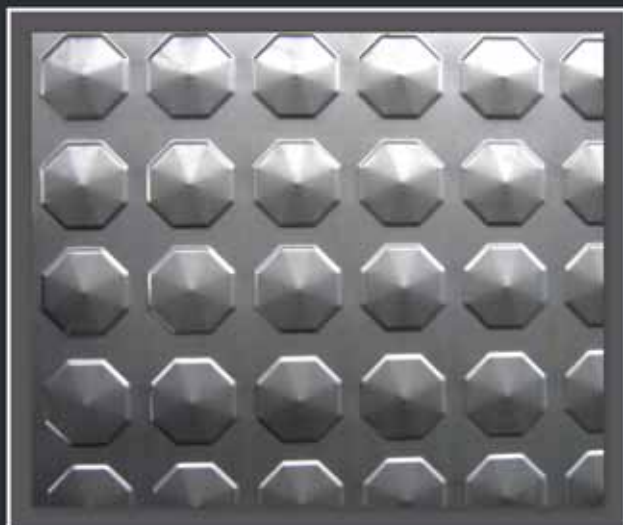
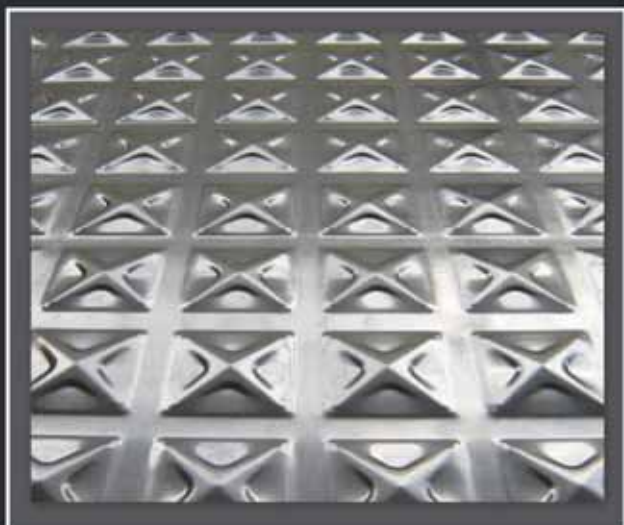
Размери / Dimensions		Тегло kg/m Weight kg/m	Площ cm ² Surface cm ²	Геометрични характеристики / Section properties					
D x B mm mm	T mm			x - x			y - y		
				J _x cm ⁴	W _x cm ³	i _x cm	J _y cm ⁴	W _y cm ³	i _y cm
70 x 30	1.5	2.27	2.82	17.02	4.86	2.46	4.58	3.05	1.27
70 x 30	2.0	3.01	3.70	21.61	6.17	2.42	5.77	3.85	1.25
70 x 30	2.5	3.73	4.51	25.69	7.34	2.39	6.81	4.54	1.23
70 x 30	3.0	4.44	4.29	29.28	8.37	2.35	7.72	5.15	1.21
80 x 20	1.5	2.27	2.82	19.27	4.82	2.61	2.10	2.10	0.86
80 x 20	2.0	3.01	3.70	24.37	6.09	2.57	2.61	2.61	0.84
80 x 20	2.5	3.73	4.51	28.84	7.21	2.53	3.03	3.03	0.82
80 x 40	2.0	3.65	4.50	36.54	9.13	2.85	12.54	6.27	1.67
80 x 40	3.0	5.40	6.49	50.51	12.63	2.79	17.19	8.60	1.63
80 x 40	4.0	7.10	8.41	61.88	15.47	2.71	20.92	10.46	1.58
80 x 40	5.0	8.75	10.10	70.73	17.71	2.65	23.83	11.92	1.54
90 x 50	2.0	4.29	5.34	67.90	12.90	3.29	23.40	9.35	2.09
90 x 50	3.0	6.36	7.81	81.90	18.20	3.24	32.70	13.10	2.05
90 x 50	4.0	8.39	10.10	103.0	22.80	3.18	40.70	16.30	2.00
90 x 50	5.0	10.36	12.40	121.0	26.80	3.12	47.40	18.90	1.97
100 x 20	1.5	2.75	3.42	35.19	7.04	3.21	2.62	3.62	0.87
100 x 20	2.0	3.65	4.50	44.86	8.97	3.16	3.26	3.26	0.85
100 x 20	2.5	4.53	5.52	53.55	10.71	3.11	3.80	3.80	0.83
100 x 40	2.0	4.29	5.30	64.07	12.81	3.48	15.43	7.72	1.71
100 x 40	3.0	6.46	7.69	89.53	17.91	3.41	23.31	10.66	1.66
100 x 40	4.0	8.39	10.00	110.93	22.19	3.33	26.13	13.06	1.62
100 x 40	5.0	10.86	12.10	128.50	25.70	3.26	30.00	15.00	1.57
100 x 50	2.0	4.59	5.70	73.68	14.74	3.60	25.38	10.15	2.11
100 x 50	3.0	6.81	8.28	103.65	20.73	3.54	35.45	14.18	2.07
100 x 50	4.0	8.98	10.80	129.37	25.87	3.46	43.97	17.59	2.02
100 x 50	5.0	11.10	13.10	151.08	30.22	3.40	51.08	20.43	1.97
100 x 60	2.0	4.93	6.10	83.28	16.66	3.69	38.16	12.72	2.50
100 x 60	3.0	7.32	8.82	117.77	23.55	3.64	53.73	17.91	2.46
100 x 60	4.0	9.67	11.60	147.81	29.56	3.57	67.17	22.39	2.41
100 x 60	5.0	11.96	14.10	173.67	34.73	3.51	78.67	26.22	2.36
120 x 60	2.0	5.52	6.10	102.16	17.03	4.09	18.32	9.16	1.73
120 x 60	3.0	8.21	8.89	143.91	23.98	4.02	25.43	12.71	1.69
120 x 60	4.0	10.90	11.60	179.81	29.97	3.94	31.33	15.67	1.64
120 x 60	5.0	13.44	14.10	210.11	35.03	3.86	36.17	18.08	1.60



