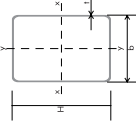




**MILD STEEL
RECTANGULAR
HOLLOW SECTIONS**

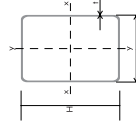
RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m AS mm ²
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	It cm ⁴	C _t cm ³	
50 x 30	2.5	2.89	3.68	11.8	5.22	1.79	1.19	4.73	3.48	5.92	4.11	11.7	5.73	0.154
	3.0	3.41	4.34	13.6	5.94	1.77	1.17	5.43	3.96	6.88	4.76	13.5	6.51	0.152
	3.2	3.61	4.60	14.2	6.20	1.76	1.16	5.68	4.13	7.25	5.00	14.2	6.80	0.152
	4.0	4.39	5.59	16.5	7.08	1.72	1.13	6.60	4.72	8.59	5.88	16.6	7.77	0.150
	4.9	5.20	6.62	18.5	7.82	1.67	1.09	7.41	5.21	9.90	6.72	18.8	8.59	0.147
60 x 40	5.0	5.28	6.73	18.7	7.89	1.67	1.08	7.49	5.26	10.00	6.80	19.0	8.67	0.147
	2.5	3.68	4.68	22.8	12.1	2.21	1.60	7.61	6.03	9.32	7.02	25.1	9.73	0.194
	3.0	4.35	5.54	26.5	13.9	2.18	1.58	8.82	6.95	10.9	8.19	29.2	11.20	0.192
	3.2	4.62	5.88	27.8	14.6	2.18	1.57	9.27	7.29	11.5	8.64	30.8	11.70	0.192
	4.0	5.64	7.19	32.8	17.0	2.14	1.54	10.9	8.52	13.8	10.3	36.7	13.70	0.190
80 x 40	4.9	6.74	8.58	37.6	19.3	2.09	1.50	12.5	9.66	16.2	12.0	42.4	15.50	0.187
	5.0	6.85	8.73	38.1	19.5	2.09	1.50	12.7	9.77	16.4	12.2	43.0	15.70	0.187
	6.0	7.99	10.2	42.3	21.4	2.04	1.45	14.1	10.7	18.6	13.7	48.2	17.30	0.185
	6.3	8.31	10.6	43.4	21.9	2.02	1.44	14.5	11.0	19.2	14.2	49.5	17.60	0.184
	3.0	5.29	6.74	54.2	18.0	2.84	1.63	13.6	9.00	17.1	10.4	43.8	15.30	0.232
80 x 40	3.2	5.62	7.16	57.2	18.9	2.83	1.63	14.3	9.46	18.0	11.0	46.2	16.10	0.232
	4.0	6.90	8.79	68.2	22.2	2.79	1.59	17.1	11.1	21.8	13.2	55.2	18.90	0.230



RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m AS mm ²
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	It cm ⁴	C _t cm ³	
80 x 40	4.9	8.28	10.5	79.2	25.4	2.74	1.55	19.8	12.7	25.7	15.4	64.1	21.6	0.227
	5.0	8.42	10.7	80.3	25.7	2.74	1.55	20.1	12.9	26.1	15.7	65.1	21.9	0.227
	6.0	9.87	12.6	90.5	28.5	2.68	1.50	22.6	14.2	30.0	17.8	73.4	24.2	0.225
	6.3	10.3	13.1	93.3	29.2	2.67	1.49	23.3	14.6	31.1	18.4	75.6	24.8	0.224
	8.0	12.5	16	106	32.1	2.58	1.42	26.5	16.1	36.5	21.2	85.8	27.4	0.219
90 x 50	3.0	6.24	7.94	84.4	33.5	3.26	2.05	18.8	13.4	23.2	15.3	76.5	22.4	0.272
	3.2	6.63	8.44	89.1	35.3	3.25	2.04	19.8	14.1	24.6	16.2	80.9	23.6	0.272
	3.6	7.40	9.42	98.3	32.3	3.23	2.03	21.8	15.5	27.2	18.0	89.4	25.9	0.271
	4.0	8.15	10.39	107	41.9	3.21	2.01	23.8	16.8	29.8	19.6	97.5	28.0	0.270
	4.9	9.81	12.5	125	48.5	3.17	1.97	27.9	19.4	35.4	23.2	115	32.4	0.267
90 x 50	5.0	9.99	12.73	127	49.2	3.16	1.97	28.3	19.7	36.0	23.5	116	32.9	0.267
	5.6	11.1	14.09	138	53.0	3.13	1.94	30.7	21.2	39.4	25.7	127	35.4	0.266
	6.0	11.8	14.97	145	55.4	3.11	1.92	32.2	22.1	41.6	27.0	133	37.0	0.265
	6.3	12.3	15.63	150	57.0	3.10	1.91	33.3	22.8	43.2	28.0	138	38.1	0.264
	7.1	13.6	17.32	162	60.9	3.06	1.88	36.0	24.4	47.2	30.5	149	40.7	0.262
100 x 50	8.0	15.0	19.15	174	64.6	3.01	1.84	38.6	25.8	51.4	32.9	160	43.2	0.259
	3.0	6.71	8.54	110	36.8	3.58	2.08	21.9	14.7	27.3	16.8	88.4	25.0	0.292



RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A mm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	It cm ⁴	C _t cm ³	
100x50	3.2	7.13	9.08	116	38.8	3.57	2.07	23.2	15.5	28.9	17.7	93.4	26.4	0.292
	3.6	7.96	10.14	128	42.6	3.55	2.05	25.6	17.0	32.1	19.6	103	29.0	0.291
	4.0	8.78	11.19	140	46.2	3.53	2.03	27.9	18.5	35.2	21.5	113	31.4	0.290
	4.9	10.6	13.48	164	53.5	3.49	1.99	32.8	21.4	41.9	25.4	133	36.4	0.287
	5.0	10.8	13.73	167	54.3	3.48	1.99	33.3	21.7	42.6	25.8	135	36.9	0.287
	6.0	12.7	16.17	190	61.2	3.43	1.95	38.1	24.5	49.4	29.7	154	41.6	0.285
100x60	3.2	7.63	9.72	124	55.7	3.68	2.47	24.7	18.6	30.2	21.2	121	30.7	0.312
	3.6	8.53	10.9	145	64.8	3.67	2.46	26.2	19.6	32.0	22.4	129	32.4	0.312
	4.0	9.41	12.0	158	70.5	3.65	2.44	28.9	21.6	35.6	24.9	142	35.6	0.311
	4.9	11.4	14.5	186	82.4	3.59	2.39	37.2	27.5	46.6	32.4	185	45.2	0.307
	5.0	11.6	14.7	189	83.6	3.58	2.38	37.8	27.9	47.4	32.9	188	45.9	0.307
	5.6	12.8	16.3	206	90.6	3.55	2.36	41.2	30.2	52.0	36.1	205	49.7	0.306
100x80	3.2	8.16	10.7	137	60.2	3.70	2.59	26.2	19.6	32.0	22.4	129	32.4	0.312
	3.6	8.99	11.9	150	66.0	3.68	2.57	27.7	20.6	33.7	23.5	136	34.6	0.311
	4.0	9.82	13.0	163	71.8	3.66	2.55	29.4	21.6	35.4	24.6	144	36.8	0.310
	4.9	11.8	15.6	192	84.8	3.60	2.50	37.8	27.9	47.4	32.9	188	45.9	0.307
	5.0	12.0	15.9	195	86.1	3.59	2.49	38.1	28.2	47.7	33.2	191	46.2	0.307
	5.6	13.2	17.4	217	95.0	3.53	2.34	43.4	31.7	55.1	38.1	216	52.1	0.305
120x50	3.2	7.63	9.72	124	55.7	3.68	2.47	24.7	18.6	30.2	21.2	121	30.7	0.312
	3.6	8.53	10.9	145	64.8	3.67	2.46	26.2	19.6	32.0	22.4	129	32.4	0.312
	4.0	9.41	12.0	158	70.5	3.65	2.44	28.9	21.6	35.6	24.9	142	35.6	0.311
	4.9	11.4	14.5	186	82.4	3.59	2.39	37.2	27.5	46.6	32.4	185	45.2	0.307
	5.0	11.6	14.7	189	83.6	3.58	2.38	37.8	27.9	47.4	32.9	188	45.9	0.307
	5.6	12.8	16.3	206	90.6	3.55	2.36	41.2	30.2	52.0	36.1	205	49.7	0.306
120x60	3.2	8.16	10.7	137	60.2	3.70	2.59	26.2	19.6	32.0	22.4	129	32.4	0.312
	3.6	8.99	11.9	150	66.0	3.68	2.57	27.7	20.6	33.7	23.5	136	34.6	0.311
	4.0	9.82	13.0	163	71.8	3.66	2.55	29.4	21.6	35.4	24.6	144	36.8	0.310
	4.9	11.8	15.6	192	84.8	3.60	2.50	37.8	27.9	47.4	32.9	188	45.9	0.307
	5.0	12.0	15.9	195	86.1	3.59	2.49	38.1	28.2	47.7	33.2	191	46.2	0.307
	5.6	13.2	17.4	217	95.0	3.53	2.34	43.4	31.7	55.1	38.1	216	52.1	0.305
120x80	3.2	8.16	10.7	137	60.2	3.70	2.59	26.2	19.6	32.0	22.4	129	32.4	0.312
	3.6	8.99	11.9	150	66.0	3.68	2.57	27.7	20.6	33.7	23.5	136	34.6	0.311
	4.0	9.82	13.0	163	71.8	3.66	2.55	29.4	21.6	35.4	24.6	144	36.8	0.310
	4.9	11.8	15.6	192	84.8	3.60	2.50	37.8	27.9	47.4	32.9	188	45.9	0.307
	5.0	12.0	15.9	195	86.1	3.59	2.49	38.1	28.2	47.7	33.2	191	46.2	0.307
	5.6	13.2	17.4	217	95.0	3.53	2.34	43.4	31.7	55.1	38.1	216	52.1	0.305

RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A mm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	It cm ⁴	C _t cm ³	
100 x 60	3.6	9.7	12.3	227	76.3	4.30	2.49	37.9	25.4	47.2	28.9	183	43.3	0.351
	4.0	10.7	13.6	249	83.1	4.28	2.47	41.5	27.7	51.9	31.7	201	47.1	0.350
	4.9	12.9	16.4	294	97.3	4.23	2.43	49.1	32.4	62.0	37.8	238	55.1	0.347
	5.0	13.1	16.7	299	98.8	4.23	2.43	49.9	32.9	63.1	38.4	242	56.0	0.347
	5.6	14.6	18.6	327	107	4.20	2.40	54.6	35.8	69.5	42.1	265	60.8	0.346
	6.0	15.5	19.8	345	113	4.18	2.39	57.5	37.5	73.6	44.5	279	63.8	0.345
120 x 60	3.6	16.2	20.7	358	116	4.16	2.37	59.7	38.8	76.7	46.3	290	65.9	0.344
	4.0	17.5	22.4	413	135	4.12	2.34	65.2	41.9	84.4	50.8	317	71.3	0.342
	4.9	18.1	23.0	391	126	4.12	2.34	65.2	41.9	84.4	50.8	317	71.3	0.342
	5.0	18.1	23.0	391	126	4.12	2.34	65.2	41.9	84.4	50.8	317	71.3	0.342
	5.6	17.4	22.2	423	222	4.37	3.17	70.6	55.6	87.3	65.5	468	89.6	0.385
	6.3	18.2	23.2	440	230	4.36	3.15	73.3	57.6	91.0	68.2	487	92.9	0.384
120 x 80	3.6	10.8	13.7	276	147	4.48	3.27	46.0	36.7	55.6	42.0	301	59.5	0.391
	4.0	11.9	15.2	303	161	4.46	3.25	50.4	40.2	61.2	46.1	330	65.0	0.390
	4.9	14.4	18.4	359	190	4.42	3.21	59.9	47.5	73.3	55.2	394	76.6	0.387
	5.0	14.7	18.7	365	193	4.42	3.21	60.9	48.2	74.6	56.1	401	77.9	0.387
	5.6	16.3	20.8	401	211	4.39	3.18	66.8	52.7	82.3	61.8	442	85.0	0.386
	6.0	17.4	22.2	423	222	4.37	3.17	70.6	55.6	87.3	65.5	468	89.6	0.385

RECTANGULAR HOLLOW SECTIONS

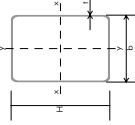
Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area I _m mm ⁴
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
120 x 80	7.1	20.3	25.8	482	251	4.32	3.12	80.3	62.8	100	75.2	535	101	0.382
	8.0	22.6	28.8	525	273	4.27	3.08	87.5	68.1	111	82.6	587	110	0.379
	10.0	27.4	34.9	609	313	4.18	2.99	101.6	78.1	131	97.3	688	126	0.374
150 x 100	4.0	15.1	19.2	607	324	5.63	4.11	81.0	64.8	97.4	73.6	660	105	0.490
	4.9	18.3	23.3	726	386	5.58	4.07	96.8	77.1	117	88.5	792	125	0.487
	5.0	18.6	23.7	739	392	5.58	4.07	98.5	78.5	119	90.1	807	127	0.487
	5.6	20.7	26.4	814	431	5.55	4.04	109	86.2	132	100	891	139	0.486
	6.0	22.1	28.2	862	456	5.53	4.02	115	91.2	141	106	946	147	0.485
	6.3	23.1	29.5	898	474	5.52	4.01	120	94.8	147	110	986	153	0.484
	7.1	25.9	32.9	990	520	5.48	3.97	132	104	163	122	1091	168	0.482
	8.0	28.9	36.8	1087	569	5.44	3.94	145	114	180	135	1203	183	0.479
	8.8	31.5	40.1	1168	610	5.40	3.90	156	122	195	146	1298	196	0.477
	10.0	35.3	44.9	1282	665	5.34	3.85	171	133	216	161	1432	214	0.474
	12.0	41.4	52.7	1450	745	5.25	3.76	193	149	249	185	1633	240	0.469
	12.5	42.8	54.6	1488	763	5.22	3.74	198	153	256	190	1679	246	0.468
160 x 80	4.0	14.4	18.4	612	207	5.77	3.35	76.5	51.7	94.7	58.3	493	88	0.470
	4.9	17.5	22.3	731	245	5.73	3.32	91.4	61.3	114	69.9	590	104	0.467

RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area I _m mm ⁴
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
160 x 80	5.0	17.8	22.7	744	249	5.72	3.31	93.0	62.3	116	71.1	600	106	0.467
	5.6	19.9	25.3	819	273	5.69	3.29	102	68.2	128	78.5	661	116	0.466
	6.0	21.2	27.0	868	288	5.67	3.27	108	72.0	136	83.3	701	122	0.465
	6.3	22.2	28.5	903	299	5.66	3.26	113	74.8	142	86.8	730	127	0.464
	7.1	24.7	31.5	994	327	5.62	3.22	124	81.7	158	95.9	804	139	0.462
	8.0	27.6	35.2	1091	356	5.57	3.18	136	89.0	175	106	883	151	0.459
180 x 100	8.8	30.1	38.3	1172	379	5.53	3.15	147	94.9	189	114	949	161	0.457
	10.0	33.7	42.9	1284	411	5.47	3.10	161	103	209	125	1041	175	0.454
	12.0	39.5	50.3	1449	455	5.37	3.01	181	114	240	142	1175	194	0.449
	12.5	40.9	52.1	1485	465	5.34	2.99	186	116	247	146	1204	198	0.448
	5.0	21.0	26.7	1153	460	6.57	4.15	128	92	157	104	1042	154	0.547
	5.6	23.4	29.8	1272	506	6.54	4.12	141	101	174	115	1152	169	0.546
180 x 100	6.0	24.9	31.8	1350	536	6.52	4.11	150	107	186	123	1224	179	0.545
	6.3	26.1	33.3	1407	557	6.50	4.09	156	111	194	128	1277	186	0.544
	7.1	29.2	37.2	1555	613	6.47	4.06	173	123	215	142	1413	205	0.542
	8.0	32.6	41.6	1713	671	6.42	4.02	190	134	239	157	1560	224	0.539
	8.8	35.6	45.4	1847	720	6.38	3.98	205	144	259	170	1685	240	0.537
	10.0	40.0	50.9	2036	787	6.32	3.93	226	157	288	188	1862	263	0.534

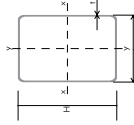
RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area As mm ²
				Ixx cm ⁴	Iyy cm ⁴	ixx cm	iyy cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plx} cm ³	W _{ply} cm ³	It cm ⁴	Ct cm ³	
180 x 100	12.0	47.0	59.9	2320	886	6.22	3.85	258	177	333	216	2130	296	0.529
	12.5	48.7	62.1	2385	908	6.20	3.82	265	182	344	223	2191	303	0.528
200 x 100	5.0	22.6	28.7	1495	505	7.21	4.19	149	101	185	114	1204	172	0.587
	5.6	25.1	32.0	1652	556	7.18	4.17	165	111	205	126	1331	189	0.586
	6.0	26.8	34.2	1754	589	7.16	4.15	175	118	218	134	1414	200	0.585
	6.3	28.1	35.8	1829	613	7.15	4.14	183	123	228	140	1475	208	0.584
	7.1	31.4	40.0	2024	674	7.11	4.10	202	138	254	155	1634	229	0.582
	8.0	35.1	44.8	2234	739	7.06	4.06	223	148	282	172	1804	251	0.579
	8.8	38.4	48.9	2412	793	7.02	4.03	241	159	306	186	1950	270	0.577
	10.0	43.1	54.9	2664	869	6.96	3.98	266	174	341	206	2156	295	0.574
	12.0	50.8	64.7	3047	979	6.86	3.89	305	196	395	237	2469	333	0.569
	12.5	52.7	67.1	3136	1004	6.84	3.87	314	201	408	245	2541	341	0.568
	14.2	58.9	75.0	3416	1080	6.75	3.80	342	216	450	268	2770	368	0.563
	16.0††	65.2	83.0	3678	1147	6.66	3.72	368	229	491	290	2982	391	0.559
200 x 120	5.0	24.1	30.7	1685	762	7.40	4.98	168	127	205	144	1648	210	0.627
	5.6	26.9	34.2	1863	841	7.38	4.95	186	140	227	159	1826	231	0.626
	6.0	28.7	36.6	1980	892	7.36	4.94	198	149	242	169	1942	245	0.625



RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area As mm ²
				Ixx cm ⁴	Iyy cm ⁴	ixx cm	iyy cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plx} cm ³	W _{ply} cm ³	It cm ⁴	Ct cm ³	
200 x 120	6.3	30.1	38.3	2065	929	7.34	4.92	207	155	253	177	2028	255	0.624
	7.1	33.7	42.9	2288	1025	7.30	4.89	229	171	281	197	2252	282	0.622
	8.0	37.6	48.0	2529	1128	7.26	4.85	253	188	313	218	2495	310	0.619
	8.8	41.1	52.4	2734	1215	7.22	4.82	273	203	340	237	2703	334	0.617
	10.0	46.3	58.9	3026	1337	7.17	4.76	303	223	379	263	3001	367	0.614
	12.0	54.6	69.5	3472	1520	7.07	4.68	347	253	440	305	3461	417	0.609
	12.5	56.6	72.1	3576	1562	7.04	4.66	358	260	455	314	3569	428	0.608
	14.2	63.3	80.7	3907	1693	6.96	4.58	391	282	503	346	3915	464	0.603
	16.0	70.2	89.4	4221	1813	6.87	4.50	422	302	550	377	4247	497	0.599
	5.0	26.5	33.7	1970	1265	7.64	6.12	197	169	234	192	2386	267	0.687
	5.6	29.5	37.6	2181	1398	7.61	6.10	218	186	260	213	2648	295	0.686
	6.0	31.5	40.2	2318	1485	7.60	6.08	232	198	277	227	2820	313	0.685
200 x 150	6.3	33.0	42.1	2420	1549	7.58	6.07	242	207	282	227	2947	326	0.684
	7.1	37.0	47.1	2685	1715	7.55	6.03	268	229	322	264	3280	361	0.682
	8.0	41.4	52.8	2971	1894	7.50	5.99	297	253	359	294	3643	398	0.679
	8.8	45.3	57.7	3217	2047	7.47	5.96	322	273	390	319	3956	430	0.677
	10.0	51.0	64.9	3568	2264	7.41	5.91	357	302	436	356	4409	475	0.674
	12.0	60.2	76.7	4109	2596	7.32	5.82	411	346	508	414	5119	543	0.669
	12.5	62.5	79.6	4236	2673	7.30	5.80	424	356	525	428	5287	559	0.668
	14.2	70.0	89.2	4644	2919	7.22	5.72	464	389	582	473	5834	610	0.663
	16.0	77.7	99.0	5036	3152	7.13	5.64	504	420	638	518	6370	658	0.659
	5.0	26.5	33.7	1970	1265	7.64	6.12	197	169	234	192	2386	267	0.687
	5.6	29.5	37.6	2181	1398	7.61	6.10	218	186	260	213	2648	295	0.686
	6.0	31.5	40.2	2318	1485	7.60	6.08	232	198	277	227	2820	313	0.685
	6.3	33.0	42.1	2420	1549	7.58	6.07	242	207	282	227	2947	326	0.684



RECTANGULAR HOLLOW SECTIONS

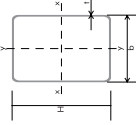
Size	H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
					I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{p1xx} cm ³	W _{p1yy} cm ³	It cm ⁴	Ct cm ³	
250 x 100		5.0	26.5	33.7	2610	618	8.80	4.28	209	124	263	138	1617	217	0.687
		5.6	29.5	37.6	2889	681	8.77	4.25	231	136	292	152	1789	239	0.686
		6.0	31.5	40.2	3072	721	8.74	4.24	246	144	311	162	1901	253	0.685
		6.3	33.0	42.1	3207	751	8.73	4.22	257	150	326	169	1983	264	0.684
		7.1	37.0	47.1	3559	827	8.69	4.19	285	165	363	188	2198	291	0.682
		8.0	41.4	52.8	3940	909	8.64	4.15	315	182	404	209	2430	319	0.679
		8.8	45.3	57.7	4266	977	8.60	4.12	341	195	439	226	2627	343	0.677
		10.0	51.0	64.9	4733	1072	8.54	4.06	379	214	491	251	2908	376	0.674
250 x 150		5.0	30.4	38.7	3360	1527	9.31	6.28	269	204	324	228	3278	337	0.787
		5.6	33.9	43.2	3726	1690	9.29	6.25	298	225	361	254	3640	373	0.786
		6.0	36.2	46.2	3965	1796	9.27	6.24	317	239	385	270	3877	396	0.785
		6.3	38.0	48.4	4143	1874	9.25	6.22	331	250	402	283	4054	413	0.784
		7.1	42.6	54.2	4606	2078	9.22	6.19	368	277	449	315	4515	457	0.782
		8.0	47.7	60.8	5111	2298	9.17	6.15	409	306	501	350	5021	506	0.779
		8.8	50.8	65.8	5545	2486	9.13	6.12	444	331	545	381	5457	547	0.777
		10.0	58.8	74.9	6174	2755	9.08	6.06	494	367	611	426	6090	605	0.774

