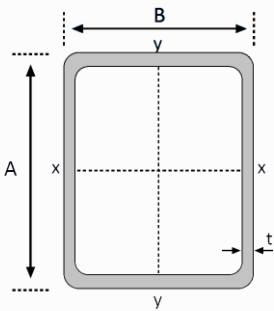


GI RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
EN 10219 S275JR/J0/J2H
EN 10219 S355JR/J0/J2H
ASTM A500 Gr A/B

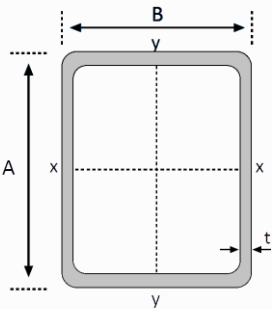


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	Ix	Iy	Zx	Zy	ix	iy	Sx	Sy
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
19 x 9	1	0.411	0.494	0.206	0.0621	0.216	0.138	0.645	0.354	0.283	0.165
	1.2	0.421	0.577	0.231	0.0689	0.243	0.153	0.633	0.346	0.323	0.188
	1.6	0.54	0.728	0.268	0.0783	0.282	0.174	0.607	0.328	0.39	0.224
25 x 12	1	0.555	0.674	0.51	0.16	0.408	0.266	0.869	0.487	0.521	0.31
	1.2	0.659	0.793	0.583	0.181	0.467	0.302	0.857	0.478	0.604	0.358
	1.6	0.859	1.02	0.705	0.215	0.564	0.358	0.833	0.46	0.749	0.44
25 x 13	1.2	0.67	0.817	0.617	0.219	0.494	0.337	0.869	0.517	0.632	0.398
	1.6	0.86	1.05	0.749	0.262	0.599	0.402	0.845	0.5	0.786	0.492
32 x 16	1	0.707	0.894	1.15	0.391	0.722	0.488	1.14	0.661	0.905	0.558
	1.2	0.838	1.06	1.34	0.449	0.836	0.562	1.12	0.652	1.06	0.65
	1.6	1.1	1.37	1.66	0.55	1.04	0.688	1.1	0.634	1.34	0.818
38 x 19	1	0.858	1.07	1.99	0.676	1.05	0.711	1.36	0.793	1.3	0.805
	1.2	1.02	1.27	2.32	0.783	1.22	0.824	1.35	0.784	1.53	0.943
	1.6	1.33	1.7	3.06	1.01	1.61	1.06	1.34	0.771	2.08	1.26
	3	2.22	--	--	--	--	--	--	--	--	--
38 x 25	1	0.949	1.19	2.4	1.26	1.26	1.01	1.42	1.03	1.52	1.14
	1.2	1.13	1.42	2.8	1.47	1.48	1.17	1.41	1.02	1.79	1.35
	1.6	1.5	1.85	3.55	1.85	1.87	1.48	1.39	1	2.3	1.72
50 x 25	1	1.15	1.43	4.69	1.6	1.87	1.28	1.81	1.06	2.31	1.43
	1.2	1.37	1.71	5.5	1.88	2.2	1.5	1.8	1.05	2.73	1.69
	1.6	1.79	2.28	7.29	2.44	2.91	1.95	1.79	1.03	3.69	2.25
	2	2.15	2.74	8.38	2.81	3.35	2.25	1.75	1.01	4.26	2.62
	2.3	2.51	3.19	9.86	3.23	3.94	2.59	1.76	1.01	5.11	3.09
	2.5	2.62	3.34	9.89	3.28	3.95	2.62	1.72	0.991	5.11	3.12
	3	3.19	4.06	12.1	3.89	4.84	3.11	1.73	0.98	6.43	3.84
	3.2	3.41	4.13	11.6	3.8	4.65	3.04	1.68	0.96	6.14	3.73
50 x 30	2	2.31	2.94	9.54	4.29	3.81	2.86	1.8	1.21	4.74	3.33
	2.5	2.82	3.59	11.3	5.05	4.52	3.37	1.77	1.19	5.7	3.98
	3	3.3	4.21	12.8	5.7	5.13	3.8	1.75	1.16	6.57	4.58
	4	4.2	5.35	15.3	6.69	6.1	4.46	1.69	1.12	8.05	5.58

