



Technical data of sections

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Technical data of sections L

Equal and unequal leg angles

Tel: +33 3 44 77 30 00

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
L 20 x 20 x 3	0.9	20.0	20	3.0	3.0	4	1.12	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 25 x 25 x 3	1.1	25.0	25	3.0	3.0	4	1.42	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 25 x 25 x 4	1.5	25.0	25	4.0	4.0	4	1.85	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 30 x 30 x 3	1.4	30.0	30	3.0	3.0	5	1.74	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 30 x 30 x 4	1.8	30.0	30	4.0	4.0	5	2.27	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 35 x 35 x 4	2.1	35.0	35	4.0	4.0	5	2.67	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
L 40 x 40 x 5	3.0	40.0	40	5.0	5.0	6	3.79	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
L 50 x 50 x 4	3.1	50.0	50	4.0	4.0	7	3.89	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 50 x 50 x 5	3.8	50.0	50	5.0	5.0	7	4.80	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 50 x 50 x 6	4.5	50.0	50	6.0	6.0	7	5.69	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
L 60 x 60 x 5	4.6	60.0	60	5.0	5.0	8	5.82	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
L 60 x 60 x 8	7.1	60.0	60	8.0	8.0	8	9.03	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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Technical data of sections L

Equal and unequal leg angles

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
L 65 x 65 x 7	6.8	65.0	65	7.0	7.0	9	8.70	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
L 70 x 70 x 6	6.4	70.0	70	6.0	6.0	9	8.13	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
L 75 x 75 x 6	6.9	75.0	75	6.0	6.0	10	8.73	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 75 x 75 x 8	8.9	75.0	75	8.0	8.0	10	11.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
L 80 x 80 x 8	9.7	80.0	80	8.0	8.0	10	12.30	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 80 x 80 x 10	11.9	80.0	80	10.0	10.0	10	15.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
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
L 90 x 90 x 9	12.2	90.0	90	9.0	9.0	11	15.50	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 90 x 90 x 10	13.4	90.0	90	10.0	10.0	11	17.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
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
L 100 x 100 x 12	17.8	100.0	100	12.0	12.0	12	22.71	207	29.12	1.00	3.02	206.70	29.12	1.00	3.02

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Technical data of sections L

Equal and unequal leg angles

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Designation	G kg/m	Dimensions						Section properties							
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
								I _y cm ⁴	W _{ely} cm ³	W _{ply} cm ³	I _y cm	I _z cm ⁴	W _{elz} cm ³	W _{piz} cm ³	I _z cm
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
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
L 110 x 110 x 10	16.6	110.0	110	10.0	10.0	13	21.18	238	29.99	1.00	3.35	238.00	29.99	1.00	3.35
L 110 x 110 x 12	19.7	110.0	110	12.0	12.0	13	25.14	279	35.54	1.00	3.33	279.10	35.54	1.00	3.33
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
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
L 120 x 120 x 10	18.2	120.0	120	10.0	10.0	13	23.18	313	36.03	1.00	3.67	312.90	36.03	1.00	3.67
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
L 120 x 120 x 12	21.6	120.0	120	12.0	12.0	13	27.54	368	42.73	1.00	3.65	367.70	42.73	1.00	3.65
L 120 x 120 x 13	23.3	120.0	120	13.0	13.0	13	29.69	394	46.01	1.00	3.64	394.00	46.01	1.00	3.64
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
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
L 130 x 130 x 12	23.6	130.0	130	12.0	12.0	14	30.00	472	50.44	1.00	3.97	472.20	50.44	1.00	3.97
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
L 140 x 140 x 12	25.5	140.0	140	12.0	12.0	15	32.45	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 140 x 140 x 13	27.4	140.0	140	13.0	13.0	15	34.95	639	63.37	1.00	4.27	638.50	63.37	1.00	4.27
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
L 140 x 140 x 15	31.4	140.0	140	15.0	15.0	15	40.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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

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								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
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
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
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
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
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
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
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
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
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
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
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
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
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
L 160 x 160 x 19	45.1	160.0	160	19.0	19.0	17	57.50	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 160 x 160 x 20	47.3	160.0	160	20.0	20.0	17	60.30	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
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
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
L 180 x 180 x 17	46.1	180.0	180	17.0	17.0	18	58.70	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 180 x 180 x 18	48.6	180.0	180	18.0	18.0	18	61.90	1	1.00	1.00	1.00	1.00	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			
								Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
L 180 x 180 x 19	51.1	180.0	180	19.0	19.0	18	65.10	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
L 200 x 200 x 13	39.8	200.0	200	13.0	13.0	18	50.70	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
L 200 x 200 x 16	48.5	200.0	200	16.0	16.0	18	61.80	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
L 200 x 200 x 19	57.1	200.0	200	19.0	19.0	18	72.70	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
L 200 x 200 x 21	62.7	200.0	200	21.0	21.0	18	79.90	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
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
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
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
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
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
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
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
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
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

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		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
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
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
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
L 250 x 250 x 20	75.7	250.0	250	20.0	20.0	18	96.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 250 x 250 x 21	79.3	250.0	250	21.0	21.0	18	101.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 250 x 250 x 22	83.2	250.0	250	22.0	22.0	18	106.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 250 x 250 x 23	86.4	250.0	250	23.0	23.0	18	110.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
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
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
L 250 x 250 x 27	100.5	250.0	250	27.0	27.0	18	128.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 250 x 250 x 28	104.4	250.0	250	28.0	28.0	18	133.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L x 250 x 250 x 19	107.2	250.0	250	19.0	19.0	18	136.50	8	443.10	1.00	7,858.00	7.59	443.10	1.00	7,858.00
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
L 250 x 250 x 31	114.1	250.0	250	31.0	31.0	18	145.40	8,313	470.80	1.00	7.56	8,313.00	470.80	1.00	7.56
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
L 250 x 250 x 33	121.0	250.0	250	33.0	33.0	18	154.10	8,757	498.00	7.54	1.00	8,757.00	498.00	7.54	1.00
L 250 x 250 x 34	124.3	250.0	250	34.0	34.0	18	158.40	8,975	511.50	7.53	1.00	8,975.00	511.50	7.53	1.00
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
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
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
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
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

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Technical data of sections L

Equal and unequal leg angles

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Designation	G kg/m	Dimensions					I cm ²	Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm		Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
L 300 x 300 x 25	112.0	300.0	300	25.0	25.0	18	142.70	12,150	561.10	9.23	1.00	12,150.00	561.10	9.23	1.00
L 300 x 300 x 26	116.3	300.0	300	26.0	26.0	18	148.20	12,590	582.50	9.22	1.00	12,590.00	582.50	9.22	1.00
L 300 x 300 x 27	120.7	300.0	300	27.0	27.0	18	153.70	13,020	603.50	9.20	1.00	13,020.00	603.50	9.20	1.00
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
L 300 x 300 x 29	129.2	300.0	300	29.0	29.0	18	164.60	13,870	645.20	9.18	1.00	13,870.00	645.20	9.18	1.00
L 300 x 300 x 30	133.5	300.0	300	30.0	30.0	18	170.00	14,290	666.00	9.17	1.00	14,290.00	666.00	9.17	1.00
L 300 x 300 x 31	137.7	300.0	300	31.0	31.0	18	175.40	14,700	686.30	9.16	1.00	14,700.00	686.30	9.16	1.00
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
L 300 x 300 x 33	146.1	300.0	300	34.0	34.0	18	186.10	15,520	727.20	9.13	1.00	15,520.00	727.20	9.13	1.00
L 300 x 300 x 34	150.2	300.0	300	34.0	34.0	18	191.40	15,930	747.70	9.12	1.00	15,930.00	747.70	9.12	1.00
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
L 305 x 305 x 25.4	115.6	305.0	305	25.4	25.4	19	147.20	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 305 x 305 x 31.2	143.2	305.0	305	31.2	31.2	19	182.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L 120 x 80 x 8	12.2	120.0	80	8.0	8.0	11	15.49	226	27.63	1.00	3.82	80.76	13.17	1.00	2.28
L 120 x 80 x 10	15.0	120.0	80	10.0	10.0	11	19.13	276	34.10	1.00	1.00	98.11	16.21	1.00	1.00
L 120 x 80 x 12	17.8	120.0	80	12.0	12.0	11	22.69	323	40.37	1.00	1.00	114.33	19.14	1.00	1.00
L 130 x 65 x 8	11.8	130.0	65	8.0	8.0	11	15.09	263	31.10	1.00	1.00	44.77	8.72	1.00	1.00
L 130 x 65 x 10	14.6	130.0	65	10.0	10.0	11	18.63	321	38.39	1.00	1.00	54.20	10.73	1.00	1.00
L 150 x 75 x 9	15.4	150.0	75	9.0	9.0	12	19.60	455	46.74	1.00	4.82	77.91	13.14	1.00	1.99

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Technical data of sections L

Equal and unequal leg angles

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
L 150 x 75 x 10	17.0	150.0	75	10.0	10.0	12	21.70	501	51.65	1.00	4.81	85.37	14.50	1.00	1.99
L 150 x 75 x 11	18.6	150.0	75	11.0	11.0	12	23.70	545	56.49	1.00	4.80	92.57	15.83	1.00	1.98
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
L 150 x 90 x 10	18.2	150.0	90	10.0	10.0	12	23.15	533	53.29	1.00	1.00	146.10	20.98	1.00	1.00
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
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
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
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
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
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
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
L 160 x 80 x 10	18.2	160.0	80	10.0	10.0	13	23.18	611	58.94	1.00	1.00	104.40	16.55	1.00	1.00
L 160 x 80 x 12	21.6	160.0	80	12.0	12.0	13	27.54	720	69.98	1.00	1.00	122.00	19.59	1.00	1.00
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
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
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
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
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

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Technical data of sections FL