RECTANGULAR HOLLOW SECTIONS

Size H × B mm	Thickness T mm	Mass M mm	Sectional Area A cm²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m²/m
				I _{xx} cm⁴	I _{yy} cm⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm³	W _{elyy} cm³	W _{p1xx} cm³	W _{p1yy} cm³	I _t cm⁴	C _t cm³	
250 × 150	8.8	52.2	66.5	5546	2486	9.13	6.12	444	331	545	381	5457	547	0.7777
	10.0	58.8	74.9	6174	2755	9.08	6.06	494	367	611	426	6090	605	0.7774
	12.0	69.6	88.1	7154	3168	8.98	5.98	572	422	715	497	7088	695	0.769
	12.5	72.3	92.1	7387	3265	8.96	5.96	591	435	740	514	7326	717	0.768
	14.2	81.1	103	8141	3576	8.87	5.88	651	477	823	570	8102	784	0.763
	16.0	90.3	115	8879	3873	8.79	5.80	710	516	906	625	8868	849	0.759
260 × 140	5.0	30.4	38.7	3532	1354	9.55	5.91	272	193	331	216	3078	326	0.787
	5.6	33.9	43.2	3916	1498	9.52	5.89	301	214	368	240	3417	360	0.786
	6.0	36.2	46.2	4168	1591	9.50	5.87	321	227	393	255	3638	383	0.785
	6.3	38.0	48.4	4355	1660	9.49	5.86	335	237	411	267	3803	399	0.784
	7.1	42.6	54.2	4842	1839	9.45	5.82	372	263	459	298	4234	442	0.782
	8.0	47.7	60.8	5373	2032	9.40	5.78	413	290	511	331	4704	488	0.779
	8.8	52.2	66.5	5831	2197	9.37	5.75	449	314	557	360	5110	527	0.777
	10.0	58.8	74.9	6490	2432	9.31	5.70	499	347	624	402	5698	584	0.774
	12.0	69.6	88.7	7522	2792	9.21	5.61	579	399	730	469	6621	670	0.769

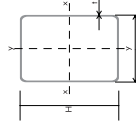
RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus	Torsional Constants	Sectional Area/m ² AS
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{p1xx} cm ³	W _{p1yy} cm ³	
260 x 140	12.5	72.3	92.1	7767	2876	9.18	5.59	597	411	756	485	0.768
	14.2	81.1	103	8560	3144	9.10	5.52	658	449	840	537	0.763
	16.0	90.3	115	9337	3400	9.01	5.44	718	486	925	588	0.759
300 x 100	5.0	30.4	38.7	4146	731	10.3	4.34	276	146	354	161	0.787
	5.6	33.9	43.2	4598	806	10.3	4.32	307	161	393	179	0.786
	6.0	36.2	46.2	4893	854	10.3	4.30	326	171	419	190	0.785
	6.3	38.0	48.4	5111	890	10.3	4.29	341	178	439	199	0.784
	7.1	42.6	54.2	5683	981	10.2	4.25	379	196	490	221	0.782
	8.0	47.7	60.8	6305	1078	10.2	4.21	420	216	546	245	0.779
	8.8	52.2	66.5	6841	1160	10.1	4.18	456	232	594	266	0.777
	10.0	58.8	74.9	7613	1275	10.1	4.13	508	255	666	296	0.774
	12.0	69.6	88.7	8818	1447	9.97	4.04	588	289	779	343	0.769
	12.5	72.3	92.1	9103	1486	9.94	4.02	607	297	806	354	0.768
	14.2	81.1	103	10028	1607	9.85	3.94	669	321	896	390	0.763
	16.0	90.3	115	10931	1719	9.75	3.87	729	344	986	425	0.759
300x 200	5.0	38.3	48.7	6322	3396	11.4	8.35	421	340	501	380	0.987
	5.6	42.7	54.4	7025	3769	11.4	8.32	468	377	558	423	0.986



