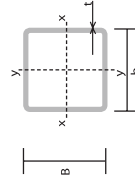


MILD STEEL SQUARE HOLLOW SECTIONS

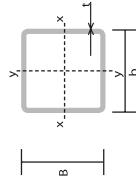
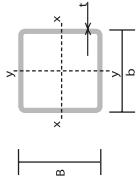


SQUARE HOLLOW SECTIONS

Size B × B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per Metre m m ² /m
								I_t cm ⁴	C_t cm ³	
40 × 40	2.5	2.89	3.68	8.54	1.52	4.27	5.14	13.6	6.22	0.154
	3.0	3.41	4.34	9.78	1.50	4.89	5.97	15.7	7.10	0.152
	3.2	3.61	4.60	10.20	1.49	5.11	6.28	16.5	7.42	0.152
	4.0	4.39	5.59	11.80	1.45	5.91	7.44	19.5	8.54	0.150
	4.9	5.20	6.62	13.20	1.41	6.62	8.55	22.2	9.51	0.147
50 × 50	5.0	5.28	6.73	13.40	1.41	6.68	8.66	22.5	9.60	0.147
	2.5	3.68	4.68	17.50	1.93	6.99	8.29	27.5	10.20	0.194
	3.0	4.35	5.54	20.20	1.91	8.08	9.70	32.1	11.80	0.192
	3.2	4.62	5.88	21.20	1.90	8.49	10.20	33.8	12.40	0.192
	4.0	5.64	7.19	25.00	1.86	9.99	12.30	40.4	14.50	0.190
60 × 60	4.9	6.74	8.58	28.50	1.82	11.40	14.30	46.9	16.50	0.187
	5.0	6.85	8.73	28.90	1.82	11.60	14.50	47.6	16.70	0.187
	6.0	7.99	10.20	32.00	1.77	12.80	16.50	53.6	18.40	0.185
	6.3	8.31	10.60	32.80	1.76	13.10	17.00	55.2	18.80	0.184
	3.0	5.29	6.74	36.20	2.32	12.10	14.30	56.9	17.70	0.232
60 × 60	3.2	5.62	7.16	38.20	2.31	12.70	15.20	60.2	18.60	0.232
	4.0	6.90	8.79	45.4	2.27	15.10	18.30	72.5	22.0	0.230
	4.9	8.28	10.5	52.5	2.23	17.50	21.60	85.1	25.4	0.227
	5.0	8.42	10.7	53.3	2.23	17.80	21.90	86.4	25.7	0.227
	6.0	9.87	12.6	59.9	2.18	20.00	25.10	98.6	28.8	0.225

SQUARE HOLLOW SECTIONS

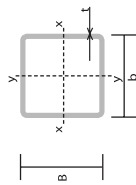
Size B × B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I_t cm ⁴	C_t cm ³	
60 × 60	6.3	10.3	13.1	61.6	2.17	20.50	26.0	102	29.6	0.224
	8.0	12.5	16.0	69.7	2.09	23.20	30.4	118	33.4	0.219
70 × 70	3.0	6.24	7.94	59.0	2.73	16.90	19.9	92.2	24.8	0.272
	3.2	6.63	8.44	62.3	2.72	17.80	21.0	97.6	26.1	0.272
	3.6	7.40	9.42	68.6	2.70	19.60	23.3	108	28.7	0.271
	4.0	8.15	10.4	74.7	2.68	21.30	25.5	118	31.2	0.270
	4.9	9.81	12.5	87.2	2.64	24.90	30.3	140	36.2	0.267
	5.0	9.99	12.7	88.5	2.64	25.30	30.8	142	36.8	0.267
	6.0	11.8	15.0	101.0	2.59	28.70	35.5	163	41.6	0.265
	6.3	12.3	15.6	104.0	2.58	29.70	36.9	169	42.9	0.264
	7.1	13.6	17.3	112.0	2.54	32.00	40.3	185	46.1	0.262
	8.0	15.0	19.2	120.0	2.50	34.20	43.8	200	49.2	0.259
	8.4									
	10.38									
	12.31									