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Large flats

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
FL 40 x 5	1.6	5.0	40	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 40 x 6	1.9	6.0	40	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 40 x 7	2.2	7.0	40	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 40 x 8	2.5	8.0	40	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 40 x 10	3.1	10.0	40	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 40 x 12	3.8	12.0	40	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 40 x 14	4.4	14.0	40	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 40 x 15	4.7	15.0	40	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 50 x 5	2.0	5.0	50	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 50 x 6	2.4	6.0	50	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 50 x 7	2.7	7.0	50	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 50 x 8	3.1	8.0	50	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 50 x 10	3.9	10.0	50	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 50 x 12	4.7	12.0	50	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 50 x 14	5.5	14.0	50	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 50 x 15	5.9	15.0	50	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 60 x 5	2.4	5.0	60	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 60 x 6	2.8	6.0	60	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 60 x 7	3.3	7.0	60	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 60 x 8	3.8	8.0	60	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 60 x 10	4.7	10.0	60	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 60 x 12	5.7	12.0	60	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Technical data of sections FL

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Large flats

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
FL 60 x 14	6.6	14.0	60	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 60 x 15	7.1	15.0	60	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 70 x 5	2.7	5.0	70	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 70 x 6	3.3	6.0	70	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 70 x 7	3.8	7.0	70	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 70 x 8	4.4	8.0	70	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 70 x 10	5.5	10.0	70	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 70 x 12	6.6	12.0	70	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 70 x 14	7.7	14.0	70	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 70 x 15	8.2	15.0	70	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 80 x 5	3.1	5.0	80	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 80 x 6	3.8	6.0	80	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 80 x 7	4.4	7.0	80	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 80 x 8	5.0	8.0	80	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 80 x 10	6.3	10.0	80	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 80 x 12	7.5	12.0	80	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 80 x 14	8.8	14.0	80	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 80 x 15	9.4	15.0	80	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 90 x 5	3.5	5.0	90	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 90 x 6	4.2	6.0	90	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 90 x 7	4.9	7.0	90	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 90 x 8	5.7	8.0	90	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Technical data of sections FL

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Large flats

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
FL 90 x 10	7.1	10.0	90	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 90 x 12	8.5	12.0	90	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 90 x 14	9.9	14.0	90	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 90 x 15	10.6	15.0	90	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 5	3.9	5.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 6	4.7	6.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 7	5.5	7.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 8	6.3	8.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 10	7.9	10.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 12	9.4	12.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 14	11.0	14.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 15	11.8	15.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 16	12.6	16.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 18	14.1	18.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 20	15.7	20.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 100 x 25	19.6	25.0	100	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 110 x 8	6.9	8.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 110 x 10	8.6	10.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 110 x 12	10.4	12.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 110 x 14	12.1	14.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 110 x 15	13.0	15.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 110 x 16	13.8	16.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 110 x 18	15.5	18.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Large flats

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
FL 110 x 20	17.3	20.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 110 x 25	21.6	25.0	110	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 8	7.5	8.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 10	9.4	10.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 12	11.3	12.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 14	13.2	14.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 15	14.1	15.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 16	15.1	16.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 18	17.0	18.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 20	18.8	20.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 120 x 25	23.6	25.0	120	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 8	8.2	8.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 10	10.2	10.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 12	12.2	12.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 14	14.3	14.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 15	15.3	15.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 16	16.3	16.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 18	18.4	18.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 20	20.4	20.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 130 x 25	25.5	25.0	130	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 140 x 8	8.8	8.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 140 x 10	11.0	10.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Technical data of sections FL

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Large flats

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
FL 140 x 12	13.2	12.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 140 x 14	15.4	14.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 140 x 15	16.5	15.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 140 x 16	17.6	16.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 140 x 18	19.8	18.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 140 x 20	22.0	20.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 140 x 25	27.5	25.0	140	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 8	9.4	8.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 10	11.8	10.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 12	14.1	12.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 14	16.5	14.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 15	17.7	15.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 16	18.8	16.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 18	21.2	18.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 20	23.6	20.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 150 x 25	29.4	25.0	150	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 160 x 8	10.0	8.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 160 x 10	12.6	10.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 160 x 12	15.1	12.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 160 x 14	17.6	14.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 160 x 15	18.8	15.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 160 x 16	20.1	16.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 160 x 18	22.6	18.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Technical data of sections FL

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Large flats

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
FL 160 x 20	25.1	20.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 160 x 25	31.4	25.0	160	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 8	11.3	8.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 10	14.1	10.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 12	17.0	12.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 14	19.8	14.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 15	21.2	15.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 16	22.6	16.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 18	25.4	18.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 20	28.3	20.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 180 x 25	35.3	25.0	180	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 8	12.6	8.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 10	15.7	10.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 12	18.8	12.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 14	22.0	14.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 15	23.6	15.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 16	25.1	16.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 18	28.3	18.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 20	31.4	20.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 25	39.3	25.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 30	47.1	30.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 35	55.0	35.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 200 x 40	62.8	40.0	200	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Technical data of sections FL

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Large flats

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
FL 220 x 10	17.3	10.0	220	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 220 x 12	20.7	12.0	220	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 220 x 15	25.9	15.0	220	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 220 x 20	34.5	20.0	220	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 220 x 25	43.2	25.0	220	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 220 x 30	51.8	30.0	220	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 220 x 35	60.4	35.0	220	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 220 x 40	69.1	40.0	220	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 250 x 10	19.6	10.0	250	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 250 x 12	23.6	12.0	250	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 250 x 15	29.4	15.0	250	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 250 x 20	39.3	20.0	250	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 250 x 25	49.1	25.0	250	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 250 x 30	58.9	30.0	250	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 250 x 35	68.7	35.0	250	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 250 x 40	78.5	40.0	250	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 300 x 10	23.6	10.0	300	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 300 x 12	28.3	12.0	300	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 300 x 15	35.3	15.0	300	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 300 x 20	47.1	20.0	300	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 300 x 25	58.9	25.0	300	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 300 x 30	70.7	30.0	300	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Large flats

Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
FL 300 x 35	82.4	35.0	300	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 300 x 40	94.2	40.0	300	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 350 x 10	27.5	10.0	350	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
FL 350 x 15	41.2	15.0	350	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 350 x 20	55.0	20.0	350	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
FL 350 x 35	96.2	35.0	350	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 350 x 40	109.9	40.0	350	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 400 x 10	31.4	10.0	400	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 400 x 12	37.7	12.0	400	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 400 x 15	47.1	15.0	400	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 400 x 20	62.8	20.0	400	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 400 x 25	78.5	25.0	400	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 400 x 30	94.2	30.0	400	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 400 x 35	109.9	35.0	400	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FL 400 x 40	125.6	40.0	400	0.0	0.0	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Technical data of sections IPE

European beams with parallel flanges

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Designation	G kg/m	Dimensions						Section properties							
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
								I _y cm ⁴	W _{ely} cm ³	W _{ply} cm ³	I _y cm	I _z cm ⁴	W _{elz} cm ³	W _{plz} cm ³	I _z cm
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
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
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
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
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
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
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
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
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
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
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
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
IPE O 180	21.3	182.0	92	6.0	9.0	9	27.10	1,505	165.38	189.15	7.45	117.29	25.50	39.91	2.08
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
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
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
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

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Technical data of sections IPE

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
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
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
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
IPE O 240	34.3	242.0	122	7.0	10.8	15	43.71	4,369	361.07	410.28	10.00	328.54	53.86	84.40	2.74
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
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
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
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
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
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
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
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
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
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
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
IPE O 360	66.0	364.0	172	9.2	14.7	18	84.13	19,048	1,046.59	1,186.10	15.05	1,251.22	145.49	226.92	3.86
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
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

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								Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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								Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
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
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
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
IPE 750 x 210	210.1	775.0	268	16.0	28.0	17	267.60	262,161	6,765.45	7,761.61	31.30	9,011.04	672.47	1,054.48	5.80

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Technical data of sections IPN

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Designation	G kg/m	Dimensions						Section properties							
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								Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
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
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
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
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
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
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
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
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
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
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
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

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								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
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
IPN 360	76.1	360.0	143	13.0	19.5	13	97.00	19,610	1,090.00	1,276.00	14.20	818.00	114.00	194.00	2.90
IPN 380	84.0	380.0	149	13.7	20.5	14	107.00	24,010	1,260.00	1,482.00	15.00	975.00	131.00	221.00	3.02
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
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
IPN 500	140.5	500.0	185	18.0	27.0	18	179.00	68,740	2,750.00	3,240.00	19.60	2,480.00	268.00	456.00	3.72
IPN 550	166.4	550.0	200	19.0	30.0	19	212.00	99,180	3,610.00	4,240.00	21.60	3,490.00	349.00	592.00	4.02
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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Technical data of sections HE

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
HE 100 C	30.9	110.0	103	9.0	15.0	12	39.34	759	137.95	165.78	4.39	274.37	53.28	82.08	2.64
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
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
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
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
HE 120 C	39.2	130.0	123	9.5	16.0	12	49.91	1,388	213.54	252.88	5.27	497.68	80.92	124.16	3.16
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
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
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
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
HE 140 C	48.2	150.0	143	10.0	17.0	12	61.46	2,330	310.67	363.80	6.16	830.28	116.12	177.67	3.68
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
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
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
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
HE 160 C	59.1	170.0	163	11.0	18.0	15	75.35	3,704	435.76	507.64	7.01	1,302.38	159.80	244.89	4.16
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

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Designation	G kg/m	Dimensions						Section properties							
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								Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
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
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
HE 180 C	69.8	190.0	183	11.5	19.0	15	88.95	5,543	583.47	675.02	7.89	1,944.37	212.50	324.93	4.68
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
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
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
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
HE 200 C	81.9	210.0	203	12.0	20.0	18	104.38	8,029	764.67	880.63	8.77	2,794.03	275.27	421.00	5.17
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
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
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
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
HE 220 C	94.2	230.0	223	12.5	21.0	18	119.94	11,180	972.17	1,114.23	9.65	3,887.66	348.67	532.36	5.69
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
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
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
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
HE 240 C	119.5	255.0	244	14.0	24.5	21	152.19	17,327	1,358.98	1,563.68	10.67	5,942.24	487.07	743.84	6.25
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
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

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		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
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
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
HE 260 C	132.2	275.0	264	14.0	25.0	24	168.45	22,591	1,642.98	1,880.18	11.58	7,680.26	581.84	888.34	6.75
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
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
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
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
HE 280 C	145.4	295.0	284	14.5	25.5	24	185.17	28,807	1,953.02	2,225.23	12.47	9,750.24	686.64	1,047.43	7.26
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
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
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
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
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
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
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
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
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
HE 300 C	186.0	340.0	305	16.0	30.5	27	236.95	48,711	2,865.35	3,274.04	14.34	14,446.19	947.29	1,445.28	7.81
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