EN-100219-2/97
DIN 59411

Размери / Dimensions		Тегло kg/m Weight kg/m	Площ cm ² Surface cm ²	Геометрични характеристики / Section properties					
D x B mm mm	T mm			x - x			y - y		
				J _x cm ⁴	W _x cm ³	i _x cm	J _y cm ⁴	W _y cm ³	i _y cm
140 x 60	3.0	9.17	11.25	272.36	38.91	4.92	73.24	24.41	2.55
140 x 60	4.0	12.14	14.80	345.75	49.39	4.83	92.31	30.77	2.50
140 x 60	5.0	15.02	18.10	411.00	58.71	4.77	109.00	36.33	2.45
140 x 60	6.0	17.91	21.15	468.45	66.92	4.71	123.49	41.16	2.42
150 x 50	3.0	9.17	11.25	291.94	38.93	5.09	52.04	20.82	2.15
150 x 50	4.0	12.14	14.80	369.99	49.33	5.00	65.19	26.07	2.10
150 x 50	5.0	15.02	18.10	439.00	58.53	4.92	76.50	30.60	2.06
150 x 50	6.0	17.91	21.15	499.33	66.58	4.86	86.13	34.45	2.02
150 x 100	3.0	11.50	14.25	454.03	60.54	5.64	244.83	48.97	4.14
150 x 100	4.0	15.13	18.80	583.20	77.76	5.57	313.80	62.76	4.09
150 x 100	5.0	19.00	23.10	701.92	93.59	5.51	376.92	75.38	4.04
150 x 100	6.0	22.65	27.14	810.55	108.07	5.46	434.45	86.89	4.00
160 x 80	3.0	11.05	13.70	456.25	57.03	5.77	157.29	39.32	3.39
160 x 80	4.0	14.65	18.00	584.64	73.08	5.70	200.64	50.16	3.34
160 x 80	5.0	18.19	22.10	701.83	87.73	5.64	239.83	59.96	3.29
160 x 80	6.0	21.61	26.00	808.23	101.03	5.58	275.11	68.78	3.25
180 x 60	3.0	11.05	13.70	517.19	57.47	6.14	92.75	30.92	2.60
180 x 60	4.0	14.64	18.00	661.44	73.49	6.06	117.44	39.15	2.55
180 x 60	5.0	18.19	22.10	792.33	88.04	5.99	139.33	46.44	2.51
180 x 60	6.0	21.61	26.00	910.31	101.15	5.92	158.63	52.88	2.47
200 x 50	3.0	11.50	14.25	621.23	62.12	6.60	68.63	27.45	2.19
200 x 50	4.0	15.13	18.80	794.60	79.46	6.50	86.40	34.56	2.14
200 x 50	5.0	19.00	23.10	951.92	95.19	6.42	101.92	40.77	2.10
200 x 50	6.0	22.65	27.14	1093.65	109.37	6.35	115.35	46.14	2.06
200 x 100	3.0	14.10	17.10	912.32	91.23	7.30	315.42	63.08	4.29
200 x 100	4.0	18.72	22.80	1178.81	117.88	7.19	406.01	81.20	4.22
200 x 100	5.0	23.28	28.10	1427.33	142.73	7.13	489.83	97.97	4.18
200 x 100	6.0	27.79	33.10	1658.37	165.84	7.08	567.17	113.43	4.14
200 x 100	8.0	36.67	43.79	2139.78	213.98	6.99	716.81	143.36	4.05
250 x 150	6.0	35.82	45.63	3884.52	1767.48	9.23	319.76	235.66	6.23
250 x 150	8.0	46.94	59.79	4963.19	2246.22	9.11	397.06	299.50	6.13
300 x 200	6.0	45.24	57.63	7369.24	3961.20	11.31	491.28	396.12	8.29
300 x 200	8.0	59.50	75.79	9501.57	5090.61	11.20	633.44	509.06	8.20
300 x 200	10.0	73.90	94.20	11857.20	6281.50	11.22	790.50	628.20	8.17
400 x 200	8.0	73.10	93.10	19710.00	6695.00	14.60	985.00	669.00	8.48
400 x 200	10.0	90.70	116.00	24140.00	8128.00	15.50	1207.00	813.00	8.39