GI RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
EN 10219 S275JR/J0/J2H
EN 10219 S355JR/J0/J2H
ASTM A500 Gr A/B

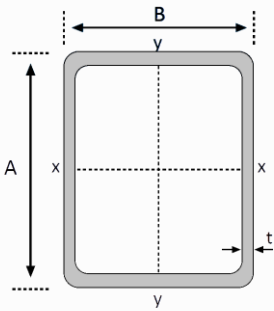


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	Ix	Iy	Zx	Zy	ix	iy	Sx	Sy
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
60 x 40	1.6	2.37	3.03	15.2	8.16	5.07	4.08	2.24	1.64	6.12	4.64
	2.3	3.33	4.25	20.7	11	6.88	5.5	2.2	1.61	8.44	6.38
	2.5	3.6	4.59	22.1	11.7	7.36	5.87	2.19	1.6	9.06	6.84
	3	4.25	5.41	25.4	13.4	8.46	6.72	2.17	1.58	10.5	7.94
	4	5.45	6.95	31	16.3	10.3	8.14	2.11	1.53	13.2	9.89
	4.5	6.01	7.67	33.3	17.4	11.1	8.72	2.08	1.51	14.3	10.7
65 x 38	1.6	2.49	3.17	18.3	7.94	5.63	4.18	2.4	1.58	6.91	4.75
	2.3	3.52	4.48	25.2	10.8	7.74	5.69	2.37	1.55	9.68	6.62
	3	4.39	5.29	29.8	12.8	9.18	6.75	2.31	1.51	12.3	8.36
	3.2	4.54	5.92	31.3	13.4	9.63	7.06	2.3	1.51	12.2	8.35
	4	5.64	7.19	36.5	15.5	11.2	8.17	2.25	1.47	14.5	9.89
75 x 38	1.6	2.71	3.45	25.3	8.85	6.76	4.66	2.71	1.6	8.59	5.34
	2.3	3.81	4.85	34.6	12	9.23	6.3	2.67	1.57	12.1	7.44
	3	4.86	6.19	42.8	14.7	11.4	7.72	2.63	1.54	15.3	9.41
	3.2	5.17	6.56	45	15.4	12	8.09	2.62	1.53	15.3	9.46
	4	6.27	7.99	52.8	17.9	14.1	9.4	2.57	1.5	18.3	11.2
	4.5	6.94	8.84	57.1	19.2	15.2	10.1	2.54	1.47	19.9	12.3
75 x 50	1.9	3.54	4.51	35.5	19.1	9.48	7.62	2.81	2.05	11.8	8.88
	2.3	4.24	5.4	41.9	22.4	11.2	8.96	2.79	2.04	14.1	10.6
	3	5.42	6.91	52.2	27.8	13.9	11.1	2.75	2	17.9	13.5
	3.2	5.8	7.33	54.9	29.2	14.6	11.7	2.74	2	18	13.6
	4	7.08	8.95	65	34.3	17.3	13.7	2.69	1.96	21.7	16.3
	4.5	7.79	9.92	70.6	37.2	18.8	14.9	2.67	1.94	25.7	19.1
	4.6	8.04	10.1	71.6	37.7	19.1	15.1	2.66	1.93	24.2	18.2
	4.8	8.33	10.5	73.7	38.8	19.6	15.5	2.65	1.92	24.9	18.8
	5	8.53	10.9	75.6	39.7	20.2	15.9	2.64	1.91	25.7	19.3
	6	9.92	12.63	84.4	44.1	22.5	17.6	2.58	1.87	32.6	24.1
80 x 40	3	5.19	6.61	52.3	17.6	13.1	8.78	2.81	1.63	16.5	10.2
	4	6.71	8.55	64.8	21.5	16.2	10.7	2.75	1.59	20.9	12.8
90 x 50	3	6.13	7.81	81.9	32.7	18.2	13.1	3.24	2.05	22.6	15
	3.6	7.24	9.23	94.7	37.7	21.1	15.1	3.2	2.02	26.4	17.5
	4	7.97	10.1	103	40.7	22.8	16.3	3.18	2	28.8	19.1
	5	9.7	12.4	121	47.4	26.8	18.9	3.12	1.96	34.4	22.7

