



Stock of beams

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■ First choice
■ Second choice



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L

Equal and unequal leg angles

■ First choice
■ Second choice

Stock	Designation	G kg/m	Dimensions					I cm ²	Section properties								
			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis				
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm	
4,187	L 40 x 40 x 4	2.4	40.0	40	4.0	4.0	6	3.08	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
648	L 45 x 45 x 4.5	3.1	45.0	45	4.5	4.5	7	3.90	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
13,874	L 55 x 55 x 5	4.2	55.0	55	5.0	5.0	8	5.33	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
149	L 60 x 60 x 6	5.4	60.0	60	6.0	6.0	8	6.91	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
8,880	L 65 x 65 x 5	5.0	65.0	65	5.0	5.0	9	6.34	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
492	L 70 x 70 x 5	5.4	70.0	70	5.0	5.0	9	6.84	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
4	L 70 x 70 x 7	7.4	70.0	70	7.0	7.0	9	9.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
11,820	L 75 x 75 x 5	5.8	75.0	75	5.0	5.0	9	7.34	39	7.06	1.00	2.30	38.77	7.06	1.00	2.30	
28,528	L 80 x 80 x 5	6.2	80.0	80	5.0	5.0	5	7.86	47	8.02	1.00	2.45	47.14	8.02	1.00	2.45	
16,274	L 90 x 90 x 5	7.0	90.0	90	5.0	5.0	11	8.88	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
510	L 90 x 90 x 7	9.6	90.0	90	7.0	7.0	11	12.20	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
30	L 90 x 90 x 8	10.9	90.0	90	8.0	8.0	11	13.90	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
2,600	L 100 x 100 x 7	10.8	100.0	100	7.0	7.0	7	13.70	128	17.54	1.00	3.06	128.20	17.54	1.00	3.06	
1,259	L 100 x 100 x 8	12.2	100.0	100	8.0	8.0	12	15.51	145	19.94	1.00	1.00	144.80	19.94	1.00	1.00	
18	L 100 x 100 x 10	15.1	100.0	100	10.0	10.0	12	19.20	177	24.62	1.00	1.00	176.70	24.62	1.00	1.00	

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Equal and unequal leg angles

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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	mm	cm ²
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
21,748	L 110 x 110 x 8	13.4	110.0	110	8.0	8.0	12	17.10	195	24.37	1.00	3.38	195.30	24.37	1.00	3.38
12,290	L 110 x 110 x 9	15.0	110.0	110	9.0	9.0	12	19.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2,606	L 120 x 120 x 8	14.7	120.0	120	8.0	8.0	13	18.70	255	29.11	1.00	3.69	255.40	29.11	1.00	3.69
8,885	L 120 x 120 x 9	16.5	120.0	120	9.0	9.0	13	21.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	L 120 x 120 x 11	19.9	120.0	120	11.0	11.0	13	25.37	341	39.41	1.00	3.66	340.60	39.41	1.00	3.66
1,477	L 120 x 120 x 15	26.6	120.0	120	15.0	15.0	13	33.93	445	52.43	1.00	3.62	444.90	52.43	1.00	3.62
26	L 120 x 120 x 16	28.3	120.0	120	16.0	16.0	13	36.05	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2,591	L 120 x 120 x 16	28.3	120.0	120	16.0	16.0	13	36.05	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12	L 140 x 140 x 10	21.4	140.0	140	10.0	10.0	15	27.24	504	49.43	1.00	4.30	504.40	49.43	1.00	4.30
47	L 140 x 140 x 14	29.4	140.0	140	14.0	14.0	15	37.50	1,780	254.29	301.03	5.60	645.05	92.15	144.69	3.37
206	L 150 x 150 x 10	23.0	150.0	150	10.0	10.0	16	29.27	624	56.91	1.00	4.62	624.00	56.91	1.00	4.62
6	L 150 x 150 x 11	25.2	150.0	150	11.0	11.0	16	32.04	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
123	L 150 x 150 x 12	27.3	150.0	150	12.0	12.0	16	34.83	737	67.75	1.00	4.60	736.90	67.75	1.00	4.60
714	L 150 x 150 x 12	27.3	150.0	150	12.0	12.0	16	34.83	737	67.75	1.00	4.60	736.90	67.75	1.00	4.60
65	L 150 x 150 x 13	29.5	150.0	150	13.0	13.0	16	37.58	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
539	L 150 x 150 x 14	31.6	150.0	150	14.0	14.0	16	40.31	845	78.33	1.00	4.58	845.40	78.33	1.00	4.58
6	L 150 x 150 x 14	31.6	150.0	150	14.0	14.0	16	40.31	845	78.33	1.00	4.58	845.40	78.33	1.00	4.58
147	L 150 x 150 x 15	33.8	150.0	150	15.0	15.0	16	43.02	898	83.52	1.00	4.57	898.10	83.52	1.00	4.57
472	L 150 x 150 x 15	33.8	150.0	150	15.0	15.0	16	43.02	898	83.52	1.00	4.57	898.10	83.52	1.00	4.57
730	L 150 x 150 x 16	36.0	150.0	150	16.0	16.0	16	45.80	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
73	L 150 x 150 x 16	36.0	150.0	150	16.0	16.0	16	45.80	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1,357	L 150 x 150 x 18	40.1	150.0	150	18.0	18.0	16	51.03	1,050	98.74	1.00	4.54	1,050.00	98.74	1.00	4.54

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Equal and unequal leg angles

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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	mm	cm ²
Metres									cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm
387	L 150 x 150 x 18	40.1	150.0	150	18.0	18.0	16	51.03	1,050	98.74	1.00	4.54	1,050.00	98.74	1.00	4.54
129	L 150 x 150 x 20	44.2	150.0	150	20.0	20.0	16	56.30	1,146	108.60	1.00	4.51	1,146.00	108.60	1.00	4.51
48	L 152 x 152 x 9.5	22.1	152.0	152	9.5	9.5	0	28.10	638	57.41	1.00	4.75	637.50	57.41	1.00	4.75
157	L 152 x 152 x 15.9	36.0	152.0	152	15.9	15.9	0	45.90	1,004	92.53	1.00	4.68	1,004.00	92.53	1.00	4.68
118	L 160 x 160 x 14	33.9	160.0	160	14.0	14.0	17	43.15	1,034	89.50	1.00	4.89	1,034.00	89.50	1.00	4.89
25	L 160 x 160 x 15	36.2	160.0	160	15.0	15.0	17	46.06	1,099	95.50	1.00	4.88	1,099.00	95.50	1.00	4.88
169	L 160 x 160 x 16	38.4	160.0	160	16.0	16.0	17	48.95	1,163	101.40	1.00	4.87	1,163.00	101.40	1.00	4.87
236	L 160 x 160 x 17	40.7	160.0	160	17.0	17.0	17	51.82	1,225	107.20	1.00	4.86	1,225.00	107.20	1.00	4.86
698	L 160 x 160 x 18	42.9	160.0	160	18.0	18.0	17	54.60	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	L 180 x 180 x 13	35.7	180.0	180	13.0	13.0	18	45.46	1,396	106.50	1.00	5.54	1,396.00	106.50	1.00	5.54
1,649	L 180 x 180 x 14	38.3	180.0	180	14.0	14.0	18	48.80	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
645	L 180 x 180 x 15	40.9	180.0	180	15.0	15.0	18	52.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10	L 180 x 180 x 16	43.5	180.0	180	16.0	16.0	18	55.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
5	L 180 x 180 x 20	53.7	180.0	180	20.0	20.0	18	68.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
440	L 180 x 180 x 22	58.6	180.0	180	22.0	22.0	18	74.70	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	L 200 x 200 x 14	42.7	200.0	200	14.0	14.0	18	54.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	L 200 x 200 x 15	45.6	200.0	200	15.0	15.0	18	58.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	L 200 x 200 x 17	51.4	200.0	200	17.0	17.0	18	65.50	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
165	L 200 x 200 x 18	54.2	200.0	200	18.0	18.0	18	69.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
783	L 200 x 200 x 20	59.9	200.0	200	20.0	20.0	18	76.30	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
9	L 200 x 200 x 22	65.5	200.0	200	22.0	22.0	18	83.50	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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Equal and unequal leg angles

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			H	B	Tw	Tf	R	Strong axis				Weak axis					
								ly		Wely	Wply	Iy	Iz	Welz	Wplz	Iz	
Metres	kg/m	mm	mm	mm	mm	mm	mm	cm ²	cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
12	L 200 x 200 x 23	68.4	200.0	200	23.0	23.0	18	87.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
688	L 200 x 200 x 24	71.4	200.0	200	24.0	24.0	18	91.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
132	L 200 x 200 x 24	71.4	200.0	200	24.0	24.0	18	91.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
72	L 200 x 200 x 25	73.9	200.0	200	25.0	25.0	18	94.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
655	L 200 x 200 x 26	76.6	200.0	200	26.0	26.0	18	97.60	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
523	L 200 x 200 x 28	82.0	200.0	200	28.0	28.0	18	104.50	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2,536	L 203 x 203 x 12.7	39.3	203.0	203	12.7	12.7	0	50.00	2,021	136.70	1.00	6.36	2,021.00	136.70	1.00	6.36	
149	L 203 x 203 x 14.3	44.0	203.0	203	14.3	14.3	0	56.00	2,249	152.80	1.00	6.33	2,249.00	152.80	1.00	6.33	
204	L 203 x 203 x 15.9	48.7	203.0	203	15.9	15.9	0	62.00	2,471	168.60	1.00	6.31	2,471.00	168.60	1.00	6.31	
717	L 203 x 203 x 19.0	57.8	203.0	203	19.1	19.1	0	73.60	2,900	199.40	1.00	6.27	2,900.00	199.40	1.00	6.27	
242	L 203 x 203 x 22.2	66.7	203.0	203	22.2	22.2	0	85.00	3,310	229.40	1.00	6.23	3,310.00	229.40	1.00	6.23	
198	L 203 x 203 x 25.4	76.0	203.0	203	25.4	25.4	0	96.80	3,693	258.00	1.00	6.18	3,693.00	258.00	1.00	6.18	
542	L 203 x 203 x 28.6	84.8	203.0	203	28.6	28.6	0	108.00	4,071	286.70	1.00	6.14	4,071.00	286.70	1.00	6.14	
7	L 250 x 250 x 18	67.8	250.0	250	18.0	18.0	18	86.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
80	L 250 x 250 x 24	90.3	250.0	250	24.0	24.0	18	115.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
765	L 250 x 250 x 24	90.3	250.0	250	24.0	24.0	18	115.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
20	L 250 x 250 x 25	93.4	250.0	250	25.0	25.0	18	119.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
115	L 250 x 250 x 26	97.3	250.0	250	26.0	26.0	18	124.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
13	L 250 x 250 x 30	110.7	250.0	250	30.0	30.0	18	141.00	8,087	457.00	1.00	7.57	8,087.00	457.00	1.00	7.57	
36	L x 250 x 250 x 32	117.5	250.0	250	32.0	32.0	18	149.70	8,536	484.40	7.55	1.00	8,536.00	484.40	7.55	1.00	
19	L 250 x 250 x 35	128.0	250.0	250	35.0	35.0	18	163.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
182	L 250 x 250 x 35	128.0	250.0	250	35.0	35.0	18	163.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

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			H	B	Tw	Tf	R		Strong axis				Weak axis				
									kg/m	mm	mm	mm	mm	mm	mm	cm ²	ly
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm		
22	L 254 x 254 x 19.0	73.1	254.0	254	19.0	19.0	18	93.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20	L 254 x 254 x 22.2	84.7	254.0	254	22.2	22.2	18	107.90	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
110	L 254 x 254 x 25.4	96.2	254.0	254	25.4	25.4	19	122.50	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
116	L 254 x 254 x 28.6	107.7	254.0	254	28.6	28.6	19	137.20	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
170	L 254 x 254 x 31.2	118.8	254.0	254	31.2	31.2	19	151.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
128	L 300 x 300 x 28	124.9	300.0	300	28.0	28.0	18	159.10	13,450	624.60	9.19	1.00	13,450.00	624.60	9.19	1.00	1.00
36	L 300 x 300 x 28	124.9	300.0	300	28.0	28.0	18	159.10	13,450	624.60	9.19	1.00	13,450.00	624.60	9.19	1.00	1.00
36	L 300 x 300 x 32	141.8	300.0	300	32.0	32.0	18	180.70	15,120	707.20	9.15	1.00	15,120.00	707.20	9.15	1.00	1.00
130	L 300 x 300 x 35	154.4	300.0	300	35.0	35.0	18	196.70	16,320	767.40	9.11	1.00	16,320.00	767.40	9.11	1.00	1.00
12	L 150 x 75 x 12	20.2	150.0	75	12.0	12.0	12	25.70	588	61.27	1.00	4.78	99.55	17.14	1.00	1.97	1.00
17	L 150 x 90 x 11	19.9	150.0	90	11.0	11.0	12	25.34	581	58.30	1.00	1.00	158.70	22.91	1.00	1.00	1.00
12	L 150 x 90 x 12	21.6	150.0	90	12.0	12.0	12	27.52	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
82	L 150 x 90 x 12	21.6	150.0	90	12.0	12.0	12	27.52	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
188	L 150 x 90 x 15	26.6	150.0	90	15.0	15.0	12	33.90	761	1.00	1.00	4.74	205.50	1.00	1.00	2.46	1.00
287	L 150 x 100 x 10	19.0	150.0	100	10.0	10.0	12	24.15	553	54.23	1.00	1.00	198.50	25.92	1.00	1.00	1.00
978	L 150 x 100 x 12	22.5	150.0	100	12.0	12.0	12	28.71	651	64.38	1.00	1.00	232.60	30.69	1.00	1.00	1.00
8	L 150 x 100 x 14	26.1	150.0	100	14.0	14.0	12	33.19	744	74.27	1.00	1.00	264.90	35.32	1.00	1.00	1.00
914	L 150 x 100 x 25	46.3	150.0	100	25.0	25.0	12	59.00	2,215	295.33	380.85	5.39	432.60	86.52	142.50	2.38	1.00
60	L 200 x 100 x 10	23.0	200.0	100	10.0	10.0	15	29.24	1,219	93.24	1.00	1.00	210.30	26.33	1.00	1.00	1.00
69	L 200 x 100 x 12	27.3	200.0	100	12.0	12.0	15	34.80	1,440	111.00	1.00	1.00	247.20	31.28	1.00	1.00	1.00
1,660	L 200 x 100 x 12	27.3	200.0	100	12.0	12.0	15	34.80	1,440	111.00	1.00	1.00	247.20	31.28	1.00	1.00	1.00
3	L 200 x 100 x 14	31.6	200.0	100	14.0	14.0	15	40.28	1,654	128.40	1.00	1.00	282.20	36.08	1.00	1.00	1.00

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			H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis				
									ly cm ⁴	Wely cm ³	Wply cm ³	ly cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm	
10	L 200 x 100 x 15	33.7	200.0	100	15.0	15.0	15	42.93	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	L 200 x 100 x 16	35.9	200.0	100	16.0	16.0	1	45.70	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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Large flats

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Stock	Designation	G kg/m	Dimensions						Section properties								
			H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis				
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm	
1,655	FL 350 x 12	33.0	12.0	350	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
469	FL 350 x 25	68.7	25.0	350	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	FL 350 x 30	82.4	30.0	350	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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IPE