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Technical data of sections HE

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
HE 650 x 258	258.7	660.0	302	18.0	36.0	27	329.54	247,585	7,502.58	8,520.26	27.41	16,570.48	1,097.38	1,698.72	7.09
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
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
HE 650 x 407	407.3	696.0	314	29.5	54.0	27	518.84	405,425	11,650.14	13,615.90	27.95	28,017.65	1,784.56	2,803.04	7.35
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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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
HE 900 x 391	390.7	922.0	307	25.0	46.0	30	497.67	674,346	14,627.90	16,992.08	36.81	22,322.07	1,454.21	2,312.27	6.70
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
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
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
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
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
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

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Technical data of sections HE

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
HE 1000 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
HE 1000 x 409	409.2	1,020.0	306	25.0	46.0	30	521.25	850,829	16,682.92	19,445.88	40.40	22,118.76	1,445.67	2,313.48	6.51
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
HE 1000 x 438	436.7	1,026.0	305	26.9	49.0	30	556.26	909,177	17,722.75	20,746.19	40.43	23,355.32	1,531.50	2,462.57	6.48
HE 1000 x 488	488.3	1,036.0	311	30.0	54.0	30	622.01	1,026,512	19,816.83	23,304.05	40.62	27,319.83	1,756.90	2,837.05	6.63
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
HE 1000 x 579	578.6	1,056.0	316	35.0	64.0	30	737.01	1,245,718	23,593.14	27,951.03	41.11	34,037.38	2,154.26	3,498.31	6.80
HE 1000 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

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Technical data of sections HL

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Designation	G kg/m	Dimensions					I cm ²	Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm		Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
HL 920 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
HL 920 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
HL 920 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
HL 920 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
HL 920 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
HL 920 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
HL 920 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
HL 920 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
HL 920 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
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
HL 920 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
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
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
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
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
HL 1000 x 443	442.5	1,012.0	402	23.6	41.9	30	563.66	966,512	19,101.03	21,776.88	41.41	45,497.64	2,263.56	3,529.16	8.98
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
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
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
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
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
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
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

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Technical data of sections HL

European extra wide flange beams

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm2	Iy cm4	Wely cm3	Wply cm3	Iy cm	Iz cm4	Welz cm3	Wplz cm3	Iz cm
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
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
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
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
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
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
HL 1100 x 548	551.5	1,128.0	407	28.0	50.0	30	702.57	1,456,640	25,826.95	29,726.89	45.53	56,406.22	2,771.80	4,358.72	8.96
HL 1100 x 607	610.3	1,138.0	410	31.0	55.0	30	777.41	1,624,100	28,543.06	33,003.83	45.71	63,473.31	3,096.26	4,886.90	9.04

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Technical data of sections HD

European wide flange columns

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Designation	G kg/m	Dimensions						Section properties							
		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
HD 260 x 54.1	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
HD 260 x 68.2	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
HD 260 x 93	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
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
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
HD 260 x 172	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
HD 320 x 74.2	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
HD 320 x 97.6	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
HD 320 x 127	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
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
HD 320 x 198	198.1	343.0	306	18.0	32.0	27	252.32	51,896	3,026.01	3,479.15	14.34	15,310.69	1,000.70	1,530.19	7.79
HD 320 x 245	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
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
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
HD 360 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
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
HD 360 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
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
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
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
HD 400 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

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Technical data of sections HD

European wide flange columns

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
HD 400 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
HD 400 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
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
HD 400 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
HD 400 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
HD 400 x 744	744.2	498.0	432	55.6	88.9	15	948.06	342,121	13,739.80	17,166.83	19.00	119,931.82	5,552.40	8,548.92	11.25
HD 400 x 818	819.0	514.0	437	60.5	97.0	15	1,043.31	392,191	15,260.35	19,255.28	19.39	135,528.90	6,202.70	9,561.31	11.40
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
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
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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Technical data of sections HP

Wide flange bearing piles

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
HP 250 x 85	85.4	254.0	260	14.4	14.4	13	108.76	12,305	968.90	1,095.55	10.64	4,225.41	325.03	499.86	6.23
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
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
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
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
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
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
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
HP 305 x 132	131.6	313.7	314	18.3	18.3	15	167.62	28,710	1,830.41	2,075.53	13.09	9,459.97	602.55	927.84	7.51
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
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
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
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
HP 310 x 79	78.3	299.0	306	11.0	11.0	15	99.72	16,268	1,088.16	1,206.52	12.77	5,257.72	343.64	525.09	7.26
HP 310 x 93	93.3	303.0	308	13.1	13.1	15	118.89	19,634	1,295.97	1,446.70	12.85	6,386.52	414.71	635.15	7.33

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Technical data of sections HP

Wide flange bearing piles

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Designation	G kg/m	Dimensions						Section properties							
		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
HP 310 x 110	110.4	308.0	310	15.4	15.5	15	140.69	23,655	1,536.04	1,726.98	12.97	7,706.95	497.22	763.33	7.40
HP 310 x 125	124.6	312.0	312	17.4	17.4	15	158.74	27,027	1,732.50	1,959.71	13.05	8,822.81	565.56	870.20	7.46
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
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
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
HP 320 x 117	117.3	311.0	308	16.0	16.0	27	149.46	25,476	1,638.33	1,848.68	13.06	7,814.94	507.46	785.56	7.23
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
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
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
HP 360 x 108	108.1	346.0	370	12.8	12.8	15	137.66	30,287	1,750.69	1,936.84	14.83	10,813.56	584.52	891.17	8.86
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
HP 360 x 132	132.0	351.0	373	15.6	15.6	15	168.20	37,478	2,135.50	2,380.73	14.93	13,505.40	724.15	1,106.82	8.96
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
HP 360 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
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
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
HP 360 x 180	180.2	362.9	379	21.1	21.1	15	229.51	53,036	2,922.90	3,305.56	15.20	19,143.54	1,010.75	1,552.28	9.13
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
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
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
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
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

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Technical data of sections HP

Wide flange bearing piles

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Designation	G kg/m	Dimensions						Section properties							
		H mm	B mm	Tw mm	Tf mm	R mm	I cm2	Strong axis				Weak axis			
								Iy cm4	Wely cm3	Wply cm3	Iy cm	Iz cm4	Welz cm3	Wplz cm3	Iz cm
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
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
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
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
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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Technical data of sections HTM

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Designation	G kg/m	Dimensions						Section properties							
		H mm	B mm	Tw mm	Tf mm	R mm	I cm2	Strong axis				Weak axis			
								Iy cm4	Wely cm3	Wply cm3	Iy cm	Iz cm4	Welz cm3	Wplz cm3	Iz cm
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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Technical data of sections UPE

Channels with parallel flanges

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
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
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
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
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
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

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Technical data of sections UPE

Channels with parallel flanges

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Designation	G kg/m	Dimensions						Section properties							
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
								I _y cm ⁴	W _{ely} cm ³	W _{ply} cm ³	I _y cm	I _z cm ⁴	W _{elz} cm ³	W _{plz} cm ³	I _z cm
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
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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Technical data of sections UAP

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm2	Iy cm4	Wely cm3	Wply cm3	Iy cm	Iz cm4	Welz cm3	Wplz cm3	Iz cm
UAP 80	8.4	80.0	45	5.0	8.0	8	10.67	107	26.78	31.87	3.17	21.33	7.38	13.64	141.00
UAP 100	10.5	100.0	50	5.5	8.5	9	13.38	210	41.90	49.59	3.96	32.83	9.95	18.47	1.57
UAP 130	13.7	130.0	55	6.0	9.5	10	17.50	460	70.70	83.51	5.12	51.34	13.78	25.55	1.71
UAP 150	17.9	150.0	65	7.0	10.3	10	22.84	796	106.10	125.30	5.90	93.25	20.97	38.78	2.02
UAP 175	21.2	175.0	70	7.5	10.8	11	27.06	1,270	145.10	171.50	6.85	126.40	25.92	47.47	2.16
UAP 200	25.1	200.0	75	8.0	11.5	12	31.98	1,946	194.60	230.10	7.80	169.70	32.13	58.29	2.30
UAP 220	28.5	220.0	80	8.0	12.5	13	36.27	2,710	246.40	289.90	8.64	222.30	39.68	72.56	2.48
UAP 250	34.4	250.0	85	9.0	13.5	14	43.80	4,136	330.90	391.80	9.72	295.40	48.87	87.65	2.60
UAP 300	46.0	300.0	100	9.5	16.0	16	58.56	8,170	544.70	639.30	11.81	562.10	79.88	145.80	3.10

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Technical data of sections UPN

Channels with unparallel flanges

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
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
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
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
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
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

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Technical data of sections UPN

Channels with unparallel flanges

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Designation	G kg/m	Dimensions						Section properties							
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Strong axis				Weak axis			
								I _y cm ⁴	W _{ely} cm ³	W _{ply} cm ³	I _y cm	I _z cm ⁴	W _{elz} cm ³	W _{pz} cm ³	I _z cm
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
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
UPN 380	63.1	380.0	102	13.5	16.0	16	80.40	15,760	829.00	1,014.00	14.00	615.00	78.70	148.00	2.77
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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Technical data of sections PFC