GI RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
EN 10219 S275JR/J0/J2H
EN 10219 S355JR/J0/J2H
ASTM A500 Gr A/B

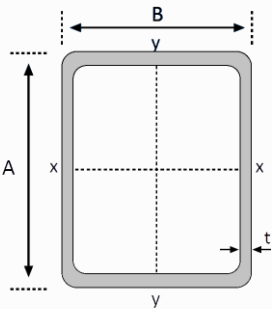


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
100 x 50	1.9	4.36	5.46	71.6	24.5	14.3	9.82	3.62	2.12	17.6	10.9
	2.3	5.14	6.55	84.8	29	17	11.6	3.6	2.1	21.7	13.3
	3	6.6	8.41	106	36.1	21.3	14.4	3.56	2.07	27.8	17
	3.2	7.07	8.93	112	38	22.5	15.2	3.55	2.06	28.2	17.4
	4	8.59	10.9	134	44.9	26.8	18	3.5	2.03	34.1	20.9
	4.5	9.55	12.17	147	48.9	29.3	19.5	3.47	2	40.1	24.3
	5	10.5	13.4	158	52.5	31.6	21	3.44	1.98	40.8	25
	6	12.3	15.63	179	58.7	35.7	23.5	3.38	1.94	51.4	30.7
	6.3	12.5	15.9	176	58.2	35.1	23.3	3.32	1.91	46.9	28.6
100 x 60	3	7.07	9.01	121	54.6	24.1	18.2	3.66	2.46	29.6	20.8
	3.6	8.37	10.7	140	63.3	28	21.1	3.63	2.44	34.7	24.3
	4	9.22	11.7	153	68.7	30.5	22.9	3.6	2.42	37.9	26.6
	5	11.3	14.4	181	80.8	36.2	26.9	3.55	2.37	45.6	31.9
	6	13.2	16.8	205	91.2	41.1	30.4	3.49	2.33	52.5	36.6
	6.3	13.5	17.2	203	90.9	40.7	30.3	3.44	2.3	52.8	36.9
100 x 75	2.3	6.04	7.7	112	72.3	22.5	19.3	3.82	3.06	26.6	21.9
	3	7.78	9.91	142	91.1	28.4	24.3	3.78	3.03	35.1	28.7
	3.2	8.33	10.5	150	96.2	30	25.6	3.77	3.02	35.9	29.5
	4	10.2	12.9	180	115	36	30.8	3.73	2.99	43.7	35.9
	4.5	11.3	14.42	198	127	39.6	33.7	3.71	2.96	50.9	41.5
	4.6	11.7	14.7	201	129	40.3	34.3	3.7	2.96	49.2	40.3
	4.8	12.1	15.3	208	133	41.6	35.4	3.69	2.95	51	41.8
	5	12.8	15.9	215	137	42.9	36.5	3.68	2.94	52.7	43.2
	6	14.6	18.63	245	156	49	41.6	3.63	2.89	65.5	53.3
120 x 60	3	8.01	10.2	189	64.4	31.5	21.5	4.3	2.51	39.2	24.2
	3.6	9.5	12.1	221	74.8	36.8	24.9	4.27	2.48	46.1	28.4
	4	10.5	13.3	241	81.2	40.1	27.1	4.25	2.47	50.5	31.1
	5	12.8	16.4	287	96	47.8	32	4.19	2.42	60.9	37.4
	6	15.1	19.2	328	109	54.7	36.3	4.13	2.38	70.6	43.1
	6.3	15.5	19.7	327	109	54.5	36.4	4.07	2.35	71.2	43.7