European beams with parallel flanges

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Stock	Designation	G kg/m	Dimensions					I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
455	IPE A 80	5.0	78.0	46	3.3	4.2	5	6.38	64	16.51	18.97	3.18	6.85	2.98	4.69	1.04
2,772	IPE 80	6.0	80.0	46	3.8	5.2	5	7.64	80	20.03	23.21	3.24	8.49	3.69	5.82	1.05
1,439	IPE A 100	6.9	98.0	55	3.6	4.7	7	8.78	141	28.82	32.98	4.01	13.12	4.77	7.54	1.22
441	IPE 100	8.1	100.0	55	4.1	5.7	7	10.32	171	34.20	39.40	4.07	15.92	5.79	9.15	1.24
15	IPE A 120	8.7	117.6	64	3.8	5.1	7	11.03	257	43.78	49.87	4.83	22.39	7.00	10.98	1.42
2,281	IPE 120	10.4	120.0	64	4.4	6.3	7	13.21	318	52.97	60.72	4.90	27.67	8.65	13.58	1.45
340	IPE A 140	10.5	137.4	73	3.8	5.6	7	13.39	435	63.30	71.59	5.70	36.42	9.98	15.52	1.65
53	IPE 140	12.9	140.0	73	4.7	6.9	7	16.43	541	77.31	88.34	5.74	44.92	12.31	19.25	1.65
5,397	IPE 140	12.9	140.0	73	4.7	6.9	7	16.43	541	77.31	88.34	5.74	44.92	12.31	19.25	1.65
461	IPE A 160	12.7	157.0	82	4.0	5.9	9	16.18	689	87.81	99.09	6.53	54.43	13.28	20.70	1.83
107	IPE 160	15.8	160.0	82	5.0	7.4	9	20.09	869	108.66	123.86	6.58	68.32	16.66	26.10	1.84
1,597	IPE 160	15.8	160.0	82	5.0	7.4	9	20.09	869	108.66	123.86	6.58	68.32	16.66	26.10	1.84
998	IPE A 180	15.4	177.0	91	4.3	6.5	9	19.58	1,063	120.11	135.32	7.37	81.89	18.00	27.96	2.04
281	IPE A 180	15.4	177.0	91	4.3	6.5	9	19.58	1,063	120.11	135.32	7.37	81.89	18.00	27.96	2.04
3,979	IPE 180	18.8	180.0	91	5.3	8.0	9	23.95	1,317	146.33	166.41	7.42	100.85	22.16	34.60	2.05
24,568	IPE 180	18.8	180.0	91	5.3	8.0	9	23.95	1,317	146.33	166.41	7.42	100.85	22.16	34.60	2.05
570	IPE A 200	18.4	197.0	100	4.5	7.0	12	23.47	1,592	161.62	181.65	8.24	117.17	23.43	36.54	2.23
115	IPE A 200	18.4	197.0	100	4.5	7.0	12	23.47	1,592	161.62	181.65	8.24	117.17	23.43	36.54	2.23
3,182	IPE 200	22.4	200.0	100	5.6	8.5	12	28.48	1,943	194.30	220.64	8.26	142.37	28.47	44.61	2.24

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European beams with parallel flanges

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Stock	Designation	Dimensions							Section properties							
		G kg/m	H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
									Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
25,549	IPE 200	22.4	200.0	100	5.6	8.5	12	28.48	1,943	194.30	220.64	8.26	142.37	28.47	44.61	2.24
12	IPE O 200	25.1	202.0	102	6.2	9.5	12	31.96	2,211	218.91	249.42	8.32	168.86	33.11	51.89	2.30
1,316	IPE A 220	22.2	217.0	110	5.0	7.7	12	28.26	2,317	213.55	240.21	9.05	171.42	31.17	48.49	2.46
1,217	IPE 220	26.2	220.0	110	5.9	9.2	12	33.37	2,772	252.00	285.41	9.11	204.89	37.25	58.11	2.48
14,133	IPE 220	26.2	220.0	110	5.9	9.2	12	33.37	2,772	252.00	285.41	9.11	204.89	37.25	58.11	2.48
314	IPE O 220	29.4	222.0	112	6.6	10.2	12	37.39	3,134	282.34	321.15	9.16	239.83	42.83	66.91	2.53
9	IPE A 240	26.1	237.0	120	5.2	8.3	15	33.31	3,291	277.72	311.58	9.94	240.14	40.02	62.40	2.68
5,324	IPE 240	30.7	240.0	120	6.2	9.8	15	39.12	3,892	324.33	366.65	9.97	283.63	47.27	73.93	2.69
9,070	IPE 240	30.7	240.0	120	6.2	9.8	15	39.12	3,892	324.33	366.65	9.97	283.63	47.27	73.93	2.69
220	IPE A 270	30.7	267.0	135	5.5	8.7	15	39.15	4,917	368.31	412.50	11.21	357.97	53.03	82.35	3.02
74	IPE A 270	30.7	267.0	135	5.5	8.7	15	39.15	4,917	368.31	412.50	11.21	357.97	53.03	82.35	3.02
6,398	IPE 270	36.1	270.0	135	6.6	10.2	15	45.95	5,790	428.89	484.00	11.23	419.87	62.20	96.95	3.02
6,103	IPE 270	36.1	270.0	135	6.6	10.2	15	45.95	5,790	428.89	484.00	11.23	419.87	62.20	96.95	3.02
90	IPE O 270	42.3	274.0	136	7.5	12.2	15	53.84	6,947	507.08	574.65	11.36	513.48	75.51	117.71	3.09
442	IPE A 300	36.5	297.0	150	6.1	9.2	15	46.53	7,174	483.10	541.80	12.42	518.97	69.20	107.33	3.34
1,841	IPE 300	42.2	300.0	150	7.1	10.7	15	53.81	8,356	557.07	628.36	12.46	603.78	80.50	125.22	3.35
2,074	IPE 300	42.2	300.0	150	7.1	10.7	15	53.81	8,356	557.07	628.36	12.46	603.78	80.50	125.22	3.35
256	IPE O 300	49.3	304.0	152	8.0	12.7	15	62.83	9,994	657.50	743.83	12.61	745.72	98.12	152.59	3.44
1,151	IPE A 330	43.0	327.0	160	6.5	10.0	18	54.74	10,231	625.75	701.94	13.67	685.16	85.65	133.27	3.54
41	IPE A 330	43.0	327.0	160	6.5	10.0	18	54.74	10,231	625.75	701.94	13.67	685.16	85.65	133.27	3.54

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European beams with parallel flanges

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Stock	Designation	G kg/m	Dimensions					I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	ly cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
2,461	IPE 330	49.1	330.0	160	7.5	11.5	18	62.61	11,767	713.15	804.34	13.71	788.14	98.52	153.68	3.55
7,073	IPE 330	49.1	330.0	160	7.5	11.5	18	62.61	11,767	713.15	804.34	13.71	788.14	98.52	153.68	3.55
260	IPE O 330	57.0	334.0	162	8.5	13.5	18	72.62	13,910	832.93	942.80	13.84	960.38	118.57	185.00	3.64
10	IPE O 330	57.0	334.0	162	8.5	13.5	18	72.62	13,910	832.93	942.80	13.84	960.38	118.57	185.00	3.64
1,152	IPE A 360	50.2	357.6	170	6.6	11.5	18	63.97	14,515	811.80	906.78	15.06	944.27	111.09	171.86	3.84
3,394	IPE 360	57.1	360.0	170	8.0	12.7	18	72.73	16,266	903.67	1,019.16	14.95	1,043.45	122.76	191.10	3.79
6,795	IPE 360	57.1	360.0	170	8.0	12.7	18	72.73	16,266	903.67	1,019.16	14.95	1,043.45	122.76	191.10	3.79
462	IPE A 400	57.4	397.0	180	7.0	12.0	21	73.10	20,293	1,022.32	1,143.93	16.66	1,170.59	130.07	202.07	4.00
130	IPE A 400	57.4	397.0	180	7.0	12.0	21	73.10	20,293	1,022.32	1,143.93	16.66	1,170.59	130.07	202.07	4.00
5,778	IPE 400	66.3	400.0	180	8.6	13.5	21	84.47	23,128	1,156.40	1,307.17	16.55	1,317.82	146.42	229.01	3.95
19,148	IPE 400	66.3	400.0	180	8.6	13.5	21	84.47	23,128	1,156.40	1,307.17	16.55	1,317.82	146.42	229.01	3.95
158	IPE O 400	75.7	404.0	182	9.7	15.5	21	96.39	26,747	1,324.11	1,502.20	16.66	1,564.25	171.90	269.10	4.03
959	IPE A 450	67.2	447.0	190	7.6	13.1	21	85.55	29,759	1,331.50	1,494.32	18.65	1,502.40	158.15	245.75	4.19
166	IPE A 450	67.2	447.0	190	7.6	13.1	21	85.55	29,759	1,331.50	1,494.32	18.65	1,502.40	158.15	245.75	4.19
7,807	IPE 450	77.6	450.0	190	9.4	14.6	21	98.82	33,743	1,499.69	1,701.82	18.48	1,675.86	176.41	276.39	4.12
6,097	IPE 450	77.6	450.0	190	9.4	14.6	21	98.82	33,743	1,499.69	1,701.82	18.48	1,675.86	176.41	276.39	4.12
211	IPE O 450	92.4	456.0	192	11.0	17.6	21	117.66	40,923	1,794.87	2,046.30	18.65	2,085.37	217.23	341.00	4.21
24	IPE V 450	103.6	460.0	194	12.4	19.6	21	132.01	46,201	2,008.74	2,301.41	18.71	2,396.88	247.10	389.14	4.26
2,040	IPE A 500	79.4	497.0	200	8.4	14.5	21	101.10	42,933	1,727.69	1,946.04	20.61	1,939.22	193.92	301.63	4.38
1,154	IPE A 500	79.4	497.0	200	8.4	14.5	21	101.10	42,933	1,727.69	1,946.04	20.61	1,939.22	193.92	301.63	4.38
9,835	IPE 500	90.7	500.0	200	10.2	16.0	21	115.52	48,199	1,927.96	2,194.15	20.43	2,141.69	214.17	335.88	4.31

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Stock	Designation	Dimensions							Section properties							
		G	H	B	Tw	Tf	R	I	Strong axis			Weak axis				
									ly	Wely	Wply	ly	Iz	Welz	Wplz	Iz
Metres	kg/m	mm	mm	mm	mm	mm	mm	cm ²	cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm
7,419	IPE 500	90.7	500.0	200	10.2	16.0	21	115.52	48,199	1,927.96	2,194.15	20.43	2,141.69	214.17	335.88	4.31
548	IPE O 500	107.3	506.0	202	12.0	19.0	21	136.71	57,777	2,283.68	2,613.02	20.56	2,621.75	259.58	408.54	4.38
169	IPE 500 x 192	191.8	538.0	210	20.0	35.0	21	244.39	112,206	4,171.23	4,879.01	21.43	5,442.21	518.31	824.12	4.72
12	IPE 500 x 192	191.8	538.0	210	20.0	35.0	21	244.39	112,206	4,171.23	4,879.01	21.43	5,442.21	518.31	824.12	4.72
4,066	IPE A 550	92.1	547.0	210	9.0	15.7	24	117.29	59,979	2,193.02	2,474.71	22.61	2,432.23	231.64	361.51	4.55
1,071	IPE A 550	92.1	547.0	210	9.0	15.7	24	117.29	59,979	2,193.02	2,474.71	22.61	2,432.23	231.64	361.51	4.55
10,517	IPE 550	105.5	550.0	210	11.1	17.2	24	134.42	67,117	2,440.62	2,787.06	22.35	2,667.58	254.06	400.54	4.45
4,410	IPE 550	105.5	550.0	210	11.1	17.2	24	134.42	67,117	2,440.62	2,787.06	22.35	2,667.58	254.06	400.54	4.45
372	IPE O 550	122.5	556.0	212	12.7	20.2	24	156.08	79,157	2,847.37	3,263.43	22.52	3,224.38	304.19	480.52	4.55
48	IPE V 550	158.6	566.0	216	17.1	25.2	24	201.98	102,339	3,616.22	4,205.03	22.51	4,264.68	394.88	632.44	4.59
381	IPE A 600	107.6	597.0	220	9.8	17.5	24	137.02	82,919	2,777.86	3,141.24	24.60	3,116.28	283.30	442.07	4.77
10	IPE A 600	107.6	597.0	220	9.8	17.5	24	137.02	82,919	2,777.86	3,141.24	24.60	3,116.28	283.30	442.07	4.77
657	IPE 600	122.5	600.0	220	12.0	19.0	24	155.99	92,083	3,069.43	3,512.46	24.30	3,387.34	307.94	485.66	4.66
116	IPE 600	122.5	600.0	220	12.0	19.0	24	155.99	92,083	3,069.43	3,512.46	24.30	3,387.34	307.94	485.66	4.66
7	IPE R 600	144.4	608.0	218	14.0	23.0	24	183.91	110,306	3,628.49	4,174.99	24.49	3,992.83	366.31	580.18	4.66
455	IPE O 600	154.5	610.0	224	15.0	24.0	24	196.77	118,302	3,878.75	4,471.10	24.52	4,520.75	403.64	640.09	4.79
71	IPE 600 x 216	216.3	632.0	230	19.5	35.0	24	275.54	176,221	5,576.61	6,481.94	25.29	7,144.43	621.25	986.65	5.09
479	IPE 600 x 241	240.5	640.0	228	22.0	39.0	24	306.43	197,115	6,159.84	7,217.58	25.36	7,768.13	681.41	1,089.79	5.03
664	IPE 750 x 134	133.9	750.0	264	12.0	15.5	17	170.60	150,705	4,018.80	4,644.74	29.72	4,766.25	361.08	568.46	5.29
157	IPE 750 x 137	137.1	753.0	263	11.5	17.0	17	174.59	159,878	4,246.43	4,865.20	30.26	5,165.87	392.84	614.08	5.44
256	IPE 750 x 147	147.2	753.0	265	13.2	17.0	17	187.49	166,064	4,410.73	5,109.93	29.76	5,289.44	399.20	630.81	5.31
15	IPE 750 x 147	147.2	753.0	265	13.2	17.0	17	187.49	166,064	4,410.73	5,109.93	29.76	5,289.44	399.20	630.81	5.31

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European beams with parallel flanges

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Stock	Designation	G kg/m	Dimensions						Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	ly cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
548	IPE 750 x 173	173.7	762.0	267	14.4	21.6	17	221.33	205,825	5,402.23	6,218.31	30.50	6,873.44	514.86	809.91	5.57
10	IPE 750 x 173	173.7	762.0	267	14.4	21.6	17	221.33	205,825	5,402.23	6,218.31	30.50	6,873.44	514.86	809.91	5.57
1,532	IPE 750 x 196	196.9	770.0	268	15.6	25.4	17	250.82	240,280	6,241.04	7,174.22	30.95	8,175.02	610.08	958.80	5.71
12	IPE 750 x 196	196.9	770.0	268	15.6	25.4	17	250.82	240,280	6,241.04	7,174.22	30.95	8,175.02	610.08	958.80	5.71