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Designation	G kg/m	Dimensions					I cm ²	Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm		Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
PFC 150 x 75 x 18	17.9	150.0	75	5.5	10.0	12	22.80	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
C 200 x 17.1	17.0	203.0	57	5.6	9.9	0	21.70	1,340	132.00	156.00	7.86	53.80	12.60	27.60	1.57
C 200 x 20.5	20.4	203.0	59	7.7	9.9	0	26.00	1,490	147.00	177.00	7.57	62.00	13.70	30.00	1.54
C 200 x 27.9	27.9	203.0	64	12.4	9.9	0	35.60	1,820	179.00	226.00	7.15	81.70	16.40	35.90	1.51
C 250 x 22.8	22.6	254.0	65	6.1	11.1	0	28.80	2,770	218.00	257.00	9.81	91.20	18.50	40.30	1.78
C 250 x 30	29.7	254.0	69	9.6	11.1	0	37.80	3,260	257.00	315.00	9.29	114.00	21.20	46.50	1.74
C 250 x 37	35.7	254.0	73	13.4	11.1	0	45.50	3,790	298.00	377.00	8.93	138.00	24.00	52.60	1.70
C 250 x 45	44.5	254.0	76	17.1	11.1	0	56.70	4,270	336.00	434.00	8.68	158.00	26.50	57.40	1.67
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
C 310 x 37	37.1	305.0	77	9.8	12.7	0	47.20	5,970	391.00	477.00	11.20	183.00	30.50	66.00	1.97
C 310 x 45	44.7	305.0	80	13.0	12.7	0	56.90	6,720	441.00	551.00	10.90	209.00	33.20	72.10	1.92
C 380 x 50.4	50.5	381.0	86	10.2	16.5	0	64.30	13,100	688.00	825.00	14.30	334.00	50.50	107.00	2.28
C 380 x 60	59.4	381.0	89	13.2	16.5	0	75.70	14,400	756.00	934.00	13.80	379.00	54.70	115.00	2.24
C 380 x 74	74.4	381.0	94	18.2	16.5	0	94.80	16,700	877.00	1,120.00	13.30	454.00	61.50	130.00	2.19

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Technical data of sections W

American wide flange beams

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Designation	G kg/m	Dimensions						Section properties							
		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
W 100 x 100 x 19.3	19.4	106.0	103	7.1	8.8	6	24.71	476	89.79	103.29	4.39	160.61	31.19	47.94	2.55
W 130 x 130 x 23.8	23.8	127.0	127	6.1	9.1	8	30.30	886	139.45	157.20	5.41	311.02	48.98	74.67	3.20
W 130 x 130 x 28.1	28.3	131.0	128	6.9	10.9	8	35.99	1,099	167.79	191.03	5.53	381.45	59.60	90.88	3.26
W 150 x 100 x 13.5	13.6	150.0	100	4.3	5.5	6	17.29	685	91.35	102.35	6.29	91.80	18.36	28.25	2.30
W 150 x 100 x 18	17.9	153.0	102	5.8	7.1	6	22.84	915	119.61	135.69	6.33	125.86	24.68	38.23	2.35
W 150 x 100 x 24	24.0	160.0	102	6.6	10.3	6	30.52	1,343	167.88	191.45	6.63	182.58	35.80	55.24	2.45
W 150 x 150 x 22.5	22.3	152.0	152	5.8	6.6	6	28.42	1,205	158.55	175.90	6.51	386.58	50.87	77.54	3.69
W 150 x 150 x 29.8	29.8	157.0	153	6.6	9.3	6	37.90	1,714	218.34	243.86	6.72	555.55	72.62	110.50	3.83
W 150 x 150 x 37.1	37.1	162.0	154	8.1	11.6	6	47.28	2,219	273.95	309.79	6.85	706.81	91.79	140.00	3.87
W 200 x 100 x 15	15.0	200.0	100	4.3	5.2	8	19.10	1,279	127.90	145.05	8.18	86.89	17.38	27.09	2.13
W 200 x 100 x 19.3	19.5	203.0	102	5.8	6.5	8	24.83	1,660	163.55	187.74	8.18	115.41	22.63	35.67	2.16
W 200 x 100 x 22.5	22.5	206.0	102	6.2	8.0	8	28.65	2,003	194.47	222.64	8.36	142.02	27.85	43.71	2.23
W 200 x 135 x 21	21.3	203.0	133	5.0	6.4	8	27.08	1,980	195.07	217.69	8.55	251.26	37.78	58.03	3.05
W 200 x 135 x 26.6	26.6	207.0	133	5.8	8.4	8	33.93	2,585	249.76	279.46	8.73	329.81	49.60	76.15	3.12
W 200 x 135 x 31.3	31.4	210.0	134	6.4	10.2	8	40.02	3,142	299.24	335.71	8.86	409.60	61.13	93.79	3.20
W 200 x 165 x 35.9	35.9	201.0	165	6.2	10.2	10	45.72	3,437	341.99	379.23	8.67	764.30	92.64	141.04	4.09
W 200 x 165 x 41.7	41.7	205.0	166	7.2	11.8	10	53.10	4,086	398.63	445.26	8.77	900.50	108.49	165.43	4.12
W 200 x 200 x 46.1	46.0	203.0	203	7.2	11.0	10	58.55	4,543	447.59	495.28	8.81	1,534.55	151.19	229.50	5.12
W 200 x 200 x 52	52.2	206.0	204	7.9	12.6	10	66.55	5,270	511.65	569.24	8.90	1,783.93	174.90	265.53	5.18
W 200 x 200 x 59	59.3	210.0	205	9.1	14.2	10	75.60	6,111	582.00	652.60	8.99	2,040.48	199.07	302.72	5.20
W 200 x 200 x 71	71.5	216.0	206	10.2	17.4	10	91.03	7,660	709.26	803.17	9.17	2,537.22	246.33	374.54	5.28

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Technical data of sections W

American wide flange beams

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Designation	G kg/m	Dimensions					I cm ²	Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm		Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
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
W 200 x 200 x 100	99.5	229.0	210	14.5	23.7	10	126.73	11,326	989.17	1,148.93	9.45	3,663.51	348.91	532.95	5.38
W 250 x 100 x 17.9	17.9	251.0	101	4.8	5.3	8	22.79	2,249	179.20	207.38	9.93	91.34	18.09	28.65	2.00
W 250 x 100 x 22.3	22.4	254.0	102	5.8	6.9	8	28.56	2,896	228.03	264.07	10.07	122.56	24.03	38.17	2.07
W 250 x 100 x 25.3	25.4	257.0	102	6.1	8.4	8	32.34	3,430	266.93	307.48	10.30	149.17	29.25	46.20	2.15
W 250 x 100 x 28.4	28.5	260.0	102	6.4	10.0	8	36.31	4,003	307.92	353.65	10.50	177.54	34.81	54.75	2.21
W 250 x 145 x 24	24.4	253.0	145	5.0	6.4	8	31.12	3,477	274.86	307.46	10.57	325.55	44.90	69.02	3.23
W 250 x 145 x 32.7	32.8	258.0	146	6.1	9.1	8	41.75	4,895	379.46	424.87	10.83	472.60	64.74	99.48	3.36
W 250 x 145 x 38.5	38.7	262.0	147	6.6	11.2	8	49.29	6,015	459.16	514.12	11.05	593.68	80.77	123.90	3.47
W 250 x 145 x 44.8	45.0	266.0	148	7.6	13.0	8	57.27	7,115	534.96	602.70	11.15	703.45	95.06	146.15	3.50
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
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
W 250 x 250 x 89	89.6	260.0	256	10.7	17.3	13	114.15	14,262	1,097.08	1,226.70	11.18	4,840.81	378.19	574.54	6.51
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
W 250 x 250 x 115	114.8	269.0	259	13.5	22.1	13	146.28	18,945	1,408.55	1,599.67	11.38	6,405.46	494.63	752.89	6.62
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
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
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
W 310 x 100 x 21	21.1	303.0	101	5.1	5.7	8	26.94	3,712	245.02	287.48	11.74	98.32	19.47	31.21	1.91
W 310 x 100 x 23.8	23.9	305.0	101	5.6	6.7	8	30.41	4,282	280.79	328.81	11.87	115.61	22.89	36.71	1.95
W 310 x 100 x 28.3	28.4	309.0	102	6.0	8.9	8	36.18	5,437	351.91	407.53	12.26	158.08	31.00	49.18	2.09
W 310 x 100 x 32.7	32.8	313.0	102	6.6	10.8	8	41.81	6,507	415.78	480.92	12.48	191.87	37.62	59.63	2.14
W 310 x 165 x 31	30.9	306.0	164	5.0	7.4	8	39.38	6,554	428.37	476.28	12.90	544.43	66.39	101.57	3.72

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Technical data of sections W

American wide flange beams

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Designation	G kg/m	Dimensions						Section properties							
		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
W 310 x 165 x 38.7	38.8	310.0	165	5.8	9.7	8	49.41	8,519	549.61	610.96	13.13	726.83	88.10	134.74	3.84
W 310 x 165 x 44.5	44.7	313.0	166	6.6	11.2	8	56.91	9,934	634.76	708.33	13.21	854.72	102.98	157.76	3.88
W 310 x 165 x 52	52.4	317.0	167	7.6	13.2	8	66.72	11,847	747.44	838.03	13.33	1,025.89	122.86	188.57	3.92
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
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
W 310 x 310 x 117	117.5	314.0	307	11.9	18.7	15	149.67	27,515	1,752.55	1,948.97	13.56	9,023.61	587.86	892.82	7.76
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
W 310 x 310 x 143	143.1	323.0	309	14.0	22.9	15	182.26	34,764	2,152.57	2,418.61	13.81	11,269.11	729.39	1,108.84	7.86
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
W 310 x 310 x 176	175.7	337.0	308	13.4	30.0	15	223.85	46,408	2,754.18	3,119.83	14.40	14,616.72	949.14	1,437.34	8.08
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
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
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
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
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
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
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
W 360 x 130 x 32.9	32.7	349.0	127	5.8	8.5	10	41.70	8,258	473.24	541.45	14.07	290.98	45.82	71.78	2.64
W 360 x 130 x 39	39.1	353.0	128	6.5	10.7	10	49.80	10,231	579.66	661.54	14.33	375.04	58.60	91.63	2.74
W 360 x 170 x 44	45.0	352.0	171	6.9	9.8	10	57.31	12,157	690.74	778.13	14.56	817.92	95.66	147.73	3.78
W 360 x 170 x 51	50.6	355.0	171	7.2	11.6	10	64.42	14,122	795.61	893.38	14.81	968.06	113.22	174.40	3.88
W 360 x 170 x 57.8	56.6	358.0	172	7.9	13.1	10	72.14	16,043	896.26	1,008.61	14.91	1,112.70	129.38	199.48	3.93
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
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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Technical data of sections W