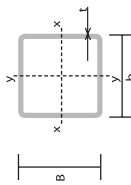
SQUARE HOLLOW SECTIONS

Size B × B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I_t cm ⁴	C_t cm ³	
76.2 × 76.2	3.2	7.25	9.23	81.5	2.97	21.40	25.2	127	31.4	0.297
	3.6	8.10	10.3	89.9	2.95	23.60	27.9	141	34.6	0.296
	4.0	8.93	11.4	98.0	2.93	25.70	30.6	154	37.6	0.294
	4.9	10.8	13.7	115.0	2.89	30.20	36.4	183	43.9	0.292
	5.0	11.0	14.0	117.0	2.89	30.60	37.0	186	44.6	0.292
	6.0	12.9	16.5	133.0	2.85	35.00	42.9	215	50.7	0.289
	6.3	13.5	17.2	138.0	2.83	36.20	44.6	223	52.4	0.289
	7.1	15.0	19.1	149.0	2.80	39.10	48.8	244	56.6	0.287
	8.0	16.6	21.1	160.0	2.75	42.10	53.2	265	60.7	0.284
80 × 80	3.2	7.63	9.72	95.0	3.13	23.7	27.9	148	34.9	0.312
	3.6	8.53	10.9	105	3.11	26.2	31.0	164	38.5	0.311
	4.0	9.41	12.0	114	3.09	28.6	34.0	180	41.9	0.310
	4.9	11.4	14.5	135	3.05	33.6	40.4	214	49.0	0.307
	5.0	11.6	14.7	137	3.05	34.2	41.1	217	49.8	0.307
	5.6	12.8	16.3	149	3.02	37.2	45.2	238	54.1	0.306
	6.0	13.6	17.4	156	3.00	39.1	47.8	252	56.8	0.305
	6.3	14.1	18.1	162	2.99	40.5	49.7	262	58.7	0.304
	7.1	15.8	20.2	176	2.95	43.9	54.5	286	63.5	0.302
	8.0	17.5	22.4	189	2.91	47.3	59.5	312	68.3	0.299

SQUARE HOLLOW SECTIONS



Size B × B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration r cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per m ²
								I_t cm ⁴	C_t cm ³	
90 × 90	3.6	9.66	12.3	152	3.52	33.8	39.7	237	49.7	0.351
	4.0	10.7	13.6	166	3.50	37.0	43.6	260	54.2	0.350
	4.9	12.9	16.4	196	3.46	43.6	52.1	310	63.8	0.347
	5.0	13.1	16.7	200	3.45	44.4	53.0	316	64.8	0.347
	5.6	14.6	18.6	218	3.43	48.5	58.3	347	70.7	0.346
	6.0	15.5	19.8	230	3.41	51.1	61.8	367	74.3	0.345
	6.3	16.2	20.7	238	3.40	53.0	64.3	382	77.0	0.344
	7.1	18.1	23.0	260	3.36	57.7	70.8	419	83.7	0.342
	8.0	20.1	25.6	281	3.32	62.6	77.6	459	90.5	0.339
100 × 100	3.6	10.8	13.7	212	3.92	42.3	49.5	328	62.3	0.391
	4.0	11.9	15.2	232	3.91	46.4	54.4	361	68.2	0.390
	4.9	14.4	18.4	275	3.87	55.0	65.2	432	80.5	0.387
	5.0	14.7	18.7	279	3.86	55.9	66.4	439	81.8	0.387
	5.6	16.3	20.8	306	3.84	61.2	73.2	484	89.5	0.386
	6.0	17.4	22.2	323	3.82	64.6	77.6	513	94.3	0.385
	6.3	18.2	23.2	336	3.80	67.1	80.9	534	97.8	0.384
	7.1	20.3	25.8	367	3.77	73.4	89.2	589	107	0.382
	8.0	22.6	28.8	400	3.73	79.9	98.2	646	116	0.379
	10.0	27.4	34.9	462	3.64	92.4	116	761	133	0.374