GI RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
EN 10219 S275JR/J0/J2H
EN 10219 S355JR/J0/J2H
ASTM A500 Gr A/B

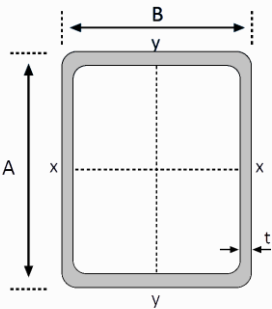


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
120 x 80	4	11.7	14.9	295	157	49.1	39.3	4.44	3.24	59.8	45.2
	5	14.4	18.4	353	188	58.9	46.9	4.39	3.2	72.4	54.7
	6	17	21.6	406	215	67.7	53.8	4.33	3.15	84.3	63.5
	6.3	17.5	22.2	408	217	68.1	54.3	4.28	3.12	85.6	64.7
	8	21.4	27.2	476	252	79.3	62.9	4.18	3.04	102	76.9
125 x 50	2.3	6.04	7.7	148	35.5	23.7	14.2	4.39	2.15	29.9	15.7
	3	7.78	9.91	187	44.4	29.9	17.7	4.34	2.12	39.5	20.5
	3.2	8.33	10.5	198	46.7	31.6	18.7	4.33	2.11	40.4	21.1
	4	10.2	12.9	238	55.6	38	22.2	4.28	2.07	49	25.5
	4.5	11.3	14.42	261	60.6	41.7	24.2	4.25	2.05	57.4	29.4
	4.6	11.7	14.7	265	61.5	42.4	24.6	4.25	2.04	55.2	28.6
	4.8	12.1	15.3	274	63.4	43.8	25.3	4.23	2.04	57.2	29.6
	5	12.8	15.9	282	65.2	45.2	26.1	4.22	2.03	59.1	30.6
	6	14.6	18.63	322	73.3	51.5	29.3	4.16	1.98	74	37.3
	6.4	15.6	19.4	322	74	51.6	29.6	4.08	1.95	69.6	35.9
125 x 75	2.3	6.95	8.85	191.5	87.5	30.6	23.3	4.65	3.14	37	26.1
	3	8.96	11.41	243	111	38.9	29.5	4.61	3.12	48.7	34.1
	3.2	9.6	12.1	257	117	41.1	31.1	4.6	3.1	50.1	35.3
	4	11.8	14.9	311	141	49.7	37.5	4.56	3.07	61.1	43
	4.5	13.1	16.67	342	155	54.8	41.2	4.53	3.04	70.9	49.5
	5	14.7	18.4	373	168	59.6	44.7	4.5	3.02	74.1	52
	6	17	21.63	428	192	68.5	51.1	4.45	2.98	91.9	63.7
	6.4	18.2	22.6	435	196	69.6	52.2	4.39	2.94	88.5	62.1
150 x 50	3	8.96	11.41	299	52.6	39.8	21.1	5.12	2.15	53.2	24.1
	3.2	9.6	12.1	316	55.5	42.1	22.2	5.1	2.14	54.5	24.9
	4	11.8	14.9	381	66.2	50.9	26.5	5.05	2.1	66.5	30.1
	4.5	13.1	16.67	420	72.2	56	28.9	5.02	2.08	77.5	34.5
	4.6	13.5	17	427	73.4	57	29.4	5.01	2.08	75	33.8
	4.8	14	17.7	442	75.7	58.9	30.3	5	2.07	77.8	35
	5	14.7	18.4	456	77.9	60.8	31.1	4.99	2.06	80.5	36.2
	6	17	21.63	523	87.9	69.8	35.2	4.92	2.02	100	43.9
	6.4	18.2	22.6	528	89.3	70.4	35.7	4.84	1.99	95.7	42.9

GI RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
EN 10219 S275JR/J0/J2H
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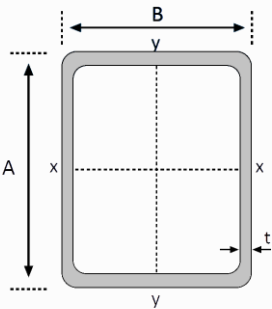