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
W 360 x 410 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
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
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
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
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
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
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
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
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
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
W 360 x 410 x 744	744.2	498.0	432	55.6	88.9	15	948.06	342,121	13,739.80	17,166.83	19.00	119,931.82	5,552.40	8,548.92	11.25
W 360 x 410 x 818	819.0	514.0	437	60.5	97.0	15	1,043.31	392,191	15,260.35	19,255.28	19.39	135,528.90	6,202.70	9,561.31	11.40
W 360 x 410 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
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
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
W 410 x 140 x 38.8	39.2	399.0	140	6.4	8.8	10	49.91	12,645	633.83	729.65	15.92	403.57	57.65	90.61	2.84
W 410 x 140 x 46.1	46.2	403.0	140	7.0	11.2	10	58.86	15,558	772.11	883.99	16.26	513.61	73.37	114.92	2.95

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Technical data of sections W

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Designation	G kg/m	Dimensions						Section properties							
		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
W 410 x 180 x 53	53.4	403.0	177	7.5	10.9	10	68.03	18,601	923.13	1,045.11	16.54	1,009.06	114.02	176.62	3.85
W 410 x 180 x 60	59.5	407.0	178	7.7	12.8	10	75.79	21,574	1,060.15	1,194.35	16.87	1,204.95	135.39	208.95	3.99
W 410 x 180 x 67	67.5	410.0	179	8.8	14.4	10	85.96	24,545	1,197.32	1,355.56	16.90	1,379.06	154.08	238.65	4.01
W 410 x 180 x 75	74.9	413.0	180	9.7	16.0	10	95.42	27,483	1,330.90	1,511.54	16.97	1,558.56	173.17	268.77	4.04
W 410 x 180 x 85	85.0	417.0	181	10.9	18.2	10	108.23	31,525	1,511.99	1,724.61	17.07	1,803.33	199.26	310.09	4.08
W 460 x 150 x 52	52.0	450.0	152	7.6	10.8	10	66.25	21,201	942.27	1,087.89	17.89	634.04	83.43	131.47	3.09
W 460 x 150 x 60	59.5	455.0	153	8.0	13.3	10	75.83	25,484	1,120.18	1,284.07	18.33	796.11	104.07	163.06	3.24
W 460 x 150 x 68	68.5	459.0	154	9.1	15.4	10	87.26	29,683	1,293.38	1,487.37	18.44	940.53	122.15	192.06	3.28
W 460 x 190 x 61	60.0	450.0	189	8.1	10.8	10	76.38	25,384	1,128.18	1,286.34	18.23	1,217.50	128.84	200.46	3.99
W 460 x 190 x 67	67.2	454.0	190	8.5	12.7	10	85.55	29,466	1,298.06	1,473.42	18.56	1,454.41	153.10	237.53	4.12
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
W 460 x 190 x 82	81.9	460.0	191	9.9	16.0	10	104.35	36,989	1,608.22	1,828.43	18.83	1,862.03	194.98	302.95	4.22
W 460 x 190 x 89	89.3	463.0	192	10.5	17.7	10	113.72	40,937	1,768.34	2,011.43	18.97	2,092.61	217.98	338.68	4.29
W 460 x 190 x 97	96.5	466.0	193	11.4	19.0	10	122.99	44,490	1,909.44	2,179.41	19.02	2,282.39	236.52	368.45	4.31
W 460 x 190 x 106	105.7	469.0	194	12.6	20.6	10	134.69	48,810	2,081.45	2,386.65	19.04	2,514.60	259.24	405.36	4.32
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
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
W 460 x 280 x 144	144.5	472.0	283	13.6	22.1	10	184.13	72,605	3,076.48	3,454.23	19.86	8,358.04	590.67	905.54	6.74
W 460 x 280 x 158	157.7	476.0	284	15.0	23.9	10	200.84	79,631	3,345.84	3,774.45	19.91	9,137.23	643.47	988.76	6.74
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
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
W 460 x 280 x 213	212.7	495.0	285	18.5	33.5	10	270.99	114,323	4,619.11	5,271.58	20.54	12,948.68	908.68	1,398.13	6.91
W 530 x 210 x 82	82.3	528.0	209	9.6	13.2	13	104.78	47,553	1,801.25	2,060.05	21.30	2,013.10	192.64	300.97	4.38

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Technical data of sections W

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Designation	G kg/m	Dimensions						Section properties							
		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
W 530 x 210 x 92	92.5	533.0	209	10.2	15.6	13	117.84	55,287	2,074.56	2,365.02	21.66	2,379.08	227.66	354.93	4.49
W 530 x 210 x 101	101.5	537.0	210	10.9	17.4	13	129.27	61,743	2,299.55	2,621.90	21.85	2,692.21	256.40	399.80	4.56
W 530 x 210 x 109	109.1	539.0	211	11.6	18.8	13	138.95	66,772	2,477.63	2,828.56	21.92	2,951.14	279.73	436.63	4.61
W 530 x 210 x 123	123.3	544.0	212	13.1	21.2	13	157.05	76,123	2,798.64	3,209.65	22.02	3,377.39	318.62	499.30	4.64
W 530 x 210 x 138	138.3	549.0	214	14.7	23.6	13	176.22	86,125	3,137.52	3,614.85	22.11	3,869.70	361.65	568.99	4.69
W 610 x 180 x 92	92.3	603.0	179	10.9	15.0	13	117.61	64,682	2,145.34	2,514.63	23.45	1,441.12	161.02	258.54	3.50
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
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
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
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
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
W 610 x 325 x 155	154.9	611.0	324	12.7	19.0	13	197.34	128,987	4,222.16	4,727.95	25.57	10,781.65	665.53	1,021.72	7.39
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
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
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
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
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
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
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
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
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
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
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

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Technical data of sections W

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
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
W 760 x 265 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
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
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
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
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
W 760 x 385 x 532	536.5	833.0	393	32.5	56.9	17	683.46	778,556	18,692.82	21,645.87	33.75	57,778.34	2,940.37	4,588.97	9.19
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
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
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
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
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
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
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
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

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Technical data of sections W

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
W 1000 x 300 x 222	222.0	970.0	300	16.0	21.1	30	282.78	407,667	8,405.51	9,803.17	37.97	9,545.80	636.39	1,020.25	5.81
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
W 1000 x 300 x 272	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
W 1000 x 300 x 314	314.3	1,000.0	300	19.1	35.9	30	400.42	644,211	12,884.22	14,850.82	40.11	16,231.74	1,082.12	1,712.72	6.37
W 1000 x 300 x 350	349.4	1,008.0	302	21.1	40.0	30	445.14	722,965	14,344.54	16,589.64	40.30	18,460.48	1,222.55	1,940.71	6.44
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
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
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

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Technical data of sections W

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Designation	G kg/m	Dimensions						Section properties							
		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
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
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
W 1000 x 400 x 296	296.4	982.0	400	16.5	27.1	30	377.62	620,314	12,633.69	14,255.35	40.53	28,961.10	1,448.06	2,242.71	8.76
W 1000 x 400 x 321	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
W 1000 x 400 x 371	371.2	1,000.0	400	19.0	36.1	30	472.81	813,732	16,274.64	18,360.96	41.49	38,582.41	1,929.12	2,984.27	9.03
W 1000 x 400 x 412	412.2	1,008.0	402	21.1	40.0	30	525.14	910,477	18,065.02	20,461.64	41.64	43,407.95	2,159.60	3,348.71	9.09
W 1000 x 400 x 443	442.5	1,012.0	402	23.6	41.9	30	563.66	966,512	19,101.03	21,776.88	41.41	45,497.64	2,263.56	3,529.16	8.98
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
W 1000 x 400 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
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
W 1000 x 400 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
W 1000 x 400 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
W 1000 x 400 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
W 1000 x 400 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
W 1100 x 400 x 343	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
W 1100 x 400 x 390	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
W 1100 x 400 x 433	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
W 1100 x 400 x 499	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
W 1000 x 400 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

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Technical data of sections WTM

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm2	Iy cm4	Wely cm3	Wply cm3	Iy cm	Iz cm4	Welz cm3	Wplz cm3	Iz cm
WTM 310 x 310 x 176	175.8	337.0	308	14.5	29.5	15	223.96	46,040	2,732.34	3,100.31	14.34	14,374.96	933.44	1,415.91	8.01

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Technical data of sections UB

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Designation	G kg/m	Dimensions						Section properties							
		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
UB 152 x 89 x 16	16.0	152.4	89	4.5	7.7	8	20.32	834	109.49	123.25	6.41	89.75	20.24	31.18	2.10
UB 178 x 102 x 19	19.0	177.8	101	4.8	7.9	8	24.26	1,356	152.53	171.25	7.48	136.71	27.02	41.59	2.37
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
UB 203 x 133 x 25	25.1	203.2	133	5.7	7.8	8	31.97	2,340	230.31	257.73	8.56	307.63	46.19	70.94	3.10
UB 203 x 133 x 30	30.0	206.8	134	6.4	9.6	8	38.21	2,896	280.08	314.36	8.71	384.66	57.45	88.22	3.17
UB 254 x 102 x 22	22.0	254.0	102	5.7	6.8	8	28.02	2,841	223.70	259.01	10.07	119.35	23.49	37.28	2.06
UB 254 x 102 x 25	25.2	257.2	102	6.0	8.4	8	32.04	3,415	265.55	305.52	10.32	148.69	29.18	46.01	2.15
UB 254 x 102 x 28	28.3	260.4	102	6.3	10.0	8	36.08	4,005	307.60	352.80	10.54	178.54	34.94	54.85	2.22
UB 254 x 146 x 31	31.1	251.4	146	6.0	8.6	8	39.68	4,413	351.07	393.06	10.55	447.53	61.26	94.13	3.36
UB 254 x 146 x 37	37.0	256.0	146	6.3	10.9	8	47.17	5,537	432.58	483.23	10.83	570.65	77.96	119.37	3.48
UB 254 x 146 x 43	43.0	259.6	147	7.2	12.7	8	54.77	6,544	504.16	566.33	10.93	677.37	91.97	141.08	3.52
UB 305 x 102 x 25	24.8	305.1	102	5.8	7.0	8	31.60	4,455	292.04	342.01	11.87	122.95	24.20	38.81	1.97
UB 305 x 102 x 28	28.2	308.7	102	6.0	8.8	8	35.88	5,366	347.65	402.90	12.23	155.37	30.52	48.45	2.08
UB 305 x 102 x 33	32.8	312.7	102	6.6	10.8	8	41.83	6,501	415.80	480.83	12.47	194.11	37.91	60.04	2.15
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
UB 305 x 165 x 46	46.1	306.6	166	6.7	11.8	9	58.75	9,899	645.73	720.05	12.98	895.67	108.11	165.53	3.90
UB 305 x 165 x 54	54.0	310.4	167	7.9	13.7	9	68.77	11,696	753.61	846.07	13.04	1,062.97	127.38	195.63	3.93
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
UB 356 x 127 x 39	39.1	353.4	126	6.6	10.7	10	49.77	10,172	575.66	658.52	14.30	357.84	56.80	89.05	2.68