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IPN

European beams with unparallel flanges

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■ Second choice

Stock	Designation	Dimensions							Section properties							
		G kg/m	H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
									Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
12,483	IPN 80	6.0	80.0	42	3.9	5.9	4	7.58	78	19.50	22.80	3.20	6.29	3.00	5.00	0.91
717	IPN 100	8.5	100.0	50	4.5	6.8	5	10.86	175	35.04	40.81	4.02	14.25	5.70	8.99	1.15
11	IPN 120	11.1	120.0	58	5.1	7.7	5	14.20	328	54.70	63.60	4.81	21.50	7.41	12.40	1.23
1,460	IPN 120	11.1	120.0	58	5.1	7.7	5	14.20	328	54.70	63.60	4.81	21.50	7.41	12.40	1.23
2,407	IPN 140	14.4	140.0	66	5.7	8.6	6	18.30	573	81.90	95.40	5.61	35.20	10.70	17.90	1.40
16	IPN 160	17.9	160.0	74	6.3	9.5	6	22.80	935	117.00	136.00	6.40	54.70	14.80	24.90	1.55
3,386	IPN 160	17.9	160.0	74	6.3	9.5	6	22.80	935	117.00	136.00	6.40	54.70	14.80	24.90	1.55
546	IPN 180	21.9	180.0	82	6.9	10.4	7	27.90	1,450	161.00	187.00	7.20	81.30	19.80	33.20	1.71
354	IPN 200	26.2	200.0	90	7.5	11.3	8	33.40	2,140	214.00	250.00	8.00	117.00	26.00	43.50	1.87
902	IPN 200	26.2	200.0	90	7.5	11.3	8	33.40	2,140	214.00	250.00	8.00	117.00	26.00	43.50	1.87
1,177	IPN 220	31.0	220.0	98	8.1	12.2	8	39.50	3,060	278.00	324.00	8.80	162.00	33.10	55.70	2.02
20	IPN 240	36.2	240.0	106	8.7	13.1	9	46.10	4,250	354.00	412.00	9.59	221.00	41.70	70.00	2.20
6	IPN 240	36.2	240.0	106	8.7	13.1	9	46.10	4,250	354.00	412.00	9.59	221.00	41.70	70.00	2.20
18	IPN 260	41.8	260.0	113	9.4	14.1	9	53.30	5,740	442.00	514.00	10.40	288.00	51.00	85.90	2.32
32	IPN 280	47.9	280.0	119	10.1	15.2	10	61.00	7,590	542.00	632.00	11.10	364.00	61.20	103.00	2.45

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Stock	Designation	G kg/m	Dimensions					I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
35	IPN 300	54.2	300.0	125	10.8	16.2	11	69.00	9,800	653.00	762.00	11.90	451.00	72.20	121.00	2.56
1,003	IPN 320	61.0	320.0	131	11.5	17.3	12	77.70	12,510	782.00	914.00	12.70	555.00	84.70	143.00	2.67
15	IPN 340	68.1	340.0	137	12.2	18.3	12	86.70	15,700	923.00	1,080.00	13.50	674.00	98.40	166.00	2.80
33	IPN 400	92.6	400.0	155	14.4	21.6	14	118.00	29,210	1,460.00	1,714.00	15.70	1,160.00	149.00	253.00	3.13
6	IPN 450	115.4	450.0	170	16.2	24.3	16	147.00	45,850	2,040.00	2,400.00	17.70	1,730.00	203.00	345.00	3.43
30	IPN 450	115.4	450.0	170	16.2	24.3	16	147.00	45,850	2,040.00	2,400.00	17.70	1,730.00	203.00	345.00	3.43
22	IPN 600	199.4	600.0	215	21.6	32.4	22	254.00	138,800	4,627.00	5,452.00	23.39	4,674.00	435.00	752.00	4.29

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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									ly	Wely	Wply	Iy	Iz	Welz	Wplz	Iz
Metres	kg/m	mm	mm	mm	mm	mm	cm ²	cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
471	HE 100 AA	12.2	91.0	100	4.2	5.5	12	15.60	237	51.98	58.35	3.89	92.06	18.41	28.44	2.43
3,849	HE 100 A	16.7	96.0	100	5.0	8.0	12	21.24	349	72.75	83.01	4.05	133.81	26.76	41.14	2.51
6,845	HE 100 A	16.7	96.0	100	5.0	8.0	12	21.24	349	72.75	83.01	4.05	133.81	26.76	41.14	2.51
2,351	HE 100 B	20.4	100.0	100	6.0	10.0	12	26.04	450	89.90	104.21	4.15	167.27	33.45	51.42	2.53
6,600	HE 100 B	20.4	100.0	100	6.0	10.0	12	26.04	450	89.90	104.21	4.15	167.27	33.45	51.42	2.53
12,137	HE 100 M	41.8	120.0	106	12.0	20.0	12	53.24	1,143	190.50	235.81	4.63	399.15	75.31	116.31	2.74
884	HE 100 M	41.8	120.0	106	12.0	20.0	12	53.24	1,143	190.50	235.81	4.63	399.15	75.31	116.31	2.74
350	HE 120 AA	14.6	109.0	120	4.2	5.5	12	18.55	413	75.85	84.12	4.72	158.81	26.47	40.62	2.93
7,475	HE 120 A	19.9	114.0	120	5.0	8.0	12	25.34	606	106.35	119.49	4.89	230.90	38.48	58.85	3.02
18,113	HE 120 A	19.9	114.0	120	5.0	8.0	12	25.34	606	106.35	119.49	4.89	230.90	38.48	58.85	3.02
12,507	HE 120 B	26.7	120.0	120	6.5	11.0	12	34.01	864	144.07	165.21	5.04	317.52	52.92	80.97	3.06
16,353	HE 120 B	26.7	120.0	120	6.5	11.0	12	34.01	864	144.07	165.21	5.04	317.52	52.92	80.97	3.06
2,164	HE 120 M	52.1	140.0	126	12.5	21.0	12	66.41	2,018	288.29	350.61	5.51	702.78	111.55	171.63	3.25
211	HE 120 M	52.1	140.0	126	12.5	21.0	12	66.41	2,018	288.29	350.61	5.51	702.78	111.55	171.63	3.25
194	HE 140 AA	18.1	128.0	140	4.3	6.0	12	23.02	720	112.42	123.78	5.59	274.83	39.26	59.93	3.46
105	HE 140 AA	18.1	128.0	140	4.3	6.0	12	23.02	720	112.42	123.78	5.59	274.83	39.26	59.93	3.46
7,318	HE 140 A	24.7	133.0	140	5.5	8.5	12	31.42	1,033	155.34	173.49	5.73	389.32	55.62	84.85	3.52
7,152	HE 140 A	24.7	133.0	140	5.5	8.5	12	31.42	1,033	155.34	173.49	5.73	389.32	55.62	84.85	3.52
2,296	HE 140 B	33.7	140.0	140	7.0	12.0	12	42.96	1,509	215.57	245.42	5.93	549.67	78.52	119.79	3.58
844	HE 140 B	33.7	140.0	140	7.0	12.0	12	42.96	1,509	215.57	245.42	5.93	549.67	78.52	119.79	3.58
7,043	HE 140 M	63.2	160.0	146	13.0	22.0	12	80.56	3,291	411.38	493.82	6.39	1,144.35	156.76	240.51	3.77
1,551	HE 140 M	63.2	160.0	146	13.0	22.0	12	80.56	3,291	411.38	493.82	6.39	1,144.35	156.76	240.51	3.77

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Stock	Designation	G kg/m	Dimensions						I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm	Strong axis				Weak axis					
								ly cm ⁴		Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm	
2,606	HE 160 AA	23.8	148.0	160	4.5	7.0	15	30.36	1,283	173.38	190.41	6.50	478.73	59.84	91.36	3.97	
337	HE 160 AA	23.8	148.0	160	4.5	7.0	15	30.36	1,283	173.38	190.41	6.50	478.73	59.84	91.36	3.97	
5,261	HE 160 A	30.4	152.0	160	6.0	9.0	15	38.77	1,673	220.13	245.15	6.57	615.57	76.95	117.63	3.98	
22,620	HE 160 A	30.4	152.0	160	6.0	9.0	15	38.77	1,673	220.13	245.15	6.57	615.57	76.95	117.63	3.98	
5,375	HE 160 B	42.6	160.0	160	8.0	13.0	15	54.25	2,492	311.50	353.97	6.78	889.24	111.16	169.97	4.05	
7,955	HE 160 B	42.6	160.0	160	8.0	13.0	15	54.25	2,492	311.50	353.97	6.78	889.24	111.16	169.97	4.05	
7,243	HE 160 M	76.2	180.0	166	14.0	23.0	15	97.05	5,098	566.44	674.57	7.25	1,758.77	211.90	325.46	4.26	
2,409	HE 160 M	76.2	180.0	166	14.0	23.0	15	97.05	5,098	566.44	674.57	7.25	1,758.77	211.90	325.46	4.26	
108	HE 180 AA	28.7	167.0	180	5.0	7.5	15	36.53	1,967	235.57	258.24	7.34	729.97	81.11	123.58	4.47	
5,306	HE 180 A	35.5	171.0	180	6.0	9.5	15	45.25	2,510	293.57	324.85	7.45	924.61	102.73	156.50	4.52	
1,363	HE 180 A	35.5	171.0	180	6.0	9.5	15	45.25	2,510	293.57	324.85	7.45	924.61	102.73	156.50	4.52	
1,774	HE 180 B	51.2	180.0	180	8.5	14.0	15	65.25	3,831	425.67	481.45	7.66	1,362.85	151.43	231.02	4.57	
8,215	HE 180 B	51.2	180.0	180	8.5	14.0	15	65.25	3,831	425.67	481.45	7.66	1,362.85	151.43	231.02	4.57	
8,261	HE 180 M	88.9	200.0	186	14.5	24.0	15	113.25	7,483	748.30	883.45	8.13	2,580.13	277.43	425.19	4.77	
2,241	HE 180 M	88.9	200.0	186	14.5	24.0	15	113.25	7,483	748.30	883.45	8.13	2,580.13	277.43	425.19	4.77	
10	HE 200 AA	34.6	186.0	200	5.5	8.0	18	44.13	2,944	316.56	347.06	8.17	1,068.49	106.85	163.17	4.92	
5,116	HE 200 A	42.3	190.0	200	6.5	10.0	18	53.83	3,692	388.63	429.49	8.28	1,335.51	133.55	203.82	4.98	
2,844	HE 200 A	42.3	190.0	200	6.5	10.0	18	53.83	3,692	388.63	429.49	8.28	1,335.51	133.55	203.82	4.98	
4,268	HE 200 B	61.3	200.0	200	9.0	15.0	18	78.08	5,696	569.60	642.55	8.54	2,003.37	200.34	305.82	5.07	
6,251	HE 200 B	61.3	200.0	200	9.0	15.0	18	78.08	5,696	569.60	642.55	8.54	2,003.37	200.34	305.82	5.07	
5,393	HE 200 M	103.1	220.0	206	15.0	25.0	18	131.28	10,642	967.45	1,135.15	9.00	3,651.21	354.49	543.22	5.27	
1,420	HE 200 M	103.1	220.0	206	15.0	25.0	18	131.28	10,642	967.45	1,135.15	9.00	3,651.21	354.49	543.22	5.27	

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Stock	Designation	G	Dimensions						I	Section properties							
			H	B	Tw	Tf	R	Strong axis				Weak axis					
								ly		Wely	Wply	Iy	Iz	Welz	Wplz	Iz	
Metres	kg/m	mm	mm	mm	mm	mm	mm	cm ²	cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
597	HE 220 AA	40.4	205.0	220	6.0	8.5	18	51.46	4,170	406.83	445.50	9.00	1,510.49	137.32	209.35	5.42	
578	HE 220 AA	40.4	205.0	220	6.0	8.5	18	51.46	4,170	406.83	445.50	9.00	1,510.49	137.32	209.35	5.42	
1,573	HE 220 A	50.5	210.0	220	7.0	11.0	18	64.34	5,410	515.24	568.46	9.17	1,954.56	177.69	270.60	5.51	
897	HE 220 A	50.5	210.0	220	7.0	11.0	18	64.34	5,410	515.24	568.46	9.17	1,954.56	177.69	270.60	5.51	
5,289	HE 220 B	71.5	220.0	220	9.5	16.0	18	91.04	8,091	735.55	827.05	9.43	2,843.27	258.48	393.88	5.59	
11,233	HE 220 B	71.5	220.0	220	9.5	16.0	18	91.04	8,091	735.55	827.05	9.43	2,843.27	258.48	393.88	5.59	
4,290	HE 220 M	117.3	240.0	226	15.5	26.0	18	149.44	14,605	1,217.08	1,419.45	9.89	5,012.05	443.54	678.56	5.79	
2,349	HE 220 M	117.3	240.0	226	15.5	26.0	18	149.44	14,605	1,217.08	1,419.45	9.89	5,012.05	443.54	678.56	5.79	
454	HE 240 AA	47.4	224.0	240	6.5	9.0	21	60.38	5,835	520.98	570.58	9.83	2,077.04	173.09	264.39	5.87	
223	HE 240 AA	47.4	224.0	240	6.5	9.0	21	60.38	5,835	520.98	570.58	9.83	2,077.04	173.09	264.39	5.87	
1,120	HE 240 A	60.3	230.0	240	7.5	12.0	21	76.84	7,763	675.04	744.63	10.05	2,768.81	230.73	351.70	6.00	
1,098	HE 240 A	60.3	230.0	240	7.5	12.0	21	76.84	7,763	675.04	744.63	10.05	2,768.81	230.73	351.70	6.00	
2,452	HE 240 B	83.2	240.0	240	10.0	17.0	21	105.99	11,259	938.25	1,053.16	10.31	3,922.66	326.89	498.42	6.08	
1,254	HE 240 B	83.2	240.0	240	10.0	17.0	21	105.99	11,259	938.25	1,053.16	10.31	3,922.66	326.89	498.42	6.08	
388	HE 240 M	156.7	270.0	248	18.0	32.0	21	199.59	24,290	1,799.26	2,116.96	11.03	8,152.62	657.47	1,005.94	6.39	
3,705	HE 240 M	156.7	270.0	248	18.0	32.0	21	199.59	24,290	1,799.26	2,116.96	11.03	8,152.62	657.47	1,005.94	6.39	
271	HE 260 AA	54.1	244.0	260	6.5	9.5	24	68.97	7,981	654.18	714.47	10.76	2,788.05	214.47	327.74	6.36	
1,643	HE 260 AA	54.1	244.0	260	6.5	9.5	24	68.97	7,981	654.18	714.47	10.76	2,788.05	214.47	327.74	6.36	
5,165	HE 260 A	68.2	250.0	260	7.5	12.5	24	86.82	10,455	836.40	919.79	10.97	3,667.56	282.12	430.18	6.50	
2,420	HE 260 A	68.2	250.0	260	7.5	12.5	24	86.82	10,455	836.40	919.79	10.97	3,667.56	282.12	430.18	6.50	
4,929	HE 260 B	93.0	260.0	260	10.0	17.5	24	118.45	14,919	1,147.62	1,282.93	11.22	5,134.51	394.96	602.26	6.58	
7,243	HE 260 B	93.0	260.0	260	10.0	17.5	24	118.45	14,919	1,147.62	1,282.93	11.22	5,134.51	394.96	602.26	6.58	
103	HE 260 M	172.4	290.0	268	18.0	32.5	24	219.65	31,307	2,159.10	2,523.63	11.94	10,448.58	779.74	1,192.47	6.90	