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
150 x 75	3	10.1	12.91	380	130	50.6	34.7	5.42	3.17	64.2	39.5
	3.2	10.9	13.7	402	137	53.6	36.6	5.41	3.16	66.3	41
	4	13.4	16.9	488	166	65.1	44.2	5.37	3.13	81.1	50.1
	4.5	14.9	18.92	539	183	71.9	48.7	5.34	3.11	93.8	57.4
	4.6	15.3	19.3	549	186	73.2	49.5	5.33	3.1	91.7	56.5
	4.8	14	20.1	568	192	75.8	51.2	5.32	3.09	95.2	58.6
	5	16.7	20.9	588	198	78.4	52.9	5.31	3.08	98.6	60.7
	6	19.3	24.63	679	228	90.5	60.7	5.25	3.04	122	74
	6.4	20.7	25.8	693	233	92.4	62.2	5.19	3.01	119	73.1
	9	27.6	35.17	905	297	121	79.2	5.07	2.91	172	105
150 x 100	3	11.31	14.41	460.7	247.6	61.4	49.5	5.65	4.15	73.5	55.8
	3.2	12	15.3	488	262	65.1	52.5	5.64	4.14	78	59.2
	4	14.9	18.9	595	319	79.3	63.7	5.6	4.1	95.7	72.5
	4.5	16.6	21.17	658	352	87.7	70.4	5.58	4.08	110	83.1
	4.6	17.1	21.6	670	358	89.4	71.7	5.57	4.07	108	82.1
	4.8	17.8	22.5	695	371	92.7	74.3	5.56	4.06	113	85.2
	5	18.3	23.36	719	384	95.9	76.8	5.55	4.05	122	91.5
	6	21.7	27.63	835	444	111.1	88.8	5.5	4.01	144	108
	6.3	22.4	28.5	848	453	113	90.5	5.45	3.98	140	106
	6.4	23.2	29	858	458	114	91.6	5.44	3.98	142	107
	8	27.7	35.2	1008	536	134	107	5.35	3.9	169	128
	9	31.1	39.67	1129	595	120	119	5.33	3.87	190	143
	9.5	33.3	40.8	1127	597	150	119	5.26	3.82	192	145
	12.7	42.3	50.1	1232	655	164	131	4.96	3.61	221	167
160 x 80	5	17.5	22.4	722	244	90.2	61	5.68	3.3	113	69.7
	6	20.7	26.4	836	281	105	70.2	5.62	3.26	132	81.3
	8	26.4	33.6	1001	335	125	83.7	5.46	3.16	163	100
175 x 100	4.8	19.7	24.9	1013	426	116	85.2	6.38	4.14	142	96.7
	6.4	25.7	32.2	1260	528	144	106	6.26	4.05	180	122
	9.5	37.1	45.5	1673	694	191	139	6.06	3.9	246	166
	12.7	47.3	56.5	1867	777	213	155	5.75	3.71	288	195

GI RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
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EN 10219 S355JR/J0/J2H
ASTM A500 Gr A/B