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Technical data of sections UB

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Designation	G kg/m	Dimensions						Section properties							
		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
UB 356 x 171 x 45	45.0	351.4	171	7.0	9.7	10	57.33	12,066	686.74	774.63	14.51	811.07	94.81	146.57	3.76
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
UB 356 x 171 x 57	57.0	358.0	172	8.1	13.0	10	72.56	16,038	895.98	1,010.14	14.87	1,108.21	128.71	198.75	3.91
UB 356 x 171 x 67	67.1	363.4	173	9.1	15.7	10	85.49	19,463	1,071.16	1,210.86	15.09	1,362.08	157.28	242.97	3.99
UB 406 x 140 x 39	39.0	398.0	142	6.4	8.6	10	49.65	12,508	628.54	723.68	15.87	409.81	57.80	90.85	2.87
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
UB 406 x 178 x 54	54.1	402.6	178	7.7	10.9	10	68.95	18,722	930.05	1,054.64	16.48	1,021.20	114.94	178.29	3.85
UB 406 x 178 x 60	60.1	406.4	178	7.9	12.8	10	76.52	21,596	1,062.80	1,199.47	16.80	1,203.07	135.25	209.05	3.97
UB 406 x 178 x 67	67.1	409.4	179	8.8	14.3	10	85.54	24,331	1,188.62	1,346.03	16.87	1,364.94	152.68	236.55	3.99
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
UB 457 x 152 x 52	52.3	449.8	152	7.6	10.9	10	66.64	21,369	950.16	1,096.05	17.91	644.96	84.64	133.30	3.11
UB 457 x 152 x 60	59.8	454.6	153	8.1	13.3	10	76.23	25,500	1,121.87	1,287.27	18.29	794.65	103.94	163.05	3.23
UB 457 x 152 x 67	67.2	458.0	154	9.0	15.0	10	85.55	28,927	1,263.19	1,453.08	18.39	912.56	118.67	186.68	3.27
UB 457 x 152 x 74	74.2	462.0	154	9.6	17.0	10	94.48	32,674	1,414.46	1,626.59	18.60	1,046.53	135.56	213.13	3.33
UB 457 x 152 x 82	82.1	465.8	155	10.5	18.9	10	104.54	36,589	1,571.02	1,811.50	18.71	1,184.51	152.54	240.39	3.37
UB 457 x 191 x 67	67.1	453.4	190	8.5	12.7	10	85.51	29,380	1,295.99	1,471.03	18.54	1,452.14	152.94	237.31	4.12
UB 457 x 191 x 74	74.3	457.0	190	9.0	14.5	10	94.63	33,319	1,458.16	1,652.73	18.76	1,671.13	175.54	272.10	4.20
UB 457 x 191 x 82	82.0	460.0	191	9.9	16.0	10	104.48	37,051	1,610.91	1,831.29	18.83	1,870.83	195.59	303.90	4.23
UB 457 x 191 x 89	89.3	463.4	192	10.5	17.7	10	113.77	41,015	1,770.18	2,013.65	18.99	2,089.39	217.76	338.38	4.29
UB 457 x 191 x 98	98.3	467.2	193	11.4	19.6	10	125.26	45,727	1,957.49	2,232.41	19.11	2,347.02	243.47	378.90	4.33
UB 533 x 210 x 82	82.2	528.3	209	9.6	13.2	13	104.69	47,539	1,799.70	2,058.63	21.31	2,007.28	192.27	300.37	4.38
UB 533 x 210 x 92	92.1	533.1	209	10.1	15.6	13	117.38	55,227	2,071.92	2,360.10	21.69	2,389.11	228.30	355.58	4.51

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Technical data of sections UB

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Designation	G kg/m	Dimensions						Section properties							
		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
UB 533 x 210 x 101	101.0	536.7	210	10.8	17.4	13	128.67	61,519	2,292.49	2,612.03	21.87	2,691.98	256.38	399.45	4.57
UB 533 x 210 x 109	109.0	539.5	211	11.6	18.8	13	138.87	66,822	2,477.18	2,828.44	21.94	2,942.71	279.19	435.79	4.60
UB 533 x 210 x 122	122.0	544.5	212	12.7	21.3	13	155.40	76,043	2,793.13	3,195.60	22.12	3,387.52	319.73	499.71	4.67
UB 610 x 229 x 101	101.2	602.6	228	10.5	14.8	13	128.92	75,780	2,515.10	2,881.14	24.24	2,914.73	256.13	400.25	4.75
UB 610 x 229 x 113	113.0	607.6	228	11.1	17.3	13	143.95	87,319	2,874.23	3,280.82	24.63	3,434.01	300.96	469.26	4.88
UB 610 x 229 x 125	125.1	612.2	229	11.9	19.6	13	159.34	98,610	3,221.50	3,675.89	24.88	3,932.13	343.42	535.43	4.97
UB 610 x 229 x 140	139.9	617.2	230	13.1	22.1	13	178.20	111,777	3,622.07	4,142.09	25.05	4,505.25	391.42	611.45	5.03
UB 610 x 229 x 153	153.6	623.0	229	14.0	24.9	13	195.68	125,134	4,017.14	4,599.68	25.29	4,998.26	436.53	682.34	5.05
UB 610 x 305 x 149	149.2	612.4	305	11.8	19.7	17	190.04	125,876	4,110.91	4,593.59	25.74	9,307.58	610.73	937.28	7.00
UB 610 x 305 x 179	179.0	620.2	307	14.1	23.6	17	228.08	153,024	4,934.67	5,547.37	25.90	11,408.31	742.97	1,143.85	7.07
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
UB 686 x 254 x 125	125.2	677.9	253	11.7	16.2	15	159.48	117,992	3,481.10	3,994.17	27.20	4,382.93	346.48	542.40	5.24
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
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
UB 686 x 254 x 170	170.2	692.9	256	14.5	23.7	15	216.83	170,326	4,916.32	5,630.79	28.03	6,630.29	518.40	811.43	5.53
UB 762 x 267 x 134	133.8	750.0	264	12.0	15.5	17	170.46	150,525	4,014.00	4,639.65	29.72	4,766.04	361.06	568.29	5.29
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
UB 762 x 267 x 173	173.0	762.2	267	14.3	21.6	17	220.37	205,282	5,386.57	6,197.71	30.52	6,849.72	513.66	807.48	5.58
UB 762 x 267 x 197	196.8	769.8	268	15.6	25.4	17	250.65	239,957	6,234.27	7,166.62	30.94	8,174.73	610.05	958.60	5.71
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
UB 838 x 292 x 194	193.8	840.7	292	14.7	21.7	18	246.83	279,175	6,641.49	7,640.16	33.63	9,066.40	620.14	973.81	6.06

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Technical data of sections UB

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
UB 838 x 292 x 226	226.5	850.9	294	16.1	26.8	18	288.56	339,704	7,984.58	9,154.86	34.31	11,359.59	773.29	1,211.61	6.27
UB 914 x 305 x 201	200.9	903.0	303	15.1	20.2	19	255.92	325,254	7,203.85	8,351.30	35.65	9,422.81	621.35	981.98	6.07
UB 914 x 305 x 224	224.2	910.4	304	15.9	23.9	19	285.65	376,414	8,269.20	9,534.57	36.30	11,235.98	738.97	1,163.45	6.27
UB 914 x 305 x 253	253.4	918.4	306	17.3	27.9	19	322.83	436,305	9,501.42	10,942.06	36.76	13,301.11	870.78	1,370.55	6.42
UB 914 x 305 x 289	289.1	926.6	308	19.5	32.0	19	368.27	504,187	10,882.52	12,569.76	37.00	15,597.36	1,013.80	1,601.26	6.51
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
UB 914 x 419 x 388	388.0	921.0	421	21.4	36.6	24	494.22	719,635	15,627.25	17,665.33	38.16	45,438.43	2,161.16	3,340.90	9.59
UB 1016 x 305 x 222	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
UB 1016 x 305 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
UB 1016 x 305 x 272	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
UB 1016 x 305 x 314	314.3	1,000.0	300	19.1	35.9	30	400.42	644,211	12,884.22	14,850.82	40.11	16,231.74	1,082.12	1,712.72	6.37
UB 1016 x 305 x 349	349.4	1,008.0	302	21.1	40.0	30	445.14	722,965	14,344.54	16,589.64	40.30	18,460.48	1,222.55	1,940.71	6.44
UB 1016 x 305 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
UB 1016 x 305 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
UB 1016 x 305 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
UB 1016 x 305 x 487	487.0	1,036.0	309	30.0	54.1	30	620.41	1,022,494	19,739.27	23,223.80	40.60	26,850.01	1,737.86	2,808.30	6.58
UB 1016 x 305 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
UB 1016 x 305 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

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Technical data of sections UBP