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			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
1,695	HE 260 M	172.4	290.0	268	18.0	32.5	24	219.65	31,307	2,159.10	2,523.63	11.94	10,448.58	779.74	1,192.47	6.90
145	HE 280 AA	61.3	264.0	280	7.0	10.0	24	78.03	10,558	799.85	873.08	11.63	3,664.24	261.73	399.38	6.85
43	HE 280 AA	61.3	264.0	280	7.0	10.0	24	78.03	10,558	799.85	873.08	11.63	3,664.24	261.73	399.38	6.85
5,834	HE 280 A	76.4	270.0	280	8.0	13.0	24	97.27	13,673	1,012.81	1,112.24	11.86	4,762.64	340.19	518.14	7.00
16,540	HE 280 A	76.4	270.0	280	8.0	13.0	24	97.27	13,673	1,012.81	1,112.24	11.86	4,762.64	340.19	518.14	7.00
2,249	HE 280 B	103.1	280.0	280	10.5	18.0	24	131.37	19,270	1,376.43	1,534.45	12.11	6,594.52	471.04	717.58	7.09
2,484	HE 280 B	103.1	280.0	280	10.5	18.0	24	131.37	19,270	1,376.43	1,534.45	12.11	6,594.52	471.04	717.58	7.09
37	HE 280 M	188.5	310.0	288	18.5	33.0	24	240.17	39,547	2,551.42	2,965.65	12.83	13,162.76	914.08	1,396.69	7.40
347	HE 280 M	188.5	310.0	288	18.5	33.0	24	240.17	39,547	2,551.42	2,965.65	12.83	13,162.76	914.08	1,396.69	7.40
813	HE 300 AA	69.8	283.0	300	7.5	10.5	27	88.91	13,804	975.55	1,065.31	12.46	4,733.51	315.57	482.31	7.30
110	HE 300 AA	69.8	283.0	300	7.5	10.5	27	88.91	13,804	975.55	1,065.31	12.46	4,733.51	315.57	482.31	7.30
1,682	HE 300 A	88.3	290.0	300	8.5	14.0	27	112.53	18,264	1,259.59	1,383.30	12.74	6,309.55	420.64	641.18	7.49
1,497	HE 300 A	88.3	290.0	300	8.5	14.0	27	112.53	18,264	1,259.59	1,383.30	12.74	6,309.55	420.64	641.18	7.49
1,622	HE 300 B	117.0	300.0	300	11.0	19.0	27	149.08	25,166	1,677.73	1,868.70	12.99	8,562.82	570.85	870.15	7.58
1,986	HE 300 B	117.0	300.0	300	11.0	19.0	27	149.08	25,166	1,677.73	1,868.70	12.99	8,562.82	570.85	870.15	7.58
7	HE 300 C	176.7	320.0	305	16.0	29.0	27	225.08	40,951	2,559.44	2,926.70	13.49	13,736.30	900.74	1,374.42	7.81
20	HE 300 M	237.9	340.0	310	21.0	39.0	27	303.08	59,201	3,482.41	4,077.70	13.98	19,403.07	1,251.81	1,913.19	8.00
94	HE 300 M	237.9	340.0	310	21.0	39.0	27	303.08	59,201	3,482.41	4,077.70	13.98	19,403.07	1,251.81	1,913.19	8.00
767	HE 320 AA	74.2	301.0	300	8.0	11.0	27	94.58	16,447	1,092.82	1,196.23	13.19	4,959.08	330.61	505.75	7.24
271	HE 320 A	97.6	310.0	300	9.0	15.5	27	124.37	22,929	1,479.29	1,628.12	13.58	6,985.23	465.68	709.75	7.49
447	HE 320 A	97.6	310.0	300	9.0	15.5	27	124.37	22,929	1,479.29	1,628.12	13.58	6,985.23	465.68	709.75	7.49
78	HE 320 B	126.7	320.0	300	11.5	20.5	27	161.35	30,824	1,926.50	2,149.27	13.82	9,238.82	615.92	939.11	7.57

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			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
46	HE 320 B	126.7	320.0	300	11.5	20.5	27	161.35	30,824	1,926.50	2,149.27	13.82	9,238.82	615.92	939.11	7.57
228	HE 320 M	245.0	359.0	309	21.0	40.0	27	312.05	68,135	3,795.82	4,435.06	14.78	19,709.32	1,275.68	1,950.74	7.95
63	HE 320 M	245.0	359.0	309	21.0	40.0	27	312.05	68,135	3,795.82	4,435.06	14.78	19,709.32	1,275.68	1,950.74	7.95
417	HE 340 AA	78.9	320.0	300	8.5	11.5	27	100.51	19,552	1,222.00	1,340.96	13.95	5,184.73	345.65	529.31	7.18
693	HE 340 A	104.8	330.0	300	9.5	16.5	27	133.48	27,693	1,678.36	1,850.51	14.40	7,435.99	495.73	755.96	7.46
580	HE 340 A	104.8	330.0	300	9.5	16.5	27	133.48	27,693	1,678.36	1,850.51	14.40	7,435.99	495.73	755.96	7.46
5	HE 340 B	134.2	340.0	300	12.0	21.5	27	170.90	36,656	2,156.24	2,408.14	14.65	9,689.93	646.00	985.73	7.53
111	HE 340 B	134.2	340.0	300	12.0	21.5	27	170.90	36,656	2,156.24	2,408.14	14.65	9,689.93	646.00	985.73	7.53
335	HE 340 M	247.9	377.0	309	21.0	40.0	27	315.83	76,372	4,051.56	4,717.60	15.55	19,710.71	1,275.77	1,952.72	7.90
136	HE 340 M	247.9	377.0	309	21.0	40.0	27	315.83	76,372	4,051.56	4,717.60	15.55	19,710.71	1,275.77	1,952.72	7.90
1,877	HE 360 AA	83.7	339.0	300	9.0	12.0	27	106.61	23,037	1,359.12	1,495.28	14.70	5,410.45	360.70	552.98	7.12
341	HE 360 A	112.1	350.0	300	10.0	17.5	27	142.76	33,090	1,890.86	2,088.51	15.22	7,886.84	525.79	802.29	7.43
395	HE 360 A	112.1	350.0	300	10.0	17.5	27	142.76	33,090	1,890.86	2,088.51	15.22	7,886.84	525.79	802.29	7.43
130	HE 360 B	141.8	360.0	300	12.5	22.5	27	180.64	43,193	2,399.61	2,683.03	15.46	10,141.16	676.08	1,032.50	7.49
29	HE 360 B	141.8	360.0	300	12.5	22.5	27	180.64	43,193	2,399.61	2,683.03	15.46	10,141.16	676.08	1,032.50	7.49
202	HE 360 M	250.3	395.0	308	21.0	40.0	27	318.81	84,867	4,297.06	4,989.35	16.32	19,521.75	1,267.65	1,942.37	7.83
134	HE 360 M	250.3	395.0	308	21.0	40.0	27	318.81	84,867	4,297.06	4,989.35	16.32	19,521.75	1,267.65	1,942.37	7.83
559	HE 400 AA	92.4	378.0	300	9.5	13.0	27	117.70	31,252	1,653.54	1,824.18	16.29	5,861.39	390.76	599.70	7.06
708	HE 400 A	124.8	390.0	300	11.0	19.0	27	158.98	45,069	2,311.23	2,561.84	16.84	8,563.82	570.92	872.87	7.34
640	HE 400 A	124.8	390.0	300	11.0	19.0	27	158.98	45,069	2,311.23	2,561.84	16.84	8,563.82	570.92	872.87	7.34
82	HE 400 B	155.3	400.0	300	13.5	24.0	27	197.78	57,681	2,884.05	3,231.78	17.08	10,819.04	721.27	1,104.05	7.40
56	HE 400 B	155.3	400.0	300	13.5	24.0	27	197.78	57,681	2,884.05	3,231.78	17.08	10,819.04	721.27	1,104.05	7.40

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Stock	Designation	Dimensions							Section properties							
		G	H	B	Tw	Tf	R	I	Strong axis			Weak axis				
									ly	Wely	Wply	ly	Iz	Welz	Wplz	Iz
Metres	kg/m	mm	mm	mm	mm	mm	mm	cm2	cm4	cm3	cm3	cm	cm4	cm3	cm3	cm
69	HE 400 M	255.7	432.0	307	21.0	40.0	27	325.78	104,119	4,820.32	5,570.66	17.88	19,335.49	1,259.64	1,934.14	7.70
75	HE 400 M	255.7	432.0	307	21.0	40.0	27	325.78	104,119	4,820.32	5,570.66	17.88	19,335.49	1,259.64	1,934.14	7.70
762	HE 450 AA	99.7	425.0	300	10.0	13.5	27	127.06	41,888	1,971.20	2,183.39	18.16	6,087.53	405.84	624.36	6.92
198	HE 450 A	139.8	440.0	300	11.5	21.0	27	178.03	63,722	2,896.45	3,215.92	18.92	9,465.33	631.02	965.54	7.29
1,715	HE 450 A	139.8	440.0	300	11.5	21.0	27	178.03	63,722	2,896.45	3,215.92	18.92	9,465.33	631.02	965.54	7.29
32	HE 450 B	171.1	450.0	300	14.0	26.0	27	217.98	79,888	3,550.58	3,982.42	19.14	11,721.33	781.42	1,197.67	7.33
58	HE 450 B	171.1	450.0	300	14.0	26.0	27	217.98	79,888	3,550.58	3,982.42	19.14	11,721.33	781.42	1,197.67	7.33
126	HE 450 M	263.3	478.0	307	21.0	40.0	27	335.44	131,484	5,501.42	6,331.07	19.80	19,339.04	1,259.87	1,939.22	7.59
161	HE 450 M	263.3	478.0	307	21.0	40.0	27	335.44	131,484	5,501.42	6,331.07	19.80	19,339.04	1,259.87	1,939.22	7.59
8	HE 500 AA	107.5	472.0	300	10.5	14.0	27	136.88	54,643	2,315.38	2,576.29	19.98	6,313.84	420.92	649.31	6.79
254	HE 500 A	155.1	490.0	300	12.0	23.0	27	197.54	86,975	3,550.00	3,948.91	20.98	10,367.05	691.14	1,058.52	7.24
893	HE 500 A	155.1	490.0	300	12.0	23.0	27	197.54	86,975	3,550.00	3,948.91	20.98	10,367.05	691.14	1,058.52	7.24
28	HE 500 B	187.3	500.0	300	14.5	28.0	27	238.64	107,176	4,287.04	4,814.62	21.19	12,623.92	841.59	1,291.66	7.27
323	HE 500 B	187.3	500.0	300	14.5	28.0	27	238.64	107,176	4,287.04	4,814.62	21.19	12,623.92	841.59	1,291.66	7.27
18	HE 500 M	270.3	524.0	306	21.0	40.0	27	344.30	161,929	6,180.50	7,094.33	21.69	19,154.71	1,251.94	1,932.03	7.46
69	HE 500 M	270.3	524.0	306	21.0	40.0	27	344.30	161,929	6,180.50	7,094.33	21.69	19,154.71	1,251.94	1,932.03	7.46
298	HE 550 AA	120.0	522.0	300	11.5	15.0	27	152.84	72,871	2,791.99	3,127.67	21.84	6,766.52	451.10	698.65	6.65
643	HE 550 A	166.2	540.0	300	12.5	24.0	27	211.76	111,932	4,145.63	4,621.88	22.99	10,819.04	721.27	1,106.91	7.15
1,104	HE 550 A	166.2	540.0	300	12.5	24.0	27	211.76	111,932	4,145.63	4,621.88	22.99	10,819.04	721.27	1,106.91	7.15
810	HE 550 B	199.4	550.0	300	15.0	29.0	27	254.06	136,691	4,970.58	5,590.67	23.20	13,076.89	871.79	1,341.15	7.17
664	HE 550 B	199.4	550.0	300	15.0	29.0	27	254.06	136,691	4,970.58	5,590.67	23.20	13,076.89	871.79	1,341.15	7.17
710	HE 550 M	278.2	572.0	306	21.0	40.0	27	354.38	197,984	6,922.52	7,932.75	23.64	19,158.41	1,252.18	1,937.32	7.35

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Stock	Designation	Dimensions							Section properties							
		G kg/m	H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
									Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
116	HE 550 M	278.2	572.0	306	21.0	40.0	27	354.38	197,984	6,922.52	7,932.75	23.64	19,158.41	1,252.18	1,937.32	7.35
752	HE 600 AA	128.8	571.0	300	12.0	15.5	27	164.06	91,872	3,217.93	3,623.13	23.66	6,993.43	466.23	724.48	6.53
449	HE 600 x 136	136.4	568.0	380	12.0	13.5	27	173.78	99,094	3,489.23	3,888.20	23.88	12,364.65	650.77	1,001.72	8.44
197	HE 600 A	177.8	590.0	300	13.0	25.0	27	226.46	141,208	4,786.71	5,350.46	24.97	11,271.31	751.42	1,155.67	7.05
2,047	HE 600 A	177.8	590.0	300	13.0	25.0	27	226.46	141,208	4,786.71	5,350.46	24.97	11,271.31	751.42	1,155.67	7.05
711	HE 600 x 151	150.5	572.0	360	13.0	16.0	27	191.66	110,476	3,862.80	4,315.52	24.01	12,462.91	692.38	1,067.47	8.06
21	HE 600 x 158	154.2	574.0	360	17.0	13.5	27	196.45	104,020	3,624.39	4,163.12	23.01	10,534.81	585.27	923.43	7.32
63	HE 600 x 195	195.2	586.0	304	19.0	23.0	27	248.70	140,168	4,783.89	5,486.85	23.74	10,817.10	711.65	1,121.25	6.59
111	HE 600 B	211.9	600.0	300	15.5	30.0	27	269.96	171,041	5,701.37	6,425.21	25.17	13,530.24	902.02	1,391.07	7.08
265	HE 600 B	211.9	600.0	300	15.5	30.0	27	269.96	171,041	5,701.37	6,425.21	25.17	13,530.24	902.02	1,391.07	7.08
798	HE 600 M	285.5	620.0	305	21.0	40.0	27	363.66	237,448	7,659.61	8,772.16	25.55	18,975.46	1,244.29	1,930.39	7.22
407	HE 600 M	285.5	620.0	305	21.0	40.0	27	363.66	237,448	7,659.61	8,772.16	25.55	18,975.46	1,244.29	1,930.39	7.22
5	HE 600 x 337	336.9	632.0	310	25.5	46.0	27	429.16	283,167	8,960.98	10,380.57	25.69	22,938.06	1,479.87	2,309.85	7.31
108	HE 600 x 399	399.1	648.0	315	30.0	54.0	27	508.46	344,642	10,637.10	12,456.20	26.03	28,281.07	1,795.62	2,813.75	7.46
626	HE 650 AA	138.0	620.0	300	12.5	16.0	27	175.76	113,944	3,675.61	4,159.93	25.46	7,220.61	481.37	750.66	6.41
312	HE 650 A	189.7	640.0	300	13.5	26.0	27	241.64	175,178	5,474.31	6,136.37	26.92	11,723.88	781.59	1,204.80	6.97
85	HE 650 A	189.7	640.0	300	13.5	26.0	27	241.64	175,178	5,474.31	6,136.37	26.92	11,723.88	781.59	1,204.80	6.97
1,340	HE 650 B	224.8	650.0	300	16.0	31.0	27	286.34	210,616	6,480.49	7,319.96	27.12	13,983.99	932.27	1,441.42	6.99
480	HE 650 B	224.8	650.0	300	16.0	31.0	27	286.34	210,616	6,480.49	7,319.96	27.12	13,983.99	932.27	1,441.42	6.99
1,480	HE 650 M	293.4	668.0	305	21.0	40.0	27	373.74	281,668	8,433.17	9,657.04	27.45	18,979.16	1,244.54	1,935.68	7.13
34	HE 650 x 343	343.5	680.0	309	25.0	46.0	27	437.54	333,716	9,815.18	11,352.86	27.62	22,719.10	1,470.49	2,299.55	7.21
725	HE 700 AA	149.9	670.0	300	13.0	17.0	27	190.94	142,721	4,260.33	4,840.22	27.34	7,673.07	511.54	799.72	6.34