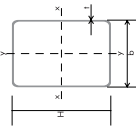
RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m ² As
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{p1xx} cm ³	W _{p1yy} cm ³	It cm ⁴	Ct cm ³	
300 x 200	6.0	45.7	58.2	7486	4013	11.3	8.31	499	401	596	451	8100	651	0.985
	6.3	47.9	61.0	7829	4193	11.3	8.29	522	419	624	472	8476	681	0.984
	7.1	53.7	68.4	8729	4667	11.3	8.26	582	467	698	528	9469	757	0.982
	8.0	60.3	76.8	9717	5184	11.3	8.22	648	518	779	589	10562	840	0.979
	8.8	66.0	84.1	10573	5631	11.2	8.18	705	563	851	643	11514	912	0.977
	10.0	74.5	94.9	11819	6278	11.2	8.13	788	628	936	721	12908	1015	0.974
	12.0	88.5	113	13797	7294	11.1	8.05	920	729	1124	847	15137	1178	0.969
	12.5	91.9	117	14273	7537	11.0	8.02	952	754	1165	877	15677	1217	0.968
300 x 250	14.2	103	132	15832	8328	11.0	7.95	1055	833	1302	978	17457	1343	0.963
	16.0	115	147	17390	9109	10.9	7.87	1159	911	1441	1080	19252	1468	0.959
	6.0	50.4	64.2	8783	6645	11.7	10.2	586	532	684	604	11609	824	1.08
	6.3	52.8	67.3	9188	6950	11.7	10.2	613	556	716	633	12155	862	1.08
	7.1	59.3	75.5	10252	7749	11.6	10.1	683	620	802	708	13595	960	1.08
	8.0	66.5	84.8	11422	8627	11.6	10.1	761	690	896	791	15187	1067	1.08
	8.8	72.9	92.9	12439	9388	11.6	10.1	829	751	979	864	16578	1160	1.08
	10.0	82.4	105	13923	10496	11.5	10.0	928	840	1101	971	18620	1295	1.07
12.0	97.9	125	16287	12256	11.4	9.91	1086	981	1297	1143	21910	1509	1.07	
12.5	102	130	16857	12680	11.4	9.89	1124	1014	1345	1185	22711	1560	1.07	



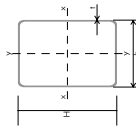
RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m ²
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	It cm ⁴	Ct cm ³	
300 x 250	14.2	115	146	18734	14070	11.3	9.82	1249	1126	1505	1325	25365	1728	1.06
	16.0	128	163	20620	15460	11.2	9.74	1375	1237	1668	1467	28064	1896	1.06
350 x 150	6.0	45.7	58.2	9066	2418	12.5	6.45	518	322	645	357	6110	562	0.985
	6.3	47.9	61.0	9481	2525	12.5	6.43	542	337	676	373	6389	586	0.984
	7.1	53.7	68.4	10572	2803	12.4	6.40	604	374	756	416	7122	651	0.982
	8.0	60.3	76.8	11770	3105	12.4	6.36	673	414	844	464	7926	721	0.979
	8.8	66.0	84.1	12808	3364	12.3	6.33	732	449	922	506	8622	781	0.977
	10.0	74.5	94.9	14320	3737	12.3	6.27	818	498	1035	566	9633	867	0.974
	12.0	88.5	113	16720	4314	12.2	6.19	955	575	1218	663	11235	1000	0.969
	12.5	91.9	117	17297	4450	12.2	6.17	988	593	1263	686	11619	1032	0.968
	14.2	103	132	19189	4890	12.1	6.09	1097	652	1411	763	12875	1134	0.963
	16.0	115	147	21079	5317	12.0	6.01	1205	709	1561	840	14124	1233	0.959
350 x 250	6.0	55.1	70.2	12616	7538	13.4	10.4	721	603	852	677	14529	967	1.18
	6.3	57.8	73.6	13203	7885	13.4	10.4	754	631	892	709	15215	1011	1.18
	7.1	64.9	82.6	14747	8796	13.4	10.3	843	704	999	794	17024	1127	1.18
	8.0	72.8	92.8	16449	9798	13.3	10.3	940	784	1118	888	19027	1254	1.18
	8.8	79.8	102	17932	10668	13.3	10.2	1025	853	1222	970	20778	1365	1.18



RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m ²
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	It cm ⁴	Ct cm ³	
350 x 250	10.0	90.2	115	20102	11937	13.2	10.2	1149	955	1375	1091	23354	1525	1.17
	12.0	107	137	23577	13957	13.1	10.1	1347	1117	1624	1286	27513	1781	1.17
	12.5	112	142	24419	14444	13.1	10.1	1395	1156	1685	1334	28526	1842	1.17
	14.2	126	160	27200	16046	13.0	10.0	1554	1284	1887	1492	31892	2044	1.16
	16.0	141	179	30011	17654	12.9	9.93	1715	1412	2095	1655	35325	2246	1.16
400 x 120	16.0	47.6	60.6	11272	1672	13.6	5.25	564	279	727	306	4824	505	1.02
	6.3	49.9	63.5	11790	1744	13.6	5.24	590	291	762	320	5039	527	1.02
	7.1	56.0	71.3	13150	1932	13.6	5.21	658	322	852	357	5603	584	1.02
	8.0	62.8	80.0	14644	2134	13.5	5.17	732	356	952	397	6218	645	1.02
	8.8	68.8	87.6	15940	2306	13.5	5.13	797	384	1040	432	6746	697	1.02
	10.0	77.7	98.9	17829	2551	13.4	5.08	891	425	1168	483	7509	771	1.01
	12.0	92.2	117	20830	2926	13.3	4.99	1042	488	1375	564	8698	889	1.01
	12.5	95.8	122	21552	3013	13.3	4.97	1078	502	1426	583	8980	911	1.01
	14.2	108	137	23923	3292	13.2	4.89	1196	549	1593	646	9893	996	1.00
	16.0	120	153	26295	3558	13.1	4.82	1315	593	1764	709	10783	1077	1.00
400 x 150	6.0	50.4	64.2	12669	2730	14.1	6.52	633	364	798	400	7262	645	1.08
	6.3	52.8	67.3	13255	2851	14.0	6.51	663	380	836	418	7595	673	1.08
	7.1	59.3	75.5	14794	3166	14.0	6.47	740	422	936	467	8467	748	1.08



RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m mm
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	It cm ⁴	Ct cm ³	
400 x 150	8.0	66.5	84.8	16488	3509	13.9	6.43	824	468	1046	521	9424	828	1.08
	8.8	72.9	92.9	17961	3804	13.9	6.40	898	507	1143	568	10254	898	1.08
	10.0	82.4	105	20111	4227	13.8	6.35	1006	564	1285	636	11460	998	1.07
	12.0	97.9	125	23541	4887	13.7	6.26	1177	652	1515	745	13372	1153	1.07
	12.5	102	130	24369	5043	13.7	6.24	1218	672	1571	772	13831	1190	1.07
	14.2	115	146	27095	5547	13.6	6.16	1355	740	1758	859	15333	1309	1.06
	16.0	128	163	29836	6038	13.5	6.09	1492	805	1948	947	16829	1426	1.06
400 x 200	6.0	55.1	70.2	14998	5142	14.6	8.56	750	514	917	568	12049	877	1.18
	6.3	57.8	73.6	15696	5376	14.6	8.55	785	538	960	594	12612	917	1.18
	7.1	64.9	82.6	17535	5989	14.6	8.51	877	599	1073	665	14096	1021	1.18
	8.0	72.8	92.8	19562	6660	14.5	8.47	978	666	1203	743	15735	1135	1.18
	8.8	79.8	102	21328	7241	14.5	8.44	1066	724	1315	811	17164	1233	1.18
	10.0	90.2	115	23914	8084	14.4	8.39	1196	808	1480	911	19259	1376	1.17
	12.0	107	137	28059	9418	14.3	8.30	1403	942	1748	1072	22622	1602	1.17
	12.5	112	142	29063	9738	14.3	8.28	1453	974	1813	1111	23438	1656	1.17
	14.2	126	160	32381	10784	14.2	8.21	1619	1078	2032	1242	26137	1834	1.16
	16.0	141	179	35738	11824	14.1	8.13	1787	1182	2256	1374	28871	2010	1.16

RECTANGULAR HOLLOW SECTIONS

Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m mm
				I _{xx} cm ⁴	I _{yy} cm ⁴	I _{xx} cm	I _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	It cm ⁴	Ct cm ³	
400 x 300	8.0	85.4	109	25702	16540	15.4	12.3	1285	1103	1517	1247	31014	1749	1.38
	8.8	93.6	119	28063	18037	15.3	12.3	1403	1202	1659	1363	33908	1906	1.38
	10.0	106	135	31521	20233	15.3	12.2	1576	1349	1870	1536	38180	2135	1.37
	12.0	126	161	37094	23756	15.2	12.2	1855	1584	2213	1816	45113	2503	1.37
	12.5	131	167	38451	24611	15.2	12.1	1923	1641	2298	1884	46810	2592	1.37
	14.2	148	189	42954	27441	15.1	12.1	2148	1829	2579	2113	52472	2887	1.36
	16.0	166	211	47541	30309	15.0	12.0	2377	2021	2870	2349	58286	3184	1.36
450 x 250	8.0	85.4	109	30082	12142	16.6	10.6	1337	971	1622	1081	27083	1629	1.38
	8.8	93.6	119	32840	13229	16.6	10.5	1460	1058	1774	1182	29590	1774	1.38
	10.0	106	135	36895	14819	16.5	10.5	1640	1185	2000	1331	33284	1986	1.37
	12.0	126	161	43434	17359	16.4	10.4	1930	1389	2367	1572	39260	2324	1.37
	12.5	131	167	45026	17973	16.4	10.4	2001	1438	2458	1631	40719	2406	1.37
	14.2	148	189	50315	19999	16.3	10.3	2236	1600	2759	1827	45577	2675	1.36
	16.0	166	211	55705	22041	16.2	10.2	2476	1763	3070	2029	50545	2947	1.36