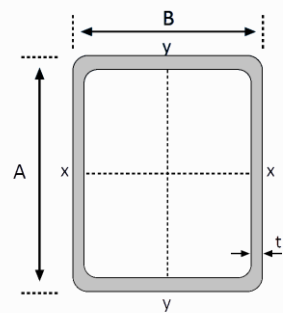


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
175 x 125	4.8	21.6	27.3	1187	708	136	113	6.6	5.09	163	129
	6.4	28.3	35.4	1487	886	170	142	6.49	5.01	207	164
	9.5	40.9	50.3	1999	1184	228	189	6.3	4.85	285	226
	12.7	52.4	62.8	2286	1356	261	217	6.03	4.65	340	270
200 x 100	4	18	22.9	1200	411	120	82.2	7.23	4.23	148	91.7
	4.5	20.2	25.67	1331	455	133	90.9	7.2	4.21	170	105
	5	22.3	28.4	1459	497	146	99.4	7.17	4.19	181	112
	6	26.4	33.63	1703	577	170	115	7.12	4.14	222	136
	6.3	27.4	34.8	1739	591	174	118	7.06	4.12	219	135
	8	33.9	43.2	2091	705	209	141	6.95	4.04	267	165
	9	38.2	48	2280	764	228	153	6.89	3.99	293	180
	9.5	40.9	50.3	2362	792	236	158	6.85	3.97	306	188
	12	49.1	60.1	2607	876	261	175	6.59	3.82	350	215
	12.7	52.4	62.8	2679	898	268	180	6.53	3.78	363	223
200 x 150	4.5	23.7	30.17	1761.6	1134.6	176.2	151.3	7.64	6.13	208.9	171.8
	6	31.1	39.63	2268.1	1457.2	226.8	194.3	7.56	6.06	271.5	223.1
	6.3	33.3	41.1	2330	1499	233	200	7.53	6.04	280	230
	9	45.3	57.68	3167.3	2024.9	316.7	270	7.41	5.93	386.4	316.9
	9.5	48.4	59.8	3225	2066	322	275	7.34	5.88	396	326
	12	58.5	72.1	3668	2353	367	314	7.14	5.71	463	380
	12.7	62.5	75.5	3794	2432	379	324	7.09	5.67	482	396
250 x 150	5	30.1	38.4	3304	1508	264	201	9.28	6.27	320	225
	6	35.8	45.63	3885.7	1768.4	310.9	235.8	9.23	6.23	378.1	266.3
	6.3	37.2	47.4	4001	1825	320	243	9.18	6.2	391	276
	8	46.5	59.2	4886	2219	391	296	9.08	6.12	482	340
	9	52.3	66.68	5478.7	2472.8	438.3	329.7	9.06	6.09	541.9	380.4
	10	57	72.6	5825	2634	466	351	8.96	6.02	582	409
	12	67.9	86.54	6853.3	3068.3	548.3	409.1	8.9	5.95	689.4	482.3
	12.5	68.3	87	6633	3002	531	400	8.73	5.87	678	477
300 x 100	6	35.8	45.6	4777	842	318	168	10	4.3	411	188
	6.3	37.2	47.4	4907	868	327	174	10	4.28	425	194
	10	57	72.6	7106	1224	474	245	10	4.11	631	285

GI RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
EN 10219 S275JR/J0/J2H
EN 10219 S355JR/J0/J2H
ASTM A500 Gr A/B



(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	Ix	Iy	Zx	Zy	ix	iy	Sx	Sy
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
300 x 200	6	45.24	57.63	7370.5	3962.3	491.4	396.2	11.31	8.29	587.8	446.1
	6.3	47.1	60	7624	4104	508	410	11.3	8.27	610	463
	8	59.1	75.2	9389	5042	626	504	11.2	8.19	757	574
	9	66.47	84.68	10529.5	5631.6	702	563.2	11.15	8.16	850.8	644.3
	10	73.34	93.43	11507.9	6144.5	767.2	614.5	11.1	8.11	933.9	706.8
	12	86.77	110.54	13355.8	7107.4	890.4	710.7	10.99	8.02	1093.5	826.5
	12.5	88	112	13180	7060	879	706	10.8	7.94	1091	828
	16	112.39	143.18	16630.1	8792.2	1108.7	879.2	10.78	7.84	1386.6	1045.1
400 x 200	6	54.7	69.6	14790	5092	739	509	14.6	8.55	906	562
	8	71.6	91.2	18970	6517	949	652	14.4	8.45	1173	728
	9	80.6	102	21020	7204	1051	720	14.4	8.4	1305	809
	10	88.4	113	23000	7864	1150	786	14.3	8.36	1434	888
	12	104	132	26250	8977	1312	898	14.1	8.24	1656	1027
	12.5	108	137	27100	9260	1355	926	14.1	8.22	1714	1062