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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	mm	cm ²
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
659	HE 700 A	204.5	690.0	300	14.5	27.0	27	260.48	215,301	6,240.61	7,031.91	28.75	12,178.79	811.92	1,256.75	6.84
66	HE 700 A	204.5	690.0	300	14.5	27.0	27	260.48	215,301	6,240.61	7,031.91	28.75	12,178.79	811.92	1,256.75	6.84
721	HE 700 B	240.5	700.0	300	17.0	32.0	27	306.38	256,888	7,339.66	8,327.22	28.96	14,440.85	962.72	1,495.06	6.87
916	HE 700 B	240.5	700.0	300	17.0	32.0	27	306.38	256,888	7,339.66	8,327.22	28.96	14,440.85	962.72	1,495.06	6.87
1,596	HE 700 M	300.7	716.0	304	21.0	40.0	27	383.02	329,278	9,197.71	10,539.07	29.32	18,797.43	1,236.67	1,928.80	7.01
16	HE 700 M	300.7	716.0	304	21.0	40.0	27	383.02	329,278	9,197.71	10,539.07	29.32	18,797.43	1,236.67	1,928.80	7.01
88	HE 700 x 352	352.2	728.0	308	25.0	46.0	27	448.62	389,681	10,705.52	12,385.99	29.47	22,506.45	1,461.46	2,292.86	7.08
47	HE 700 x 418	417.6	744.0	313	29.5	54.0	27	531.92	472,508	12,701.83	14,840.85	29.80	27,762.56	1,773.97	2,796.55	7.22
341	HE 800 AA	171.5	770.0	300	14.0	18.0	30	218.49	208,882	5,425.51	6,224.93	30.92	8,133.72	542.25	856.57	6.10
1,305	HE 800 A	224.4	790.0	300	15.0	28.0	30	285.83	303,443	7,682.10	8,699.62	32.58	12,638.66	842.58	1,312.27	6.65
12	HE 800 A	224.4	790.0	300	15.0	28.0	30	285.83	303,443	7,682.10	8,699.62	32.58	12,638.66	842.58	1,312.27	6.65
279	HE 800 B	262.3	800.0	300	17.5	33.0	30	334.18	359,084	8,977.10	10,228.84	32.78	14,903.66	993.58	1,553.15	6.68
171	HE 800 B	262.3	800.0	300	17.5	33.0	30	334.18	359,084	8,977.10	10,228.84	32.78	14,903.66	993.58	1,553.15	6.68
1,049	HE 800 M	317.4	814.0	303	21.0	40.0	30	404.27	442,598	10,874.64	12,487.83	33.09	18,627.36	1,229.53	1,930.41	6.79
85	HE 800 x 373	372.6	826.0	308	25.0	46.0	30	474.59	523,906	12,685.38	14,696.75	33.23	22,527.04	1,462.79	2,311.41	6.89
31	HE 800 x 444	444.3	842.0	313	30.0	54.0	30	565.97	634,474	15,070.64	17,637.93	33.48	27,801.84	1,776.48	2,827.10	7.01
866	HE 900 AA	198.0	870.0	300	15.0	20.0	30	252.23	301,145	6,922.87	7,998.96	34.55	9,041.36	602.76	957.67	5.99
3,759	HE 900 A	251.6	890.0	300	16.0	30.0	30	320.53	422,075	9,484.83	10,811.18	36.29	13,547.46	903.16	1,414.49	6.50
1,445	HE 900 B	291.5	900.0	300	18.5	35.0	30	371.28	494,065	10,979.22	12,584.25	36.48	15,815.89	1,054.39	1,658.36	6.53
408	HE 900 B	291.5	900.0	300	18.5	35.0	30	371.28	494,065	10,979.22	12,584.25	36.48	15,815.89	1,054.39	1,658.36	6.53
272	HE 900 M	332.5	910.0	302	21.0	40.0	30	423.63	570,434	12,537.01	14,441.91	36.70	18,451.75	1,221.97	1,928.89	6.60
21	HE 900 x 466	466.0	938.0	312	30.0	54.0	30	593.69	814,946	17,376.25	20,375.97	37.05	27,559.77	1,766.65	2,831.82	6.81

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Stock	Designation	G kg/m	Dimensions					I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
531	HE 1000 AA	221.5	970.0	300	16.0	21.0	30	282.21	406,451	8,380.43	9,776.89	37.95	9,500.81	633.39	1,015.76	5.80
55	HE 1000 x 249	248.7	980.0	300	16.5	26.0	30	316.85	481,079	9,817.94	11,347.04	38.97	11,754.44	783.63	1,244.73	6.09
3,276	HE 1000 A	272.3	990.0	300	16.5	31.0	30	346.85	553,846	11,188.81	12,824.54	39.96	14,004.44	933.63	1,469.73	6.35
169	HE 1000 A	272.3	990.0	300	16.5	31.0	30	346.85	553,846	11,188.81	12,824.54	39.96	14,004.44	933.63	1,469.73	6.35
1,442	HE 1000 B	314.0	1,000.0	300	19.0	36.0	30	400.05	644,748	12,894.96	14,855.28	40.15	16,275.76	1,085.05	1,716.28	6.38
482	HE 1000 B	314.0	1,000.0	300	19.0	36.0	30	400.05	644,748	12,894.96	14,855.28	40.15	16,275.76	1,085.05	1,716.28	6.38
2,564	HE 1000 M	348.7	1,008.0	302	21.0	40.0	30	444.21	722,299	14,331.33	16,568.11	40.32	18,459.32	1,222.47	1,939.70	6.45
24	HE 1000 M	348.7	1,008.0	302	21.0	40.0	30	444.21	722,299	14,331.33	16,568.11	40.32	18,459.32	1,222.47	1,939.70	6.45
53	HE 1000 x 415	415.0	1,020.0	304	26.0	46.0	30	528.69	853,121	16,727.86	19,571.57	40.17	21,707.43	1,428.12	2,297.64	6.41
23	HE 1000 x 494	493.9	1,036.0	309	31.0	54.0	30	629.13	1,027,959	19,844.77	23,413.29	40.42	26,824.17	1,736.19	2,818.11	6.53

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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	cm ²	ly
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
36	HL 920 x 784	783.2	996.0	437	40.9	73.9	24	997.75	1,592,539	31,978.69	37,342.02	39.95	103,304.38	4,727.89	7,423.80	10.18
14	HL 1000 x 296	295.8	982.0	400	16.5	27.0	30	376.85	618,670	12,600.20	14,219.84	40.52	28,854.44	1,442.72	2,234.73	8.75
298	HL 1000 A	320.9	990.0	400	16.5	31.0	30	408.85	696,446	14,069.62	15,797.44	41.27	33,121.11	1,656.06	2,554.73	9.00
535	HL 1000 B	370.6	1,000.0	400	19.0	36.0	30	472.05	812,099	16,241.98	18,325.68	41.48	38,475.76	1,923.79	2,976.28	9.03
327	HL 1000 M	411.5	1,008.0	402	21.0	40.0	30	524.21	909,811	18,051.81	20,440.11	41.66	43,406.78	2,159.54	3,347.70	9.10
49	HL 1000 x 477	477.3	1,018.0	404	25.5	45.0	30	607.97	1,047,174	20,573.16	23,532.65	41.50	49,614.34	2,456.16	3,838.26	9.03
74	HL 1000 x 483	482.9	1,020.0	404	25.4	46.0	30	615.12	1,067,483	20,931.04	23,922.79	41.66	50,711.68	2,510.48	3,918.65	9.08
13	HL 1000 x 539	539.4	1,030.0	407	28.4	51.1	30	687.18	1,202,538	23,350.25	26,824.02	41.83	57,631.93	2,832.04	4,435.58	9.16
58	HL 1000 x 554	554.1	1,032.0	408	29.5	52.0	30	705.81	1,232,372	23,883.18	27,496.37	41.79	59,098.19	2,896.97	4,546.55	9.15
54	HL 1000 x 591	590.9	1,040.0	409	31.0	55.9	30	752.73	1,331,036	25,596.85	29,530.17	42.05	64,013.65	3,130.25	4,915.67	9.22
53	HL 1000 x 642	641.9	1,048.0	412	34.0	60.0	30	817.65	1,450,590	27,683.02	32,096.88	42.12	70,284.31	3,411.86	5,378.84	9.27
95	HL 1000 x 748	748.5	1,068.0	417	39.0	70.0	30	953.45	1,731,943	32,433.39	37,881.62	42.62	85,111.21	4,082.07	6,459.25	9.45
26	HL 1000 x 825	824.6	1,082.0	421	42.5	77.0	30	1,050.47	1,939,503	35,850.33	42,082.62	42.97	96,416.81	4,580.37	7,264.44	9.58
53	HL 1000 x 883	883.4	1,092.0	424	45.5	82.0	30	1,125.33	2,096,418	38,395.93	45,265.11	43.16	104,972.10	4,951.51	7,873.89	9.66
439	HL 1100 A	342.6	1,090.0	400	18.0	31.0	20	436.48	867,388	15,915.38	18,062.16	44.58	33,123.34	1,656.17	2,567.90	8.71
633	HL 1100 B	390.2	1,100.0	400	20.0	36.0	20	497.04	1,005,397	18,279.95	20,780.56	44.98	38,476.20	1,923.81	2,987.77	8.80
188	HL 1100 M	432.7	1,108.0	402	22.0	40.0	20	551.20	1,125,574	20,317.22	23,160.79	45.19	43,409.79	2,159.69	3,361.78	8.87
344	HL 1100 R	498.6	1,118.0	405	26.0	45.0	20	635.22	1,294,060	23,149.55	26,599.56	45.14	49,984.12	2,468.35	3,870.30	8.87

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HD

European wide flange columns

■ First choice
■ Second choice

Stock	Designation	G	Dimensions						I	Section properties							
			H	B	Tw	Tf	R	Strong axis				Weak axis					
								kg/m		mm	mm	mm	mm	mm	mm	cm ²	ly
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm		
333	HD 260 x 114	114.4	268.0	262	12.5	21.5	24	145.73	18,912	1,411.34	1,599.73	11.39	6,455.85	492.81	752.46	6.66	
168	HD 260 x 142	141.5	278.0	265	15.5	26.5	24	180.27	24,332	1,750.50	2,015.32	11.62	8,235.73	621.56	950.49	6.76	
72	HD 320 x 158	158.0	330.0	303	14.5	25.5	27	201.25	39,644	2,402.67	2,718.45	14.04	11,842.43	781.68	1,193.55	7.67	
164	HD 320 x 300	299.9	375.0	313	27.0	48.0	27	382.07	86,905	4,634.93	5,521.83	15.08	24,602.67	1,572.06	2,414.34	8.02	
37	HD 360 x 134	133.9	356.0	369	11.2	18.0	15	170.61	41,509	2,331.97	2,561.98	15.60	15,078.47	817.26	1,237.21	9.40	
17	HD 360 x 162	161.9	364.0	371	13.3	21.8	15	206.30	51,539	2,831.81	3,139.28	15.81	18,561.92	1,000.64	1,516.39	9.49	
6	HD 360 x 196	196.5	372.0	374	16.4	26.2	15	250.32	63,632	3,421.08	3,837.44	15.94	22,858.09	1,222.36	1,856.10	9.56	
382	HD 400 x 187	186.5	368.0	391	15.0	24.0	15	237.61	60,183	3,270.82	3,642.36	15.91	23,922.02	1,223.63	1,854.67	10.03	
14	HD 400 x 216	216.3	375.0	394	17.3	27.7	15	275.50	71,139	3,794.08	4,262.36	16.07	28,253.64	1,434.19	2,176.25	10.13	
37	HD 400 x 262	262.7	387.0	398	21.1	33.3	15	334.60	89,406	4,620.47	5,259.54	16.35	35,018.83	1,759.74	2,675.78	10.23	
36	HD 400 x 287	287.5	393.0	399	22.6	36.6	15	366.28	99,706	5,074.10	5,812.73	16.50	38,782.99	1,944.01	2,957.05	10.29	
15	HD 400 x 314	313.3	399.0	401	24.9	39.6	15	399.15	110,232	5,525.41	6,374.02	16.62	42,603.71	2,124.87	3,236.48	10.33	
10	HD 400 x 347	346.9	407.0	404	27.2	43.7	15	441.96	124,945	6,139.80	7,138.80	16.81	48,085.06	2,380.45	3,628.66	10.43	
32	HD 400 x 382	382.3	416.0	406	29.8	48.0	15	487.05	141,317	6,794.09	7,964.73	17.03	53,615.89	2,641.18	4,030.64	10.49	
19	HD 400 x 421	421.6	425.0	409	32.8	52.6	15	537.09	159,581	7,509.69	8,880.47	17.24	60,081.45	2,937.97	4,489.32	10.58	
25	HD 400 x 463	462.8	435.0	412	35.8	57.4	15	589.54	180,162	8,283.31	9,877.70	17.48	67,035.34	3,254.14	4,978.36	10.66	
40	HD 400 x 592	592.6	465.0	421	45.0	72.3	15	754.88	250,161	10,759.61	13,138.31	18.20	90,171.61	4,283.69	6,574.46	10.93	
8	HD 400 x 900	902.1	531.0	442	65.9	106.0	15	1,149.19	450,204	16,956.84	21,618.78	19.79	153,339.64	6,938.45	10,707.65	11.55	
13	HD 400 x 990	991.0	550.0	448	71.9	115.0	15	1,262.41	518,907	18,869.35	24,282.10	20.27	173,359.01	7,739.24	11,961.64	11.72	
121	HD 400 x 1086	1,087.8	569.0	454	78.0	125.0	15	1,385.75	595,723	20,939.30	27,211.51	20.73	196,247.70	8,645.27	13,375.63	11.90	

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HP

Wide flange bearing piles

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■ First choice
■ Second choice