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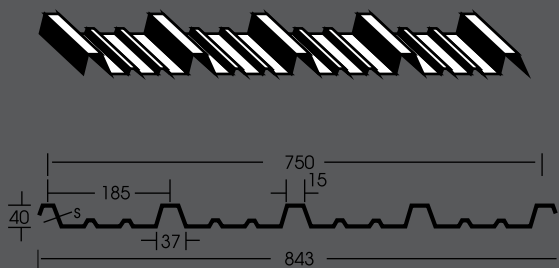




Профилни ламарини Profile sheets

● ЛАМАРИНА-СТУДЕНО ВАЛЦОВАНА
ЛАМАРИНА - ПОЦИНКОВАНА

● SHEETS AND STRIPS COLD ROLLRD
SHEETS AND STRIPS GALVANIZED

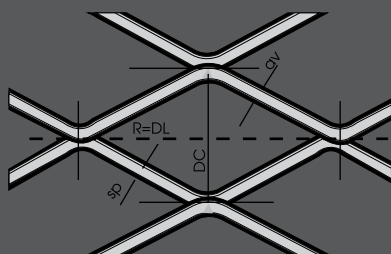


Трапезовидна 40/190

Дебелина/ Thickness S mm	Тегло Weight kg/m ²	W _x cm ²
0.45	3.53	3.37
0.50 *	4.00	5.33
0.60 *	4.75	6.33
0.70 *	5.50	7.33
0.80	6.28	6.00
0.90	7.07	6.77
1.00	7.85	7.54

* собствено производство на
"Хелиос Метал Център"

* product of "Helios Metal Center"

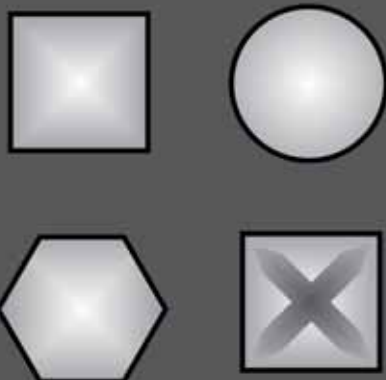


Просечено-изтеглена
ламарина
Expanded mesh sheet

R = ромбоидни / rhomboid
SR = ромбоидни валцовани /
rhomboid rolled

R - ромбоидни / rhomboid = DL
DL - надлъжен диагонал /
longitudinal diagonal
av - изместване / dislocation
sp - дебелина / thickness

Дебелина/ Thickness S mm	Размери/ Dimensions mm	Тегло Weight kg
3	1000 x 2500	23.55
3	1256 x 3100	29.58
4	1000 x 2500	31.40
4	1256 x 3100	39.44



