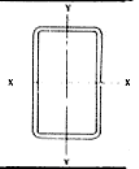


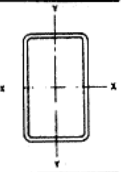
Rectangular



Metric units

Section size	Wall thickness t	Unit weight M	Section area A	Moment of inertia		Radius of gyration		Modulus of section	
				I _x	I _y	i _x	i _y	Z _x	Z _y
mm	mm	kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
19 x 9	1.2	0.421	0.0833	0.25	0.07	0.65	0.35	0.26	0.16
	1.6	0.54	0.107	0.30	0.86	0.63	0.33	0.32	0.19
25 x 12	1.2	0.67	0.85	0.62	0.21	0.87	0.50	0.51	0.33
	1.6	0.86	1.08	0.75	0.25	0.85	0.46	0.61	0.39
38 x 19	1.0	0.78	1.104	2.10	0.78	1.37	0.81	1.37	0.80
	1.2	1.02	1.30	2.41	0.81	1.36	0.79	1.27	0.85
	1.6	1.34	1.70	3.09	1.02	1.35	0.77	1.62	1.07
50 x 25	1.0	1.15	1.464	4.99	1.69	1.846	1.077	1.96	1.33
	1.2	1.36	1.86	5.99	2.04	1.84	1.07	2.36	1.59
	1.6	1.79	2.48	7.78	2.58	1.83	1.05	3.06	2.05
	2.3	2.48	3.19	9.86	3.23	1.76	1.01	3.94	2.59
	3.0	3.13	4.04	11.86	3.87	1.73	0.99	4.67	3.06
60 x 40	1.6	2.37	3.03	15.21	8.14	2.23	1.63	5.07	4.07
	2.3	3.33	4.25	20.61	10.96	2.20	1.60	6.87	5.48
	3.0	4.24	5.40	25.29	13.36	2.16	1.57	8.43	6.68
	4.5	6.01	7.66	33.01	17.17	2.07	1.49	11.00	8.58
75 x 38	1.6	2.70	3.30	24.97	8.69	2.72	1.60	6.55	4.57
	2.3	3.85	4.85	34.60	12.00	2.67	1.57	9.23	6.30
	3.0	4.92	6.35	45.20	15.15	2.66	1.54	11.86	7.95
75 x 50	1.9	3.60	4.606	36.62	20.22	2.84	2.09	9.61	7.96
	2.3	4.24	5.40	41.86	22.36	2.78	2.03	11.16	8.94
	3.0	5.42	6.90	52.06	27.67	2.74	2.00	13.88	11.06
	4.5	7.78	9.91	70.20	36.87	2.66	1.92	18.72	14.74
	6.0	10.56	13.47	91.98	47.86	2.62	1.88	24.09	18.85
100 x 50	1.9	4.36	5.484	73.67	25.47	3.65	2.15	14.50	10.02
	2.3	5.14	6.552	84.80	29.00	3.60	2.10	17.00	11.60
	3.0	6.60	8.40	106.33	35.95	3.55	2.06	21.26	14.38
	3.2	7.01	8.927	112.00	38.00	3.55	2.06	22.50	15.20
	4.5	9.55	12.16	146.18	48.51	3.46	1.99	29.23	19.40
	6.0	12.27	15.63	177.71	57.80	3.37	1.92	35.54	23.12
100 x 75	2.3	6.04	7.70	112.22	72.25	3.81	3.06	22.44	19.26
	3.0	7.77	9.90	141.61	90.94	3.78	3.02	28.32	24.25
	4.5	11.31	14.41	197.48	126.12	3.70	2.95	39.49	33.63
	6.0	14.72	18.63	243.98	154.91	3.61	2.88	48.79	41.31
125 x 50	2.3	6.04	7.70	148.17	35.44	4.38	2.14	23.70	14.17
	3.0	7.77	9.90	186.87	44.24	4.34	2.11	29.90	17.69
	4.5	11.31	14.41	260.18	60.16	4.24	2.04	41.62	24.06
	6.0	14.62	18.63	320.77	72.32	4.14	1.97	51.32	28.92

Rectangular



Section size	Wall thickness t	Unit weight M	Section area A	Moment of inertia		Radius of gyration		Modulus of section	
				I _x	I _y	i _x	i _y	Z _x	Z _y
mm	mm	kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
125 x 75	2.3	6.95	8.852	192.00	87.50	4.65	3.14	30.60	23.30
	3.0	8.95	11.40	242.69	110.38	4.61	3.11	38.83	29.43
	3.2	9.52	12.13	257.00	117.00	4.60	3.10	41.10	31.10
	4.5	13.08	16.66	341.86	154.08	4.52	3.04	54.69	41.08
	6.0	16.98	21.63	426.98	190.62	4.44	2.96	68.31	50.83
150 x 75	3.0	10.13	12.90	379.41	129.82	5.42	3.17	50.58	34.62
	3.2	10.80	13.73	402.00	137.00	5.41	3.16	53.60	36.60
	4.5	14.85	18.91	538.32	182.03	5.33	3.10	71.77	48.54
	6.0	19.33	24.63	677.58	226.32	5.24	3.03	90.34	60.35
	9.0	27.60	35.17	905.00	297.00	5.07	2.91	121	79.20
150 x 100	3.0	11.31	14.40	460.45	247.47	5.65	4.14	61.39	49.49
	3.2	12.00	15.33	488.00	262.00	5.64	4.14	65.10	52.50
	4.5	16.60	21.17	658.00	352.00	5.58	4.08	87.70	70.40
	6.0	21.70	27.63	835.00	444.00	5.50	4.01	111.08	88.80
	9.0	31.10	39.67	1,430.00	595.00	5.33	3.87	151	119
200 x 100	4.5	20.1	25.67	1,330	455	7.20	4.21	133	90.9
	6.0	26.4	33.63	1,700	577	7.12	4.14	170	115
	9.0	38.2	48.67	2,350	782	6.94	4.01	235	156
	12.0	49.1	62.53	2,860	939	6.76	3.87	286	188
200 x 150	6.0	31.1	39.63	2,270	1,460	7.56	6.06	227	194
	9.0	45.3	57.67	3,170	2,020	7.41	5.93	317	270
	12.0	58.5	74.53	3,920	2,500	7.25	5.79	392	330
250 x 150	6.0	35.8	45.63	3,890	1,770	9.23	6.23	311	236
	9.0	52.3	66.67	5,480	2,470	9.06	6.09	438	330
	12.0	67.9	86.53	6,850	3,070	8.90	5.95	548	409
300 x 200	6.0	45.2	57.63	7,370	3,960	11.3	8.29	491	396
	9.0	66.5	84.67	10,500	5,630	11.2	8.16	702	563
	12.0	86.8	110.5	13,400	7,110	11.0	8.02	890	711
400 x 200	6.0	54.7	69.63	14,800	5,090	14.6	8.55	739	509
	9.0	80.6	102.7	21,300	7,270	14.4	8.42	1,070	727
	12.0	106.0	134.5	27,300	9,230	14.2	8.28	1,360	923