Stock	Designation	Dimensions							Section properties							
		G	H	B	Tw	Tf	R	I	Strong axis			Weak axis				
									ly	Wely	Wply	ly	Iz	Welz	Wplz	Iz
Metres	kg/m	mm	mm	mm	mm	mm	mm	cm2	cm4	cm3	cm3	cm	cm4	cm3	cm3	cm
294	HP 200 x 43	42.5	200.0	205	9.0	9.0	10	54.14	3,888	388.80	434.54	8.47	1,293.80	126.22	193.38	4.89
103	HP 200 x 53	53.5	204.0	207	11.3	11.3	10	68.14	4,977	487.94	551.30	8.55	1,673.21	161.66	248.57	4.96
242	HP 220 x 57	57.2	210.0	225	11.0	11.0	18	72.85	5,729	545.62	613.66	8.87	2,079.31	185.24	285.54	5.34
232	HP 250 x 62	62.7	246.0	256	10.5	10.7	13	79.82	8,753	711.63	792.82	10.47	2,995.16	234.00	357.99	6.13
80	HP 260 x 75	75.0	249.0	265	12.0	12.0	24	95.55	10,646	855.10	958.53	10.56	3,732.55	281.70	435.07	6.25
472	HP 260 x 75	75.0	249.0	265	12.0	12.0	24	95.55	10,646	855.10	958.53	10.56	3,732.55	281.70	435.07	6.25
181	HP 260 x 87	87.3	253.0	267	14.0	14.0	24	111.21	12,586	994.94	1,123.56	10.64	4,455.00	333.71	516.17	6.33
155	HP 305 x 79	78.4	299.3	306	11.0	11.0	15	99.90	16,331	1,091.28	1,209.98	12.79	5,278.41	344.54	526.50	7.27
138	HP 305 x 88	88.0	301.7	308	12.4	12.3	15	112.06	18,425	1,221.41	1,360.49	12.82	5,984.44	388.85	595.21	7.31
285	HP 305 x 95	94.9	303.7	309	13.3	13.3	15	120.95	20,045	1,320.05	1,474.42	12.87	6,528.54	422.97	647.96	7.35
436	HP 305 x 110	110.0	307.9	311	15.3	15.4	15	140.08	23,563	1,530.56	1,720.06	12.97	7,709.12	496.24	761.72	7.42
115	HP 305 x 126	126.1	312.3	313	17.5	17.6	15	160.62	27,408	1,755.24	1,985.67	13.06	9,001.71	575.37	885.20	7.49
48	HP 305 x 149	149.1	318.5	316	20.6	20.7	15	189.89	33,067	2,076.42	2,370.22	13.20	10,910.37	690.53	1,065.63	7.58
125	HP 305 x 180	180.0	326.7	320	24.8	24.8	15	229.28	40,973	2,508.30	2,896.51	13.37	13,546.38	847.44	1,313.12	7.69
155	HP 305 x 186	186.0	328.3	321	25.5	25.6	15	236.95	42,610	2,595.80	3,003.01	13.41	14,142.93	881.45	1,366.35	7.73
192	HP 305 x 223	222.9	337.9	326	30.3	30.4	15	283.97	52,699	3,119.21	3,653.10	13.62	17,576.77	1,079.32	1,679.71	7.87
122	HP 310 x 132	131.3	314.0	313	18.3	18.3	15	167.25	28,683	1,826.94	2,071.94	13.10	9,369.95	598.72	922.06	7.48
25	HP 320 x 88	88.5	303.0	304	12.0	12.0	27	112.70	18,743	1,237.16	1,378.64	12.90	5,633.57	370.63	572.08	7.07
77	HP 320 x 103	102.8	307.0	306	14.0	14.0	27	131.00	22,053	1,436.68	1,611.21	12.97	6,704.21	438.18	677.29	7.15

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HP

Wide flange bearing piles

■ First choice
■ Second choice

Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	cm ²	ly
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
128	HP 320 x 147	146.7	319.0	312	20.0	20.0	27	186.86	32,671	2,048.34	2,338.52	13.22	10,160.06	651.29	1,011.38	7.37
66	HP 320 x 184	184.1	329.0	317	25.0	25.0	27	234.51	42,343	2,574.04	2,979.26	13.44	13,332.34	841.16	1,311.31	7.54
63	HP 360 x 84	84.3	340.0	367	10.0	10.0	15	107.38	23,207	1,365.12	1,498.17	14.70	8,242.70	449.19	683.11	8.76
88	HP 360 x 109	108.9	346.4	371	12.8	12.9	15	138.74	30,632	1,768.59	1,956.14	14.86	10,986.60	592.27	902.86	8.90
196	HP 360 x 133	133.0	352.0	374	15.6	15.7	15	169.37	37,983	2,158.13	2,405.62	14.98	13,679.57	731.92	1,118.58	8.99
40	HP 360 x 152	152.0	356.4	376	17.8	17.9	15	193.66	43,972	2,467.56	2,766.76	15.07	15,876.85	844.51	1,293.15	9.05
7	HP 360 x 174	173.9	361.4	379	20.3	20.4	15	221.49	51,009	2,822.86	3,185.76	15.18	18,462.57	975.57	1,496.99	9.13
72	HP 400 x 117	117.0	347.0	389	13.4	13.4	15	149.09	33,162	1,911.35	2,112.68	14.91	13,154.79	676.34	1,030.17	9.39
555	HP 400 x 122	122.4	348.0	390	14.0	14.0	15	155.93	34,770	1,998.28	2,212.30	14.93	13,850.64	710.29	1,082.38	9.42
33	HP 400 x 131	131.0	350.0	390	15.0	15.0	15	166.93	37,418	2,138.17	2,374.01	14.97	14,841.18	761.09	1,160.85	9.43
98	HP 400 x 135	134.8	351.0	391	15.4	15.4	15	171.67	38,620	2,200.57	2,445.80	15.00	15,354.89	785.42	1,198.30	9.46
181	HP 400 x 140	140.2	352.0	392	16.0	16.0	15	178.57	40,274	2,288.30	2,547.26	15.02	16,076.58	820.23	1,251.99	9.49
104	HP 400 x 158	158.1	356.0	394	18.0	18.0	15	201.37	45,939	2,580.84	2,888.16	15.10	18,367.55	932.36	1,425.43	9.55
344	HP 400 x 176	176.1	360.0	396	20.0	20.0	15	224.33	51,766	2,875.89	3,235.06	15.19	20,724.64	1,046.70	1,602.74	9.61
110	HP 400 x 194	194.2	364.0	398	22.0	22.0	15	247.45	57,759	3,173.57	3,588.02	15.28	23,148.95	1,163.26	1,783.94	9.67
70	HP 400 x 213	212.5	368.0	400	24.0	24.0	15	270.73	63,921	3,473.97	3,947.06	15.37	25,641.57	1,282.08	1,969.05	9.73
319	HP 400 x 231	230.9	372.0	402	26.0	26.0	15	294.17	70,255	3,777.15	4,312.26	15.45	28,203.60	1,403.16	2,158.09	9.79

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HTM

Wide flange bearing piles

■ First choice
■ Second choice

Stock	Designation	G kg/m	Dimensions						Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	ly cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
146	HTM 600 x 149	149.0	570.0	350	15.0	15.0	21	189.79	103,224	3,621.89	4,107.73	23.32	10,740.15	613.72	953.75	7.52

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UPE

Channels with parallel flanges

■ First choice
■ Second choice

Stock	Designation	G kg/m	Dimensions						I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm	Strong axis				Weak axis					
								ly cm ⁴		Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm	
8,362	UPE 80	7.9	80.0	50	4.0	7.0	10	10.10	107	26.80	31.23	3.26	25.41	7.98	14.28	1.59	
622	UPE 100	9.8	100.0	55	4.5	7.5	10	12.50	207	41.37	48.01	4.07	38.21	10.63	19.34	1.75	
6,478	UPE 120	12.1	120.0	60	5.0	8.0	12	15.40	364	60.58	70.33	4.86	55.40	13.79	25.28	1.90	
817	UPE 120	12.1	120.0	60	5.0	8.0	12	15.40	364	60.58	70.33	4.86	55.40	13.79	25.28	1.90	
6,028	UPE 140	14.4	140.0	65	5.0	9.0	12	18.40	600	85.64	98.84	5.71	78.70	18.19	33.22	2.07	
3,584	UPE 140	14.4	140.0	65	5.0	9.0	12	18.40	600	85.64	98.84	5.71	78.70	18.19	33.22	2.07	
5,599	UPE 160	17.0	160.0	70	5.5	9.5	12	21.70	911	113.90	131.60	6.48	106.80	22.58	41.49	2.22	
2,336	UPE 160	17.0	160.0	70	5.5	9.5	12	21.70	911	113.90	131.60	6.48	106.80	22.58	41.49	2.22	
4,569	UPE 180	19.7	180.0	75	5.5	10.5	12	25.10	1,353	150.40	173.00	7.34	143.70	28.56	52.30	2.39	
7,911	UPE 180	19.7	180.0	75	5.5	10.5	12	25.10	1,353	150.40	173.00	7.34	143.70	28.56	52.30	2.39	
367	UPE 200	22.8	200.0	80	6.0	11.0	13	29.00	1,909	190.90	220.10	8.11	187.30	34.43	63.28	2.54	
4,057	UPE 200	22.8	200.0	80	6.0	11.0	13	29.00	1,909	190.90	220.10	8.11	187.30	34.43	63.28	2.54	
2,568	UPE 220	26.6	220.0	85	6.5	12.0	13	33.90	2,682	243.90	281.50	8.90	246.40	42.51	78.25	2.70	
48	UPE 220	26.6	220.0	85	6.5	12.0	13	33.90	2,682	243.90	281.50	8.90	246.40	42.51	78.25	2.70	
2,491	UPE 240	30.2	240.0	90	7.0	12.5	15	38.50	3,599	299.90	346.90	9.67	310.90	50.08	92.18	2.84	
24	UPE 240	30.2	240.0	90	7.0	12.5	15	38.50	3,599	299.90	346.90	9.67	310.90	50.08	92.18	2.84	

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UPE

Channels with parallel flanges

■ First choice
■ Second choice

Stock	Designation	G kg/m	Dimensions						I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm	Strong axis				Weak axis					
								ly cm ⁴		Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm	
3,712	UPE 270	35.2	270.0	95	7.5	13.5	15	44.80	5,255	389.20	451.10	10.83	401.00	60.69	111.60	2.99	
46	UPE 270	35.2	270.0	95	7.5	13.5	15	44.80	5,255	389.20	451.10	10.83	401.00	60.69	111.60	2.99	
319	UPE 300	44.4	300.0	100	9.5	15.0	15	56.60	7,823	521.50	613.40	11.76	537.70	75.58	136.60	3.08	
1,832	UPE 330	53.2	330.0	105	11.0	16.0	18	67.80	11,010	667.10	791.90	12.74	681.50	89.66	156.20	3.17	
35	UPE 360	61.2	360.0	110	12.0	17.0	18	77.90	14,830	823.60	982.30	13.79	843.70	105.10	177.80	3.29	
886	UPE 400	72.1	400.0	115	13.5	18.0	18	91.90	20,980	1,049.00	1,263.00	15.11	1,045.00	122.60	191.40	3.37	
60	UPE 400	72.1	400.0	115	13.5	18.0	18	91.90	20,980	1,049.00	1,263.00	15.11	1,045.00	122.60	191.40	3.37	

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UPN

Channels with unparallel flanges

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■ First choice
■ Second choice

Stock	Designation	Dimensions							Section properties							
		G kg/m	H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
									Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
4,363	UPN 80	8.6	80.0	45	6.0	8.0	8	11.00	106	26.50	0.01	3.10	19.40	6.36	0.01	1.33
517	UPN 100	10.6	100.0	50	6.0	8.5	9	13.50	206	41.20	49.00	3.91	29.30	8.49	16.20	1.47
12	UPN 120	13.3	120.0	55	7.0	9.0	9	17.00	364	60.70	72.60	4.62	43.20	11.10	21.20	1.59
3,697	UPN 120	13.3	120.0	55	7.0	9.0	9	17.00	364	60.70	72.60	4.62	43.20	11.10	21.20	1.59
1,614	UPN 140	16.0	140.0	60	7.0	10.0	10	20.40	605	86.40	103.00	5.45	62.70	14.80	28.30	1.75
6,850	UPN 160	18.8	160.0	65	7.5	10.5	11	24.00	925	116.00	138.00	6.21	85.30	18.30	35.20	1.89
2,030	UPN 160	18.8	160.0	65	7.5	10.5	11	24.00	925	116.00	138.00	6.21	85.30	18.30	35.20	1.89
224	UPN 180	22.0	180.0	70	8.0	11.0	11	28.00	1,350	150.00	179.00	6.95	114.00	22.40	42.90	2.02
3,336	UPN 180	22.0	180.0	70	8.0	11.0	11	28.00	1,350	150.00	179.00	6.95	114.00	22.40	42.90	2.02
679	UPN 200	25.3	200.0	75	8.5	11.5	12	32.20	1,910	191.00	228.00	7.70	148.00	27.00	51.80	2.14
715	UPN 200	25.3	200.0	75	8.5	11.5	12	32.20	1,910	191.00	228.00	7.70	148.00	27.00	51.80	2.14
4,798	UPN 220	29.4	220.0	80	9.0	12.5	13	37.40	2,690	245.00	292.00	8.48	197.00	33.60	64.10	2.30
2,440	UPN 220	29.4	220.0	80	9.0	12.5	13	37.40	2,690	245.00	292.00	8.48	197.00	33.60	64.10	2.30
1,363	UPN 240	33.2	240.0	85	9.5	13.0	13	42.30	3,600	300.00	358.00	9.22	248.00	39.60	75.70	2.42
36	UPN 240	33.2	240.0	85	9.5	13.0	13	42.30	3,600	300.00	358.00	9.22	248.00	39.60	75.70	2.42
1,455	UPN 260	37.9	260.0	90	10.0	14.0	14	48.30	4,820	371.00	442.00	9.99	317.00	47.70	91.60	2.56

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UPN

Channels with unparallel flanges

■ First choice
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Stock	Designation	G kg/m	Dimensions					I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
44	UPN 260	37.9	260.0	90	10.0	14.0	14	48.30	4,820	371.00	442.00	9.99	317.00	47.70	91.60	2.56
985	UPN 280	41.8	280.0	95	10.0	15.0	15	53.30	6,280	448.00	532.00	10.90	399.00	57.20	109.00	2.74
405	UPN 300	46.2	300.0	100	10.0	16.0	16	58.80	8,030	535.00	632.00	11.70	495.00	67.80	130.00	2.90
116	UPN 300	46.2	300.0	100	10.0	16.0	16	58.80	8,030	535.00	632.00	11.70	495.00	67.80	130.00	2.90
689	UPN 320	59.5	320.0	100	14.0	17.5	18	75.80	10,870	679.00	826.00	12.10	597.00	80.60	152.00	2.81
55	UPN 320	59.5	320.0	100	14.0	17.5	18	75.80	10,870	679.00	826.00	12.10	597.00	80.60	152.00	2.81
47	UPN 350	60.7	350.0	100	14.0	16.0	16	77.30	12,840	734.00	918.00	12.90	570.00	75.00	143.00	2.72
783	UPN 400	71.8	400.0	110	14.0	18.0	18	91.50	20,350	1,020.00	1,240.00	14.90	846.00	102.00	190.00	3.04

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C

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Stock	Designation	G kg/m	Dimensions						Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
166	C 310 x 30.8	30.8	305.0	74	7.2	12.7	0	39.20	5,340	350.00	415.00	11.70	157.00	27.70	60.20	2.00