Щампована
ламарина

Stamp sheet

Дебелина/ Thickness S mm	Размери/ Dimensions mm	Тегло Weight kg
1.0	1000 x 2000	16
1.2	1000 x 2000	19.2
1.5	1000 x 2000	24



EN 10025-2 2004	Преходни стандарти / Previous standards												
	EN 10025 1990 +A1:1993	EN 10025 1990	NF A 35-501	DIN 17100	BS4360	UNE 36080 NBN A21-101	UNI 7070	SS 14	NS 12101	ÖNORM M1316	ASTM	CSA G 40- 21	JIS G 3101 JIS G 3106
	S235JR	Fe360B	E24-2	St37-2		AE235B	Fe360B	1311-00	NS12120				
	S235JRG1	Fe360BFU		Ust37-2		AE235B-FU			NS12122	Ust 360 B			
S235JR	S235JRG2	Fe360BFN		RSt37-2	40B	AE235B-FN		1312-00	NS12123	RSt 360 B			
S235J0	S235J0	Fe360C	E24-3	St37-3U	40C	AE235C	Fe360C		NS12124	St 360 C			
										St 360 CE			
	S235J2G3	Fe360D1	E24-4	St37-3N	40D	AE235D	Fe360D		NS12124	St 360 D			
S23512	S235J2G4	Fe360D2											
											A36	260 W	SS 400
													SM 400
													A/B/C
S275JR	S275JR	Fe430B	E28-2	St44-2	43B	AE255B	Fe430B	1412-00	NS12142	St 430 B			SS 400
S275J0	S275J0	Fe430C	E28-3	St44-3U	43C	AE255C	Fe430C		NS12143	St 430 C			
										St 430 CE			
	S275J2G3	Fe430D1	E28-4	St44-3N	43D	AE255D	Fe430D	1414-00	NS12143	St 430 D			
S27512	S275J2G4	Fe430D2						1414-01					
												300 W	
S355JR	S355JR	Fe510B	E36-2		50B	AE355B	Fe510B				A572	350 W	SS 490
											Gr.50		
											A992		
											Gr.50		
S355J0	S355J0	Fe510C	E36-3	St52-3U	50C	AE355C	Fe510C	2132-01	NS12153	St 510 C			
	S355J2G3	Fe510D1		St52-3N	50D	AE355D	Fe510D		NS12153	St 510 D			
S355J2	S355J2G4	Fe510D2						2135-01					
	S355K2G3	Fe510DD1	E36-4		50DD	AE355DD							
S355K2	S355K2G4	Fe510DD2											

EN 10025-2 2004	Химически състав / Chemical composition								
	Grades	C max %	Mn max. %"	Si max. %"	P max. %"	S max. %"	N max. %"	Cu max. %"	CEV max. %
	S235JR	0,17 - 0,20	1,40		0,040	0,040	0,012	0,55	0,35 - 0,38
	S235J0	0,17	1,40		0,035	0,035	0,012	0,55	0,35 - 0,38
	S235J2	0,17	1,40		0,030	0,030	-	0,55	0,35 - 0,38
	S275JR	0,21 - 0,22	1,50		0,040	0,040	0,012	0,55	0,40 - 0,42
	S275J0	0,18	1,50		0,035	0,035	0,012	0,55	0,40 - 0,42
	S275J2	0,18	1,50		0,030	0,030	-	0,55	0,40 - 0,42
	S355JR	0,24	1,60	0,55	0,040	0,040	0,012	0,55	0,45 - 0,47
	S355J0	0,20 - 0,22	1,60	0,55	0,035	0,035	0,012	0,55	0,45 - 0,47
	S355J2	0,20 - 0,22	1,60	0,55	0,030	0,030	-	0,55	0,45 - 0,47
	S355K2	0,20 - 0,22	1,60	0,55	0,030	0,030	-	0,55	0,45 - 0,47



● СЪДЪРЖАНИЕ

● CONTENT

**Бетонни стомани и заготовки /
Concrete reinforcing steels**

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12 стр. / page 12	IPN - Европейски стандартни греди IPN - European standard beams
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**Метални конструкции /
Steel constructions**