SQUARE HOLLOW SECTIONS

Size B × B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration r cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per m ²
								I_t cm ⁴	C_t cm ³	
120 × 120	4.0	14.4	18.4	410	4.72	68.4	79.7	635	101	0.470
	4.9	17.5	22.3	489	4.68	81.5	95.8	763	120	0.467
	5.0	17.8	22.7	498	4.68	83.0	97.6	777	122	0.467
	5.6	19.9	25.3	579	4.65	91.2	108	858	134	0.466
	6.0	21.2	27.0	579	4.63	96.6	115	911	141	0.465
	6.3	22.2	28.2	603	4.62	100	120	950	147	0.464
	7.1	24.7	31.5	663	4.59	110	133	1051	161	0.462
	8.0	27.6	35.2	726	4.55	121	146	1160	176	0.459
	8.8	30.1	38.3	779	4.51	130	158	1252	189	0.457
	10.0	33.7	42.9	852	4.46	142	175	1382	206	0.454
140 × 140	12.0	39.5	50.3	958	4.36	160	201	1578	230	0.449
	12.5	40.9	52.1	982	4.34	164	207	1623	236	0.448
	4.9	20.6	26.2	793	5.50	113	132	1230	167	0.547
	5.0	21.0	26.7	807	5.50	115	135	1253	170	0.547
	5.6	23.4	29.8	891	5.47	127	149	1387	187	0.546
	6.0	24.9	31.8	944	5.45	135	159	1475	198	0.545
	6.3	26.1	33.3	984	5.44	141	166	1540	206	0.544
	7.1	29.2	37.2	1086	5.40	155	184	1709	227	0.542
	8.0	32.6	41.6	1195	5.36	171	204	1892	249	0.539
	8.8	35.6	45.4	1287	5.33	184	221	2048	268	0.537
	10.0	40.0	50.9	1416	5.27	202	246	2272	294	0.534
	12.0	47.0	59.9	1609	5.18	230	284	2616	333	0.529
	12.5	48.7	62.1	1653	5.16	236	293	2696	342	0.528

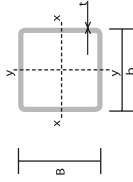
SQUARE HOLLOW SECTIONS

Size $B \times B$ mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration r cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per m m^2/m
								I_t cm ⁴	C_t cm ³	
150 x 150	4.9	22.1	28.2	984	5.91	131	153	1522	193	0.587
	5.0	22.6	28.7	1002	5.90	134	156	1550	197	0.587
	5.6	25.1	32.0	1106	5.88	147	173	1718	217	0.586
	6.0	26.8	34.2	1174	5.86	156	184	1828	230	0.585
	6.3	28.1	35.8	1223	5.85	163	192	1909	240	0.584
	7.1	31.4	40.0	1352	5.81	180	213	2121	264	0.582
150 x 150	8.0	35.1	44.8	1491	5.77	199	237	2351	291	0.579
	8.8	38.4	48.9	1608	5.74	214	257	2549	313	0.577
	10.0	43.1	54.9	1773	5.68	236	286	2832	344	0.574
	12.0	50.8	64.7	2023	5.59	270	331	3272	391	0.569
	12.5	52.7	67.1	2080	5.57	277	342	3375	402	0.568
	16.0	65.2	83.0	2430	5.41	324	411	4026	467	0.559
160 x 160	5.0	24.1	30.7	1225	6.31	153	178	1892	226	0.627
	5.6	26.9	34.2	1353	6.29	169	198	2098	249	0.626
	6.0	28.7	36.6	1437	6.27	180	210	2233	264	0.625
	6.3	30.1	38.3	1499	6.26	187	220	2333	275	0.624