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W

American wide flange beams

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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	mm	cm ²
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
12	W 200 x 200 x 86	86.7	222.0	209	13.0	20.6	10	110.47	9,469	853.06	980.91	9.26	3,138.40	300.33	458.30	5.33
18	W 250 x 250 x 73	72.9	253.0	254	8.6	14.2	13	92.90	11,282	891.86	985.63	11.02	3,880.30	305.54	463.26	6.46
242	W 250 x 250 x 73	72.9	253.0	254	8.6	14.2	13	92.90	11,282	891.86	985.63	11.02	3,880.30	305.54	463.26	6.46
9	W 250 x 250 x 80	80.2	256.0	255	9.4	15.6	13	102.14	12,575	982.42	1,090.96	11.10	4,313.64	338.32	513.27	6.50
58	W 250 x 250 x 101	101.2	264.0	257	11.9	19.6	13	128.95	16,377	1,240.68	1,397.32	11.27	5,549.42	431.86	656.52	6.56
83	W 250 x 250 x 131	131.2	275.0	261	15.4	25.1	13	167.09	22,157	1,611.42	1,847.57	11.52	7,446.35	570.60	869.79	6.68
155	W 250 x 250 x 149	149.0	282.0	263	17.3	28.4	13	189.79	25,940	1,839.72	2,129.45	11.69	8,622.36	655.69	1,000.73	6.74
198	W 250 x 250 x 167	167.4	289.0	265	19.2	31.8	13	213.27	30,022	2,077.65	2,427.22	11.86	9,878.75	745.57	1,139.17	6.81
193	W 310 x 310 x 97	96.8	308.0	305	9.9	15.4	15	123.32	22,236	1,443.90	1,590.65	13.43	7,286.03	477.77	724.69	7.69
104	W 310 x 310 x 107	106.9	311.0	306	10.9	17.0	15	136.17	24,791	1,594.28	1,764.58	13.49	8,122.88	530.91	805.84	7.72
15	W 310 x 310 x 129	129.6	318.0	308	13.1	20.6	15	165.09	30,771	1,935.28	2,163.96	13.65	10,038.78	651.87	990.89	7.80
144	W 310 x 310 x 158	157.4	327.0	310	15.5	25.1	15	200.46	38,633	2,362.87	2,672.07	13.88	12,473.69	804.75	1,224.83	7.89
72	W 310 x 310 x 179	178.7	333.0	313	18.0	28.1	15	227.66	44,532	2,674.59	3,052.56	13.99	14,377.67	918.70	1,401.27	7.95
23	W 310 x 310 x 202	202.6	341.0	315	20.1	31.8	15	258.03	51,982	3,048.80	3,510.08	14.19	16,588.01	1,053.21	1,608.29	8.02
32	W 310 x 310 x 226	226.7	348.0	317	22.1	35.6	15	288.81	59,565	3,423.28	3,974.90	14.36	18,929.70	1,194.30	1,825.29	8.10
78	W 310 x 310 x 253	252.9	356.0	319	24.4	39.6	15	322.12	68,226	3,832.92	4,490.35	14.55	21,463.10	1,345.65	2,059.07	8.16
18	W 310 x 310 x 283	282.9	365.0	322	26.9	44.1	15	360.40	78,681	4,311.29	5,098.19	14.78	24,589.40	1,527.29	2,339.55	8.26
106	W 310 x 310 x 313	313.3	374.0	325	30.0	48.3	15	399.10	89,561	4,789.36	5,715.96	14.98	27,703.22	1,704.81	2,616.81	8.33
91	W 310 x 310 x 342	343.2	382.0	328	32.6	52.6	15	437.23	100,510	5,262.30	6,333.60	15.16	31,022.95	1,891.64	2,906.80	8.42
58	W 360 x 370 x 134	133.9	356.0	369	11.2	18.0	15	170.61	41,509	2,331.97	2,561.98	15.60	15,078.47	817.26	1,237.21	9.40
143	W 360 x 370 x 134	133.9	356.0	369	11.2	18.0	15	170.61	41,509	2,331.97	2,561.98	15.60	15,078.47	817.26	1,237.21	9.40
55	W 360 x 370 x 147	147.5	360.0	370	12.3	19.8	15	187.86	46,289	2,571.61	2,838.28	15.70	16,722.36	903.91	1,369.27	9.43

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American wide flange beams

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Stock	Designation	Dimensions							Section properties							
		G	H	B	Tw	Tf	R	I	Strong axis				Weak axis			
									ly	Wely	Wply	Iy	Iz	Welz	Wplz	Iz
Metres	kg/m	mm	mm	mm	mm	mm	mm	cm ²	cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm
91	W 360 x 370 x 147	147.5	360.0	370	12.3	19.8	15	187.86	46,289	2,571.61	2,838.28	15.70	16,722.36	903.91	1,369.27	9.43
45	W 360 x 370 x 162	161.9	364.0	371	13.3	21.8	15	206.30	51,539	2,831.81	3,139.28	15.81	18,561.92	1,000.64	1,516.39	9.49
62	W 360 x 370 x 179	179.2	368.0	373	15.0	23.9	15	228.26	57,440	3,121.74	3,482.31	15.86	20,682.99	1,109.01	1,682.70	9.52
397	W 360 x 370 x 196	196.5	372.0	374	16.4	26.2	15	250.32	63,632	3,421.08	3,837.44	15.94	22,858.09	1,222.36	1,856.10	9.56
342	W 360 x 410 x 216	216.3	375.0	394	17.3	27.7	15	275.50	71,139	3,794.08	4,262.36	16.07	28,253.64	1,434.19	2,176.25	10.13
155	W 360 x 410 x 237	236.2	380.0	395	18.9	30.2	15	300.92	78,778	4,146.21	4,685.62	16.18	31,041.67	1,571.73	2,386.99	10.16
179	W 360 x 410 x 262	262.7	387.0	398	21.1	33.3	15	334.60	89,406	4,620.47	5,259.54	16.35	35,018.83	1,759.74	2,675.78	10.23
117	W 360 x 410 x 287	287.5	393.0	399	22.6	36.6	15	366.28	99,706	5,074.10	5,812.73	16.50	38,782.99	1,944.01	2,957.05	10.29
235	W 360 x 410 x 347	346.9	407.0	404	27.2	43.7	15	441.96	124,945	6,139.80	7,138.80	16.81	48,085.06	2,380.45	3,628.66	10.43
257	W 360 x 410 x 382	382.3	416.0	406	29.8	48.0	15	487.05	141,317	6,794.09	7,964.73	17.03	53,615.89	2,641.18	4,030.64	10.49
48	W 360 x 410 x 421	421.6	425.0	409	32.8	52.6	15	537.09	159,581	7,509.69	8,880.47	17.24	60,081.45	2,937.97	4,489.32	10.58
131	W 360 x 410 x 463	462.8	435.0	412	35.8	57.4	15	589.54	180,162	8,283.31	9,877.70	17.48	67,035.34	3,254.14	4,978.36	10.66
29	W 360 x 410 x 509	509.4	446.0	416	39.1	62.7	15	648.95	204,528	9,171.66	11,032.73	17.75	75,400.89	3,625.04	5,552.27	10.78
27	W 360 x 410 x 551	550.6	455.0	418	42.0	67.6	15	701.38	226,110	9,938.90	12,050.79	17.95	82,494.74	3,947.12	6,051.41	10.85
47	W 360 x 410 x 592	592.6	465.0	421	45.0	72.3	15	754.88	250,161	10,759.61	13,138.31	18.20	90,171.61	4,283.69	6,574.46	10.93
47	W 360 x 410 x 634	634.3	474.0	424	47.6	77.1	15	807.97	274,171	11,568.40	14,222.10	18.42	98,250.97	4,634.48	7,116.76	11.03
67	W 360 x 410 x 677	677.8	483.0	428	51.2	81.5	15	863.41	299,470	12,400.41	15,346.11	18.62	106,871.33	4,993.99	7,680.06	11.13
64	W 360 x 410 x 990	991.0	550.0	448	71.9	115.0	15	1,262.41	518,907	18,869.35	24,282.10	20.27	173,359.01	7,739.24	11,961.64	11.72
78	W 360 x 410 x 1086	1,087.8	569.0	454	78.0	125.0	15	1,385.75	595,723	20,939.30	27,211.51	20.73	196,247.70	8,645.27	13,375.63	11.90
15	W 460 x 190 x 74	74.2	457.0	190	9.0	14.5	10	94.48	33,247	1,455.01	1,649.43	18.76	1,660.61	174.80	270.97	4.19
11	W 460 x 280 x 113	113.0	463.0	280	10.8	17.3	10	144.01	55,599	2,401.68	2,672.69	19.65	6,334.52	452.47	691.31	6.63
35	W 460 x 280 x 128	128.4	467.0	282	12.2	19.6	10	163.59	63,698	2,727.97	3,049.23	19.73	7,332.85	520.06	795.97	6.70
21	W 460 x 280 x 177	177.3	482.0	286	16.6	26.9	10	225.81	91,010	3,776.35	4,280.38	20.08	10,505.46	734.65	1,130.56	6.82
46	W 460 x 280 x 193	193.3	489.0	283	17.0	30.5	10	246.25	102,353	4,186.22	4,754.26	20.39	11,540.01	815.55	1,253.20	6.85

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American wide flange beams

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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	mm	cm ²
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
177	W 610 x 230 x 101	101.7	603.0	228	10.5	14.9	13	129.58	76,407	2,534.23	2,901.53	24.28	2,949.92	258.76	404.26	4.77
166	W 610 x 230 x 113	113.5	608.0	228	11.2	17.3	13	144.56	87,599	2,881.55	3,291.75	24.62	3,425.28	300.46	468.88	4.87
236	W 610 x 230 x 125	125.1	612.0	229	11.9	19.6	13	159.38	98,589	3,221.86	3,676.17	24.87	3,932.20	343.42	535.49	4.97
106	W 610 x 230 x 140	140.2	617.0	230	13.1	22.2	13	178.58	112,024	3,631.25	4,151.95	25.05	4,513.90	392.51	613.13	5.03
103	W 610 x 230 x 153	153.7	623.0	229	14.0	24.9	13	195.74	125,187	4,018.84	4,601.55	25.29	4,998.35	436.54	682.42	5.05
24	W 610 x 325 x 174	174.3	616.0	325	14.0	21.6	13	222.04	147,159	4,777.89	5,362.18	25.74	12,372.73	761.40	1,170.26	7.46
31	W 610 x 325 x 195	195.7	622.0	327	15.4	24.4	13	249.30	167,888	5,398.33	6,074.25	25.95	14,238.58	870.86	1,340.06	7.56
66	W 610 x 325 x 217	217.9	628.0	328	16.5	27.7	13	277.64	190,800	6,076.43	6,847.68	26.21	16,314.41	994.78	1,530.63	7.67
111	W 610 x 325 x 241	238.2	635.0	329	17.1	31.0	13	303.41	214,177	6,745.73	7,604.96	26.57	18,425.03	1,120.06	1,721.29	7.79
26	W 610 x 325 x 262	261.2	641.0	327	19.0	34.0	13	332.68	235,990	7,363.18	8,349.35	26.63	19,849.02	1,214.01	1,871.31	7.72
41	W 610 x 325 x 285	285.4	647.0	329	20.6	37.1	13	363.57	260,725	8,059.51	9,175.23	26.78	22,063.99	1,341.28	2,070.56	7.79
120	W 610 x 325 x 341	340.4	661.0	333	24.4	43.9	13	433.69	318,280	9,630.26	11,066.58	27.09	27,090.34	1,627.05	2,521.52	7.90
90	W 610 x 325 x 415	415.6	679.0	338	29.5	53.1	13	529.38	399,764	11,775.08	13,694.41	27.48	34,300.96	2,029.64	3,160.36	8.05
69	W 610 x 325 x 455	454.2	689.0	340	32.0	57.9	13	578.60	444,523	12,903.43	15,093.47	27.72	38,090.16	2,240.60	3,496.10	8.11
44	W 610 x 325 x 498	498.3	699.0	343	35.1	63.0	13	634.75	494,663	14,153.45	16,665.57	27.92	42,583.93	2,483.03	3,885.40	8.19
16	W 610 x 325 x 551	551.2	711.0	347	38.6	69.1	13	702.11	557,510	15,682.42	18,598.59	28.18	48,400.62	2,789.66	4,376.72	8.30
70	W 690 x 250 x 125	125.5	678.0	253	11.7	16.3	15	159.92	118,481	3,495.01	4,008.87	27.22	4,409.85	348.60	545.54	5.25
61	W 690 x 250 x 140	139.8	684.0	254	12.4	18.9	15	178.07	136,066	3,978.54	4,549.14	27.64	5,174.11	407.41	636.36	5.39
95	W 690 x 250 x 152	152.1	688.0	254	13.1	21.1	15	193.72	150,596	4,377.79	5,001.79	27.88	5,776.93	454.88	710.26	5.46
78	W 690 x 250 x 170	169.9	693.0	256	14.5	23.6	15	216.41	169,934	4,904.30	5,617.82	28.02	6,617.77	517.01	809.32	5.53
79	W 690 x 250 x 192	191.4	702.0	254	15.5	27.9	15	243.83	197,932	5,639.09	6,456.96	28.49	7,642.57	601.78	940.96	5.60
44	W 690 x 360 x 500	500.5	762.0	369	32.0	57.9	20	637.52	606,231	15,911.57	18,493.22	30.84	48,676.21	2,638.28	4,114.32	8.74