3 стр. / page 3	Стоманени шини Flats
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17 стр. / page 17	Правоъгълни тръби Rectangular hollow sections
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7 стр. / page 7	"П" Образен профил UPN - Channels - gost standart 8240-89
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8 стр. / page 8	"П" Образен профил UPN - Channels - european section - european standart en 10025
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9 стр. / page 9	Европейски Ipe-профили за греди IPE - European flange beams
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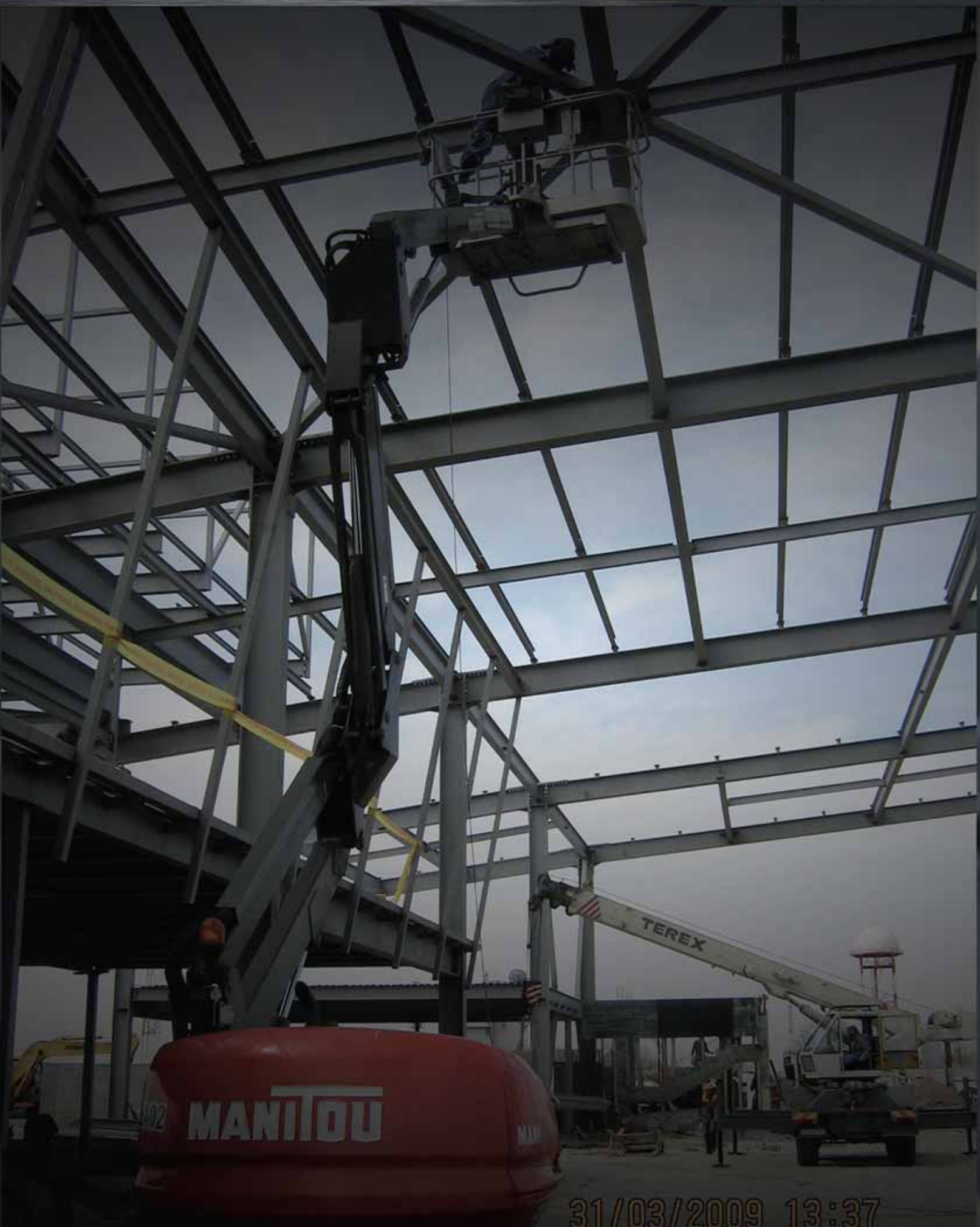
**Профилни ламарини
Profile sheets**

21 стр. / page 21	- Ламарина-студено валцована ламарина - поцинкована - Sheets and strips cold rollrd sheets and strips galvanized
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10 стр. / page 10	HEA и HEB Профили за греди HEA and HEB European beams with lightened wide flangers
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22 стр. / page 22	- Сравнителна таблица на марките стомани - Comparison tables of typical steel grades
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HMC



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