British universal bearing piles with wide flanges

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Designation	G kg/m	Dimensions					I cm ²	Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm		Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
UBP 203 x 203 x 45	44.9	200.2	206	9.5	9.5	10	57.23	4,100	409.59	458.88	8.46	1,383.88	134.42	206.09	4.92
UBP 203 x 203 x 54	53.9	204.0	208	11.3	11.4	10	68.72	5,027	492.84	556.68	8.55	1,705.18	164.20	252.39	4.98
UBP 254 x 254 x 63	63.0	247.1	257	10.6	10.7	13	80.22	8,860	717.12	799.29	10.51	3,016.26	235.09	359.73	6.13
UBP 254 x 254 x 71	71.0	249.7	258	12.0	12.0	13	90.39	10,071	806.65	903.97	10.56	3,439.11	266.60	408.73	6.17
UBP 254 x 254 x 85	85.1	254.3	260	14.4	14.3	13	108.36	12,284	966.10	1,092.31	10.65	4,215.40	323.76	497.92	6.24
UBP 305 x 305 x 79	78.9	299.3	306	11.0	11.1	15	100.49	16,444	1,098.83	1,218.15	12.79	5,326.35	347.67	531.19	7.28
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
UBP 305 x 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
UBP 305 x 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
UBP 305 x 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
UBP 305 x 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
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
UBP 305 x 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
UBP 356 x 368 x 83	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
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
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
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
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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Technical data of sections UC

British universal columns

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Designation	G kg/m	Dimensions						Section properties							
		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
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
UC 152 x 152 x 30	30.0	157.6	153	6.5	9.4	8	38.26	1,748	221.83	247.66	6.76	560.46	73.31	111.59	3.83
UC 152 x 152 x 37	37.0	161.8	154	8.0	11.5	8	47.11	2,211	273.30	308.76	6.85	706.25	91.48	139.58	3.87
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
UC 203 x 203 x 52	52.0	206.2	204	7.9	12.5	10	66.28	5,259	510.09	567.39	8.91	1,777.62	174.02	264.25	5.18
UC 203 x 203 x 60	60.0	209.6	206	9.4	14.2	10	76.37	6,125	584.45	656.07	8.96	2,064.60	200.64	305.34	5.20
UC 203 x 203 x 71	71.0	215.8	206	10.0	17.3	10	90.43	7,618	706.02	798.76	9.18	2,537.29	245.86	373.68	5.30
UC 203 x 203 x 86	86.1	222.2	209	12.7	20.5	10	109.64	9,449	850.50	976.73	9.28	3,127.46	299.14	456.24	5.34
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
UC 254 x 254 x 89	88.9	260.3	256	10.3	17.3	13	113.31	14,268	1,096.27	1,223.86	11.22	4,857.48	379.05	575.31	6.55
UC 254 x 254 x 107	107.1	266.7	259	12.8	20.5	13	136.38	17,510	1,313.09	1,484.43	11.33	5,927.57	458.08	697.04	6.59
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
UC 254 x 254 x 167	167.1	289.1	265	19.2	31.7	13	212.86	29,998	2,075.27	2,423.67	11.87	9,869.90	744.34	1,137.27	6.81
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
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
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
UC 305 x 305 x 158	158.1	327.1	311	15.8	25.0	15	201.37	38,747	2,369.12	2,680.45	13.87	12,569.43	807.80	1,230.10	7.90
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
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
UC 305 x 305 x 283	282.9	365.3	322	26.8	44.1	15	360.43	78,872	4,318.20	5,105.20	14.79	24,634.85	1,529.17	2,342.16	8.27

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Technical data of sections UC

British universal columns

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm2	Iy cm4	Wely cm3	Wply cm3	Iy cm	Iz cm4	Welz cm3	Wplz cm3	Iz cm
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
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
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
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
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
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
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
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
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
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
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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Technical data of sections HJ

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Designation	G kg/m	Dimensions						Section properties							
		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
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
HJ 125 x 125 x 6.5 x 9	23.6	125.0	125	6.5	9.0	8	30.00	840	134.32	151.94	5.29	293.37	46.94	71.72	3.13
HJ 150 x 75 x 5 x 7	14.0	150.0	75	5.0	7.0	8	17.85	666	88.81	101.83	6.11	49.47	13.19	20.77	1.66
HJ 150 x 150 x 7 x 10	31.1	150.0	150	7.0	10.0	8	39.65	1,623	216.40	243.04	6.40	563.04	75.07	114.38	3.77
HJ 175 x 175 x 7.5 x 11	40.4	175.0	175	7.5	11.0	13	51.43	2,895	330.86	370.27	7.50	983.82	112.44	171.56	4.37
HJ 200 x 100 x 4.5 x 7	17.8	198.0	99	4.5	7.0	8	22.69	1,543	155.86	175.40	8.25	113.44	22.92	35.46	2.24
HJ 200 x 100 x 5.5 x 8	20.9	200.0	100	5.5	8.0	8	26.67	1,806	180.60	205.11	8.23	133.71	26.74	41.64	2.24
HJ 200 x 200 x 8 x 12	49.9	200.0	200	8.0	12.0	13	63.53	4,716	471.60	525.50	8.62	1,601.53	160.15	243.82	5.02
HJ 200 x 200 x 12 x 12	56.2	200.0	204	12.0	12.0	13	71.53	4,982	498.20	565.50	8.35	1,701.70	166.83	257.33	4.88
HJ 250 x 125 x 5 x 8	25.1	248.0	124	5.0	8.0	8	31.99	3,450	278.23	311.63	10.38	254.57	41.06	63.19	2.82
HJ 250 x 125 x 6 x 9	29.0	250.0	125	6.0	9.0	8	36.97	3,965	317.20	358.13	10.36	293.53	46.96	72.66	2.82
HJ 250 x 250 x 11 x 11	63.8	244.0	252	11.0	11.0	13	81.31	8,703	713.36	797.09	10.35	2,937.46	233.13	357.21	6.01
HJ 250 x 250 x 9 x 14	71.8	250.0	250	9.0	14.0	13	91.43	10,748	859.84	952.57	10.84	3,648.06	291.84	443.07	6.32
HJ 250 x 250 x 14 x 14	81.6	250.0	255	14.0	14.0	13	103.93	11,400	912.00	1,030.70	10.47	3,875.57	303.97	467.49	6.11
HJ 300 x 150 x 5.5 x 8	32.0	298.0	149	5.5	8.0	13	40.80	6,318	424.03	475.06	12.44	442.00	59.33	91.76	3.29
HJ 300 x 150 x 5.5 x 8	36.7	300.0	150	6.5	9.0	13	46.78	7,209	480.60	542.11	12.41	507.53	67.67	105.12	3.29
HJ 300 x 300 x 12 x 12	83.5	294.0	302	12.0	12.0	13	106.33	16,640	1,131.97	1,259.84	12.51	5,513.85	365.16	558.24	7.20
HJ 300 x 300 x 10 x 15	93.0	300.0	300	10.0	15.0	13	118.45	20,186	1,345.73	1,483.92	13.05	6,753.24	450.22	682.90	7.55

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Designation	G kg/m	Dimensions						Section properties							
		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
HJ 300 x 300 x 15 x 15	104.8	300.0	305	15.0	15.0	13	133.45	21,311	1,420.73	1,596.42	12.64	7,102.41	465.73	714.39	7.30
HJ 350 x 175 x 6 x 9	41.2	346.0	174	6.0	9.0	13	52.45	11,036	637.92	712.49	14.51	791.39	90.96	140.05	3.88
HJ 350 x 175 x 7 x 11	49.4	350.0	175	7.0	11.0	13	62.91	13,500	771.43	864.22	14.65	984.17	112.48	173.39	3.96
HJ 350 x 350 x 13 x 13	104.6	338.0	351	13.0	13.0	13	133.27	27,742	1,641.54	1,821.56	14.43	9,376.52	534.27	815.35	8.39
HJ 350 x 350 x 10 x 16	113.0	344.0	348	10.0	16.0	13	144.01	32,846	1,909.65	2,091.88	15.10	11,242.04	646.09	977.78	8.84
HJ 350 x 350 x 16 x 16	129.3	344.0	354	16.0	16.0	13	164.65	34,882	2,028.02	2,269.38	14.56	11,842.29	669.06	1,024.08	8.48
HJ 350 x 350 x 12 x 19	134.9	350.0	350	12.0	19.0	13	171.89	39,846	2,276.91	2,515.40	15.23	13,582.81	776.16	1,176.28	8.89
HJ 350 x 350 x 19 x 19	154.2	350.0	357	19.0	19.0	13	196.39	42,347	2,419.83	2,729.77	14.68	14,428.26	808.31	1,240.72	8.57
HJ 400 x 300 x 10 x 16	104.6	390.0	300	10.0	16.0	13	133.25	37,864	1,941.74	2,141.16	16.86	7,203.98	480.27	730.10	7.35
HJ 400 x 400 x 15 x 15	140.1	388.0	402	15.0	15.0	22	178.46	48,965	2,523.97	2,802.16	16.56	16,258.38	808.87	1,237.33	9.54
HJ 400 x 400 x 11 x 18	146.7	394.0	398	11.0	18.0	22	186.82	56,145	2,850.00	3,118.47	17.34	18,922.62	950.89	1,440.80	10.06
HJ 400 x 400 x 18 x 18	168.3	394.0	405	18.0	18.0	22	214.40	59,713	3,031.12	3,390.13	16.69	19,955.19	985.44	1,511.01	9.65
HJ 400 x 400 x 13 x 21	171.7	400.0	400	13.0	21.0	22	218.70	66,621	3,331.05	3,672.49	17.45	22,412.67	1,120.63	1,699.87	10.12
HJ 400 x 400 x 21 x 21	196.8	400.0	408	21.0	21.0	22	250.70	70,888	3,544.40	3,992.49	16.82	23,809.27	1,167.12	1,793.75	9.75
HJ 400 x 400 x 18 x 28	231.9	414.0	405	18.0	28.0	22	295.40	92,771	4,481.69	5,026.33	17.72	31,026.87	1,532.19	2,331.14	10.25
HJ 400 x 400 x 20 x 35	283.1	428.0	407	20.0	35.0	22	360.66	119,204	5,570.28	6,311.46	18.18	39,361.65	1,934.23	2,940.86	10.45
HJ 400 x 400 x 30 x 50	414.9	458.0	417	30.0	50.0	22	528.56	187,138	8,171.97	9,540.39	18.82	60,524.16	2,902.84	4,436.06	10.70
HJ 500 x 200 x 9 x 14	77.9	496.0	199	9.0	14.0	13	99.29	40,834	1,646.53	1,869.19	20.28	1,842.53	185.18	287.76	4.31
HJ 500 x 200 x 10 x 16	88.1	500.0	200	10.0	16.0	13	112.25	46,811	1,872.44	2,129.90	20.42	2,138.23	213.82	332.85	4.36
HJ 500 x 200 x 11 x 19	101.5	506.0	201	11.0	19.0	13	129.31	55,481	2,192.92	2,495.71	20.71	2,577.83	256.50	399.19	4.46
HJ 500 x 300 x 11 x 15	110.8	482.0	300	11.0	15.0	13	141.17	58,274	2,418.01	2,695.71	20.32	6,756.13	450.41	689.89	6.92
HJ 500 x 300 x 11 x 18	124.9	488.0	300	11.0	18.0	13	159.17	68,859	2,822.09	3,132.21	20.80	8,106.13	540.41	824.89	7.14