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W

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Stock	Designation	Dimensions							Section properties							
		G kg/m	H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis			Weak axis				
									Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
138	W 760 x 265 x 147	147.2	753.0	265	13.2	17.0	17	187.49	166,064	4,410.73	5,109.93	29.76	5,289.44	399.20	630.81	5.31
115	W 760 x 265 x 161	160.5	758.0	266	13.8	19.3	17	204.44	186,061	4,909.26	5,666.17	30.17	6,072.97	456.61	719.70	5.45
57	W 760 x 265 x 185	185.0	766.0	267	14.9	23.6	17	235.61	222,957	5,821.33	6,690.88	30.76	7,509.98	562.55	883.90	5.65
188	W 760 x 265 x 196	196.9	770.0	268	15.6	25.4	17	250.82	240,280	6,241.04	7,174.22	30.95	8,175.02	610.08	958.80	5.71
11	W 760 x 265 x 220	220.4	779.0	266	16.5	30.0	17	280.72	278,206	7,142.64	8,197.76	31.48	9,441.32	709.87	1,113.27	5.80
14	W 760 x 385 x 388	388.4	803.0	385	23.6	41.9	17	494.84	544,001	13,549.22	15,417.76	33.16	39,936.59	2,074.63	3,209.33	8.98
130	W 840 x 295 x 176	176.0	835.0	292	14.0	18.8	18	224.21	246,372	5,901.13	6,815.89	33.15	7,823.02	535.82	843.62	5.91
105	W 840 x 295 x 193	193.6	840.0	292	14.7	21.7	18	246.61	278,445	6,629.64	7,626.83	33.60	9,029.45	618.46	971.31	6.05
57	W 840 x 295 x 210	210.8	846.0	293	15.4	24.4	18	268.54	310,716	7,345.53	8,430.36	34.02	10,257.60	700.18	1,097.89	6.18
98	W 840 x 295 x 226	226.7	851.0	294	16.1	26.8	18	288.75	340,072	7,992.29	9,163.14	34.32	11,382.88	774.35	1,213.28	6.28
34	W 840 x 295 x 251	250.7	859.0	292	17.0	31.0	18	319.31	386,489	8,998.58	10,304.46	34.79	12,900.80	883.62	1,382.66	6.36
253	W 920 x 310 x 201	201.3	903.0	304	15.2	20.1	19	256.45	325,209	7,202.86	8,356.11	35.61	9,441.64	621.16	982.29	6.07
77	W 920 x 310 x 223	224.2	911.0	304	15.9	23.9	19	285.66	376,833	8,272.95	9,539.63	36.32	11,224.88	738.48	1,162.71	6.27
212	W 920 x 310 x 238	238.3	915.0	305	16.5	25.9	19	303.52	406,413	8,883.34	10,229.53	36.59	12,285.06	805.58	1,267.30	6.36
479	W 920 x 310 x 253	253.7	919.0	306	17.3	27.9	19	323.18	437,456	9,520.26	10,962.79	36.79	13,366.26	873.61	1,374.81	6.43
234	W 920 x 310 x 271	271.7	923.0	307	18.4	30.0	19	346.09	471,573	10,218.27	11,782.93	36.91	14,518.02	945.80	1,490.95	6.48
106	W 920 x 310 x 289	288.6	927.0	308	19.4	32.0	19	367.64	504,480	10,884.14	12,565.71	37.04	15,641.92	1,015.71	1,603.35	6.52
104	W 920 x 310 x 313	312.7	932.0	309	21.1	34.5	19	398.40	548,238	11,764.76	13,628.91	37.10	17,039.32	1,102.87	1,747.69	6.54
54	W 920 x 420 x 342	342.4	912.0	418	19.3	32.0	24	436.13	624,890	13,703.73	15,447.64	37.85	39,014.75	1,866.73	2,881.98	9.46
142	W 920 x 420 x 365	364.6	916.0	419	20.3	34.3	24	464.40	670,499	14,639.72	16,522.76	38.00	42,123.80	2,010.68	3,105.85	9.52
202	W 920 x 420 x 387	387.0	921.0	420	21.3	36.6	24	492.97	718,339	15,599.11	17,629.46	38.17	45,275.63	2,155.98	3,332.20	9.58
25	W 920 x 420 x 417	418.1	928.0	422	22.5	39.9	24	532.55	787,553	16,973.13	19,207.66	38.46	50,070.87	2,373.03	3,668.35	9.70
141	W 920 x 420 x 446	447.1	933.0	423	24.0	42.7	24	569.61	846,826	18,152.75	20,598.23	38.56	53,977.44	2,552.12	3,950.78	9.73

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W

American wide flange beams

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■ First choice
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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	cm ²	ly
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
118	W 920 x 420 x 488	487.7	942.0	422	25.9	47.0	24	621.26	935,388	19,859.62	22,614.72	38.80	59,008.99	2,796.63	4,336.25	9.75
116	W 920 x 420 x 534	533.9	950.0	425	28.4	51.1	24	680.07	1,031,235	21,710.21	24,832.13	38.94	65,560.48	3,085.20	4,795.60	9.82
31	W 920 x 420 x 585	585.0	960.0	427	31.0	55.9	24	745.27	1,143,091	23,814.40	27,363.06	39.16	72,767.52	3,408.31	5,310.20	9.88
24	W 920 x 420 x 653	653.1	972.0	431	34.5	62.0	24	831.95	1,292,120	26,586.83	30,726.38	39.41	83,048.22	3,853.75	6,022.11	9.99
34	W 920 x 420 x 784	783.2	996.0	437	40.9	73.9	24	997.75	1,592,539	31,978.69	37,342.02	39.95	103,304.38	4,727.89	7,423.80	10.18
38	W 920 x 420 x 967	966.3	1,028.0	446	50.0	89.9	24	1,230.95	2,032,596	39,544.67	46,813.67	40.64	133,857.06	6,002.56	9,486.42	10.43
11	W 920 x 420 x 1188	1,188.7	1,066.0	457	60.5	109.0	24	1,514.25	2,607,031	48,912.40	58,754.58	41.49	175,018.51	7,659.45	12,175.86	10.75
257	W 1000 x 300 x 249	248.7	980.0	300	16.5	26.0	30	316.85	481,079	9,817.94	11,347.04	38.97	11,754.44	783.63	1,244.73	6.09
22	W 1000 x 300 x 393	392.7	1,016.0	303	24.4	43.9	30	500.24	807,688	15,899.37	18,539.60	40.18	20,496.00	1,352.87	2,167.98	6.40
102	W 1000 x 300 x 415	415.0	1,020.0	304	26.0	46.0	30	528.69	853,121	16,727.86	19,571.57	40.17	21,707.43	1,428.12	2,297.64	6.41
44	W 1000 x 300 x 438	437.4	1,026.0	305	27.0	49.0	30	557.19	909,843	17,735.73	20,767.71	40.41	23,357.16	1,531.62	2,463.86	6.47
85	W 1000 x 300 x 494	493.9	1,036.0	309	31.0	54.0	30	629.13	1,027,959	19,844.77	23,413.29	40.42	26,824.17	1,736.19	2,818.11	6.53
31	W 1000 x 300 x 584	583.8	1,056.0	314	36.0	64.0	30	743.73	1,246,071	23,599.83	28,039.35	40.93	33,433.47	2,129.52	3,474.85	6.70
24	W 1000 x 400 x 483	482.9	1,020.0	404	25.4	46.0	30	615.12	1,067,483	20,931.04	23,922.79	41.66	50,711.68	2,510.48	3,918.65	9.08
23	W 1000 x 400 x 591	590.9	1,040.0	409	31.0	55.9	30	752.73	1,331,036	25,596.85	29,530.17	42.05	64,013.65	3,130.25	4,915.67	9.22

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UB

British universal beams

■ First choice
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Stock	Designation	G	Dimensions					I	Section properties							
			H	B	Tw	Tf	R		Strong axis				Weak axis			
									kg/m	mm	mm	mm	mm	mm	mm	cm ²
Metres								cm ⁴	cm ³	cm ³	cm	cm ⁴	cm ³	cm ³	cm	
10	UB 203 x 102 x 23	23.1	203.2	102	5.4	9.3	8	29.40	2,105	207.19	234.07	8.46	163.87	32.19	49.75	2.36
81	UB 305 x 165 x 40	40.3	303.4	165	6.0	10.2	9	51.32	8,503	560.51	623.07	12.87	764.36	92.65	141.73	3.86
137	UB 356 x 127 x 33	33.1	349.0	125	6.0	8.5	10	42.13	8,250	472.78	542.90	13.99	280.24	44.70	70.29	2.58
36	UB 356 x 171 x 51	51.0	355.0	172	7.4	11.5	10	64.91	14,136	796.39	896.01	14.76	968.28	112.92	174.20	3.86
3,456	UB 406 x 140 x 46	46.0	403.2	142	6.8	11.2	10	58.64	15,685	778.03	887.63	16.35	538.06	75.68	118.15	3.03
17	UB 406 x 178 x 74	74.2	412.8	180	9.5	16.0	10	94.51	27,310	1,323.16	1,500.81	17.00	1,545.47	172.20	266.98	4.04
179	UB 610 x 305 x 238	238.1	635.8	311	18.4	31.4	17	303.33	209,471	6,589.21	7,486.23	26.28	15,836.66	1,017.13	1,573.94	7.23
18	UB 686 x 254 x 140	140.1	683.5	254	12.4	19.0	15	178.43	136,267	3,987.33	4,558.13	27.64	5,183.12	408.60	638.17	5.39
12	UB 686 x 254 x 152	152.4	687.5	255	13.2	21.0	15	194.08	150,355	4,373.96	5,000.48	27.83	5,783.93	454.53	710.19	5.46
18	UB 762 x 267 x 147	146.9	754.0	265	12.8	17.5	17	187.19	168,502	4,469.55	5,155.56	30.00	5,455.27	411.41	647.21	5.40
20	UB 838 x 292 x 176	175.9	834.9	292	14.0	18.8	18	224.02	246,021	5,893.42	6,807.76	33.14	7,798.88	534.72	841.89	5.90
12	UB 914 x 419 x 343	343.3	911.8	419	19.4	32.0	24	437.30	625,780	13,726.26	15,477.05	37.83	39,155.69	1,871.24	2,889.57	9.46

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UBP

British universal bearing piles with wide flanges

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■ First choice
■ Second choice

Stock	Designation	G kg/m	Dimensions					I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
32	UBP 305 x 305 x 88	88.0	301.7	308	12.4	12.3	15	112.06	18,425	1,221.41	1,360.49	12.82	5,984.44	388.85	595.21	7.31
15	UBP 305 x 305 x 186	186.0	328.3	321	25.5	25.6	15	236.95	42,610	2,595.80	3,003.01	13.41	14,142.93	881.45	1,366.35	7.73
145	UBP 356 x 368 x 109	108.9	346.4	371	12.8	12.9	15	138.74	30,632	1,768.59	1,956.14	14.86	10,986.60	592.27	902.86	8.90
523	UBP 356 x 368 x 109	108.9	346.4	371	12.8	12.9	15	138.74	30,632	1,768.59	1,956.14	14.86	10,986.60	592.27	902.86	8.90
36	UBP 356 x 368 x 133	133.0	352.0	374	15.6	15.7	15	169.37	37,983	2,158.13	2,405.62	14.98	13,679.57	731.92	1,118.58	8.99
18	UBP 356 x 368 x 133	133.0	352.0	374	15.6	15.7	15	169.37	37,983	2,158.13	2,405.62	14.98	13,679.57	731.92	1,118.58	8.99
11	UBP 356 x 368 x 152	152.0	356.4	376	17.8	17.9	15	193.66	43,972	2,467.56	2,766.76	15.07	15,876.85	844.51	1,293.15	9.05
106	UBP 356 x 368 x 174	173.9	361.4	379	20.3	20.4	15	221.49	51,009	2,822.86	3,185.76	15.18	18,462.57	975.57	1,496.99	9.13

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UC

British universal columns

■ First choice
■ Second choice

Stock	Designation	G kg/m	Dimensions					I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm		Strong axis				Weak axis			
									ly cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
9	UC 152 x 152 x 23	23.0	152.4	152	5.8	6.8	8	29.25	1,250	164.04	181.98	6.54	399.92	52.55	80.16	3.70
12	UC 203 x 203 x 46	46.1	203.2	204	7.2	11.0	10	58.73	4,568	449.61	497.44	8.82	1,548.21	152.08	230.87	5.13
24	UC 254 x 254 x 73	73.1	254.1	255	8.6	14.2	13	93.10	11,407	897.84	992.07	11.07	3,907.80	306.98	465.39	6.48
10	UC 254 x 254 x 132	132.0	276.3	261	15.3	25.3	13	168.14	22,529	1,630.76	1,869.41	11.58	7,531.28	576.45	878.37	6.69
88	UC 305 x 305 x 97	96.9	307.9	305	9.9	15.4	15	123.45	22,249	1,445.21	1,592.08	13.42	7,307.60	478.72	726.15	7.69
244	UC 305 x 305 x 118	117.9	314.5	307	12.0	18.7	15	150.20	27,672	1,759.75	1,957.54	13.57	9,059.10	589.40	895.37	7.77
175	UC 305 x 305 x 137	136.9	320.5	309	13.8	21.7	15	174.42	32,814	2,047.68	2,296.56	13.72	10,699.55	692.08	1,052.55	7.83
94	UC 305 x 305 x 198	198.1	339.9	315	19.1	31.4	15	252.42	50,904	2,995.23	3,439.99	14.20	16,299.05	1,036.51	1,580.73	8.04
74	UC 305 x 305 x 240	240.0	352.5	318	23.0	37.7	15	305.79	64,203	3,642.72	4,247.08	14.49	20,314.59	1,276.04	1,950.59	8.15
62	UC 356 x 368 x 129	129.0	355.6	369	10.4	17.5	15	164.34	40,246	2,263.55	2,479.28	15.65	14,611.36	792.80	1,199.20	9.43
70	UC 356 x 368 x 153	152.9	362.0	371	12.3	20.7	15	194.80	48,589	2,684.48	2,964.74	15.79	17,553.17	947.54	1,434.77	9.49
117	UC 356 x 368 x 177	177.0	368.2	373	14.4	23.8	15	225.51	57,118	3,102.55	3,455.25	15.91	20,529.28	1,101.95	1,670.81	9.54
139	UC 356 x 368 x 202	201.9	374.6	375	16.5	27.0	15	257.22	66,261	3,537.69	3,971.75	16.05	23,688.41	1,264.39	1,919.53	9.60
24	UC 356 x 406 x 235	235.1	381.0	395	18.4	30.2	15	299.43	79,085	4,151.44	4,686.51	16.25	30,993.23	1,570.07	2,383.23	10.17
56	UC 356 x 406 x 287	287.1	393.6	399	22.6	36.5	15	365.71	99,875	5,074.95	5,812.49	16.53	38,677.35	1,938.71	2,949.27	10.28
117	UC 356 x 406 x 340	339.9	406.4	403	26.6	42.9	15	433.04	122,543	6,030.66	6,999.09	16.82	46,853.32	2,325.23	3,543.70	10.40
80	UC 356 x 406 x 393	393.0	419.0	407	30.6	49.2	15	500.58	146,618	6,998.47	8,222.45	17.11	55,367.34	2,720.75	4,153.73	10.52
7	UC 356 x 406 x 467	467.0	436.6	412	35.8	58.0	15	594.91	183,003	8,383.10	10,002.47	17.54	67,833.62	3,291.30	5,034.31	10.68
18	UC 356 x 406 x 551	551.0	455.6	419	42.1	67.5	15	701.93	226,938	9,962.16	12,076.27	17.98	82,670.53	3,950.80	6,057.96	10.85
6	UC 356 x 406 x 634	633.9	474.6	424	47.6	77.0	15	807.55	274,845	11,582.17	14,235.11	18.45	98,125.09	4,628.54	7,108.37	11.02

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HJ

British universal columns

■ First choice
■ Second choice

Stock	Designation	G kg/m	Dimensions						I cm ²	Section properties							
			H mm	B mm	Tw mm	Tf mm	R mm	Strong axis				Weak axis					
								ly cm ⁴		Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm	
8	HJ 100 x 100 x 6 x 8	16.9	100.0	100	6.0	8.0	8	21.59	378	75.58	86.39	4.18	133.62	26.72	41.02	2.49	
12	300 x 300 x 16	110.7	300.0	300	16.0	16.0	16	141.08	22,318	1,487.87	1,679.17	12.58	7,212.29	480.82	739.70	7.15	
279	400 x 120 x 10	75.8	400.0	120	10.0	10.0	10	62.86	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
26	400 x 400 x 20	184.8	400.0	400	20.0	20.0	20	235.44	66,648	3,332.40	3,748.29	16.82	21,365.00	1,068.25	1,640.97	9.53	
60	70 x 40 x 5	5.7	70.0	40	5.0	5.0	5	7.21	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
21	200 x 100 x 4	18.3	200.0	100	4.0	4.0	4	23.36	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

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