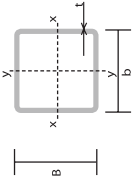


SQUARE HOLLOW SECTIONS

Size $B \times B$ mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration r cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per m m^2/m
								I_t cm ⁴	C_t cm ³	
160 x 160	7.1	33.7	42.9	1659	6.22	207	245	2595	304	0.622
	8.0	37.6	48.0	1831	6.18	229	272	2880	335	0.619
	8.8	41.1	52.4	1978	6.14	247	295	3125	361	0.617
	10.0	46.3	58.9	2186	6.09	273	329	3478	398	0.614
	12.0	54.6	69.5	2502	6.00	313	382	4028	454	0.609
	12.5	56.6	72.1	2576	5.98	322	395	4158	467	0.608
160 x 160	14.2	60.3	80.7	2809	5.90	351	436	4579	508	0.603
	16.0	70.2	89.4	3028	5.82	379	476	4988	546	0.599
180 x 180	5.0	27.3	34.7	1765	7.13	196	227	2718	290	0.707
	5.6	30.4	38.7	1954	7.10	217	252	3018	320	0.706
	6.0	32.5	41.4	2077	7.09	231	269	3215	340	0.705
	6.3	34.0	43.3	2168	7.07	241	281	3361	355	0.704
	7.1	38.1	48.6	2404	7.04	267	314	3744	393	0.702
	8.0	42.7	54.4	2661	7.00	296	349	4162	434	0.699
180 x 180	8.8	46.7	59.4	2880	6.96	320	379	4524	469	0.697
	10.0	52.5	66.9	3193	6.91	355	424	5048	518	0.694
	12.0	62.1	79.1	3677	6.82	409	494	5873	595	0.689
	12.5	64.4	82.1	3790	6.80	421	511	6070	613	0.688
	14.2	72.2	92.9	4154	6.72	462	566	6711	670	0.683
	16.0	80.2	102	4504	6.64	500	621	7343	724	0.679

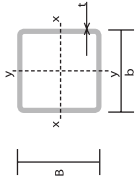


SQUARE HOLLOW SECTIONS



Size B × B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
200 x 200	5.0	30.4	38.7	2445	7.95	245	283	3756	362	0.787
	5.6	33.9	43.2	2710	7.92	271	314	4174	401	0.786
	6.0	36.2	46.2	2883	7.90	288	335	4449	426	0.785
	6.3	38.0	48.4	3011	7.89	301	350	4653	444	0.784
	7.1	42.6	54.2	3345	7.85	335	391	5189	493	0.782
	8.0	47.7	60.8	3709	7.81	371	436	5778	545	0.779
200 x 200	8.8	52.2	66.5	4021	7.78	402	474	6288	590	0.777
	10.0	58.8	74.9	4471	7.72	447	531	7031	655	0.774
	12.0	69.6	88.7	5171	7.64	517	621	8208	754	0.769
	12.5	72.3	92.1	5336	7.61	534	643	8491	778	0.768
	14.2	81.1	103	5872	7.54	587	714	9417	854	0.763
	16.0	90.3	115	6394	7.46	639	785	10340	927	0.759

SQUARE HOLLOW SECTIONS



Size B × B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
250 x 250	5.0	38.3	48.7	4861	9.99	389	447	7430	577	0.987
	5.6	42.7	54.4	5399	9.96	432	498	8271	640	0.986
	6.0	45.7	58.2	5752	9.94	460	531	8825	681	0.985
	6.3	47.9	61.0	6014	9.93	481	556	9238	712	0.984
	7.1	53.7	68.4	6701	9.90	536	622	10325	792	0.982
	8.0	60.3	76.8	7455	9.86	596	694	11525	880	0.979
300 x 300	8.8	66.0	84.1	8107	9.82	649	758	12572	955	0.977
	10.0	74.5	94.9	9055	9.77	724	851	14106	1065	0.974
	12.0	88.5	113	10556	9.68	844	1000	16567	1237	0.969
	12.5	91.9	117	10915	9.66	873	1037	17164	1279	0.968
	14.2	103	132	12094	9.58	967	1158	19139	1413	0.963
	16.0	115	147	13267	9.50	1061	1280	21138	1546	0.959
300 x 300	8.0	72.8	92.8	13128	11.9	875	1013	20194	1294	1.18
	16.0	141	179	23884	11.5	1590	1895	37622	1325	1.16
350 x 350	10.0	106	135	25541	13.9	1479	1715	39886	2185	1.37
	12.5	131	167	31541	13.7	1802	2107	48934	2654	1.37