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
HJ 600 x 300 x 12 x 17	132.8	582.0	300	12.0	17.0	13	169.21	98,950	3,400.34	3,821.75	24.18	7,659.13	510.61	786.02	6.73
HJ 600 x 300 x 12 x 20	147.0	588.0	300	12.0	20.0	13	187.21	114,350	3,889.46	4,348.25	24.71	9,009.13	600.61	921.02	6.94
HJ 600 x 300 x 14 x 23	170.4	594.0	302	14.0	23.0	13	217.09	133,561	4,497.00	5,056.57	24.80	10,572.42	700.16	1,077.14	6.98
HJ 700 x 300 x 13 x 20	162.9	692.0	300	13.0	20.0	18	207.54	168,425	4,867.77	5,503.18	28.49	9,015.33	601.02	930.48	6.59
HJ 700 x 300 x 13 x 24	181.8	700.0	300	13.0	24.0	18	231.54	197,491	5,642.60	6,338.38	29.21	10,815.33	721.02	1,110.48	6.83
HJ 800 x 300 x 14 x 22	188.0	792.0	300	14.0	22.0	18	239.50	248,344	6,271.31	7,143.21	32.20	9,920.80	661.39	1,029.72	6.44
HJ 800 x 300 x 14 x 26	206.8	800.0	300	14.0	26.0	18	263.50	286,361	7,159.03	8,098.41	32.97	11,720.80	781.39	1,209.72	6.67
HJ 900 x 300 x 15 x 23	209.5	890.0	299	15.0	23.0	18	266.92	338,540	7,607.64	8,749.92	35.61	10,274.59	687.26	1,078.79	6.20
HJ 900 x 300 x 16 x 28	240.1	900.0	300	16.0	28.0	18	305.82	404,492	8,988.71	10,290.45	36.37	12,633.14	842.21	1,317.36	6.43
HJ 900 x 300 x 18 x 34	282.6	912.0	302	18.0	34.0	18	360.06	491,011	10,767.79	12,337.12	36.93	15,654.10	1,036.70	1,622.46	6.59
0	0.0	1.0	1	1.0	1.0	1	0.01	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25 x 25 x 3	2.1	25.0	25	3.0	3.0	3	2.64	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40 x 40 x 4	4.5	40.0	40	4.0	4.0	4	5.76	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40 x 40 x 5	5.5	40.0	40	5.0	5.0	5	7.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
45 x 45 x 4	5.1	45.0	45	4.0	4.0	4	6.56	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
50 x 50 x 4.5	6.4	50.0	50	4.5	4.5	5	8.15	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
55 x 55 x 4	6.4	55.0	55	4.0	4.0	4	8.16	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
55 x 55 x 5	7.9	55.0	55	5.0	5.0	5	10.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
76 x 76 x 8	17.1	76.0	76	8.0	8.0	8	21.76	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
90 x 90 x 7	18.2	90.0	90	7.0	7.0	7	23.24	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100 x 100 x 5	14.9	100.0	100	5.0	5.0	5	19.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
110 x 110 x 5.5	18.0	110.0	110	5.5	5.5	6	22.99	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120 x 120 x 8	28.1	120.0	120	8.0	8.0	8	35.84	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120 x 120 x 9.5	33.0	120.0	120	9.5	9.5	10	41.99	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120 x 120 x 10	34.5	120.0	120	10.0	10.0	10	44.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120 x 120 x 10.5	36.1	120.0	120	10.5	10.5	11	45.99	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120 x 120 x 12	40.7	120.0	120	12.0	12.0	12	51.84	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120 x 120 x 12.5	42.2	120.0	120	12.5	12.5	13	53.75	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
125 x 125 x 6	22.4	125.0	125	6.0	6.0	6	28.56	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
127 x 127 x 5	19.2	127.0	127	5.0	5.0	5	24.40	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
127 x 127 x 5.5	21.0	127.0	127	5.5	5.5	6	26.73	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
140 x 140 x 10	40.8	140.0	140	10.0	10.0	10	52.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150 x 150 x 4.5	20.6	150.0	150	4.5	4.5	5	26.19	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150 x 150 x 5	22.8	150.0	150	5.0	5.0	5	29.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150 x 150 x 7.5	33.6	150.0	150	7.5	7.5	8	42.75	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150 x 150 x 8	34.1	150.0	150	8.0	8.0	8	43.44	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150 x 150 x 10	41.5	150.0	150	10.0	10.0	10	52.87	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
155 x 155 x 13	58.0	155.0	155	13.0	13.0	13	73.84	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
160 x 160 x 10	47.1	160.0	160	10.0	10.0	10	60.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
180 x 180 x 10	53.4	180.0	180	10.0	10.0	10	68.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200 x 200 x 10	59.7	200.0	200	10.0	10.0	10	76.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200 x 200 x 12	70.8	200.0	200	12.0	12.0	12	90.24	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
220 x 220 x 8	53.3	220.0	220	8.0	8.0	8	67.84	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
220 x 220 x 10	65.9	220.0	220	10.0	10.0	10	84.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
220 x 220 x 12	78.4	220.0	220	12.0	12.0	12	99.84	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
260 x 260 x 15	115.4	260.0	260	15.0	15.0	15	147.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
260 x 260 x 16	122.6	260.0	260	16.0	16.0	16	156.16	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
300 x 300 x 6.3	58.1	300.0	300	6.3	6.3	6	74.01	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
350 x 350 x15	157.8	350.0	350	15.0	15.0	15	201.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
400 x 400 x 12	146.2	400.0	400	12.0	12.0	12	186.24	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
400 x 400 x 15	181.3	400.0	400	15.0	15.0	15	231.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
35 x 20 x 3	2.3	35.0	20	3.0	3.0	3	2.94	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
60 x 30 x 2.7	3.6	60.0	30	2.7	2.7	3	4.57	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
60 x 30 x 3	4.0	60.0	30	3.0	3.0	3	5.04	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
70 x 35 x 3.2	5.0	70.0	35	3.2	3.2	3	6.31	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
70 x 50 x 4	7.0	70.0	50	4.0	4.0	4	8.96	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
70 x 50 x 5	8.6	70.0	50	5.0	5.0	5	11.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
80 x 40 x 5.5	9.4	80.0	40	5.5	5.5	6	11.99	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
80 x 40 x 6	10.2	80.0	40	6.0	6.0	6	12.96	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
80 x 50 x 6	11.1	80.0	50	6.0	6.0	6	14.16	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
80 x 80 x 8	17.8	80.0	80	8.0	8.0	8	18.47	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
90 x 50 x 4	8.3	90.0	50	4.0	4.0	4	10.56	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
90 x 50 x 5	10.2	90.0	50	5.0	5.0	5	13.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
90 x 50 x 7	13.8	90.0	50	7.0	7.0	7	17.64	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
90 x 60 x 6	13.0	90.0	60	6.0	6.0	6	16.56	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100 x 30 x 3	5.8	100.0	30	3.0	3.0	3	7.44	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100 x 30 x 4	7.7	100.0	30	4.0	4.0	4	9.76	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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Designation	G kg/m	Dimensions						Section properties							
								Strong axis				Weak axis			
		H mm	B mm	Tw mm	Tf mm	R mm	I cm ²	Iy cm ⁴	Wely cm ³	Wply cm ³	Iy cm	Iz cm ⁴	Welz cm ³	Wplz cm ³	Iz cm
100 x 60 x 3.5	8.4	100.0	60	3.5	3.5	4	10.71	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
110 x 60 x 3.5	9.0	110.0	60	3.5	3.5	4	11.41	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
110 x 60 x 4	10.2	110.0	60	4.0	4.0	4	12.96	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
110 x 60 x 4.5	11.4	110.0	60	4.5	4.5	5	14.49	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
110 x 60 x 5.5	13.7	110.0	60	5.5	5.5	6	17.49	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120 x 80 x 6	17.7	120.0	80	6.0	6.0	6	22.56	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120 x 80 x 10	28.3	120.0	80	10.0	10.0	10	36.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
125 x 100 x 4	13.6	125.0	100	4.0	4.0	4	17.36	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
127 x 76 x 9.5	27.5	127.0	76	9.5	9.5	10	35.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
140 x 50 x 10	26.7	140.0	50	10.0	10.0	10	34.00	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
140 x 55 x 7	19.9	140.0	55	7.0	7.0	7	25.34	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
140 x 80 x 4.5	14.9	140.0	80	4.5	4.5	5	18.99	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150 x 75 x 3	10.3	150.0	75	3.0	3.0	3	13.14	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150 x 75 x 4	13.6	150.0	75	4.0	4.0	4	17.36	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150 x 100 x 4	15.2	150.0	100	4.0	4.0	4	19.36	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
160 x 70 x 8	26.9	160.0	70	8.0	8.0	8	34.24	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
160 x 80 x 12.5	42.2	160.0	80	12.5	12.5	13	53.75	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
160 x 90 x 4	15.2	160.0	90	4.0	4.0	4	19.36	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
180 x 100 x 12	48.2	180.0	100	12.0	12.0	12	61.44	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
180 x 100 x 14	55.4	180.0	100	14.0	14.0	14	70.56	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200 x 60 x 4	15.8	200.0	60	4.0	4.0	4	20.16	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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
200 x 120 x 8	38.2	200.0	120	8.0	8.0	8	48.64	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00
220 x 120 x 6.3	32.4	220.0	120	6.3	6.3	6	41.25	1	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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