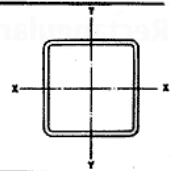


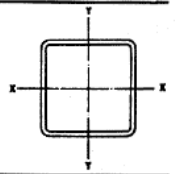
Square



Imperial units

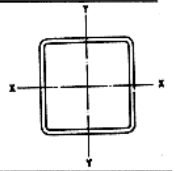
Section size		Wall thickness t		Unit weight M		Section area A	Moment of inertia I	Radius of gyration i	Modulus of section Z
in	mm	in	mm	lb/ft	kg/m	in <sup>2</sup>	in <sup>4</sup>	in	in <sup>3</sup>
1/2 x 1/2	12.7 x 12.7	0.047	1.2	0.272	0.404	0.082	0.002	0.180	0.010
		0.063	1.6	0.364	0.541	0.102	0.003	0.173	0.012
5/8 x 5/8	15.9 x 15.9	0.047	1.2	0.353	0.525	0.106	0.005	0.231	0.018
		0.063	1.6	0.472	0.702	0.134	0.006	0.223	0.021
3/4 x 3/4	19.1 x 19.1	0.047	1.2	0.434	0.646	0.140	0.011	0.288	0.030
		0.063	1.6	0.580	0.863	0.186	0.014	0.282	0.037
		0.095	2.4	0.817	1.230	0.240	0.017	0.270	0.046
1 x 1	25.4 x 25.4	0.047	1.2	0.593	0.883	0.173	0.026	0.385	0.051
		0.063	1.6	0.770	1.150	0.226	0.032	0.376	0.064
		0.091	2.3	1.050	1.563	0.308	0.044	0.371	0.080
		0.095	2.4	1.100	1.640	0.321	0.045	0.358	0.082
		0.120	3.0	1.296	1.929	0.385	0.047	0.350	0.094
1-1/4 x 1-1/4	31.8 x 31.8	0.047	1.2	0.754	1.122	0.220	0.052	0.487	0.084
		0.063	1.6	0.983	1.463	0.290	0.066	0.479	0.106
		0.091	2.3	1.357	2.020	0.414	0.082	0.472	0.140
		0.095	2.4	1.420	2.113	0.416	0.089	0.461	0.142
		0.120	3.0	1.698	2.527	0.505	0.103	0.452	0.165
1-1/2 x 1-1/2	38.1 x 38.1	0.047	1.2	0.915	1.362	0.288	0.093	0.590	0.124
		0.063	1.6	1.200	1.785	0.384	0.120	0.581	0.159
		0.091	2.3	1.666	2.480	0.505	0.160	0.573	0.220
		0.095	2.4	1.740	2.592	0.526	0.163	0.564	0.220
		0.120	3.0	2.100	3.125	0.626	0.192	0.554	0.260
2 x 2	50.8 x 50.8	0.063	1.6	1.626	2.424	0.480	0.300	0.786	0.300
		0.091	2.3	2.282	3.396	0.689	0.410	0.776	0.416
		0.095	2.4	2.380	3.542	0.700	0.415	0.770	0.415
		0.120	3.0	2.943	4.380	0.870	0.494	0.756	0.494
		0.125	3.2	3.051	4.540	0.893	0.508	0.756	0.508
		0.156	4.0	3.70	5.510	1.088	0.589	0.740	0.589
		0.180	4.6	4.173	6.210	1.227	0.653	0.729	0.653
		0.1875	4.8	4.314	6.420	1.269	0.668	0.726	0.668
2-1/2 x 2-1/2	63.5 x 63.5	0.091	2.3	2.898	4.313	0.86	0.82	0.980	0.656
		0.095	2.4	3.030	4.509	0.900	0.85	0.976	0.680
		0.120	3.0	3.760	5.590	1.110	1.02	0.961	0.820
		0.125	3.2	3.907	5.800	1.150	1.053	0.958	0.840
		0.156	4.0	4.760	7.090	1.400	1.241	0.942	0.993
		0.180	4.6	5.406	8.030	1.587	1.38	0.934	1.11
		0.1875	4.8	5.591	8.320	1.644	1.42	0.930	1.14
0.250	6.4	7.122	10.600	2.089	1.69	0.899	1.35		

Square



Section size		Wall thickness t		Unit weight M		Section area A	Moment of inertia I	Radius of gyration i	Modulus of section Z
in	mm	in	mm	lb/ft	kg/m	in <sup>2</sup>	in <sup>4</sup>	in	in <sup>3</sup>
3 x 3	76.2 x 76.2	0.091	2.3	3.515	5.231	1.030	1.44	1.19	0.96
		0.095	2.4	3.670	5.480	1.080	1.503	1.18	1.002
		0.120	3.0	4.576	6.810	1.346	1.83	1.17	1.22
		0.125	3.2	4.751	7.070	1.400	1.89	1.163	1.26
		0.156	4.0	5.820	8.660	1.711	2.251	1.147	1.50
		0.180	4.6	6.620	9.850	1.947	2.52	1.14	1.68
		0.1875	4.8	6.860	10.200	2.019	2.60	1.13	1.73
		0.250	6.4	8.803	13.100	2.589	3.16	1.10	2.10
3-1/2 x 3-1/2	88.9 x 88.9	0.120	3.0	5.390	8.020	1.585	2.98	1.37	1.70
		0.125	3.2	5.600	8.330	1.651	3.10	1.367	1.76
		0.156	4.0	6.880	10.240	2.024	3.71	1.354	2.12
		0.177	4.5	7.739	11.518	2.27	4.10	1.34	2.34
		0.180	4.6	7.862	11.700	2.31	4.16	1.34	2.38
		0.1875	4.8	8.140	12.113	2.394	4.29	1.34	2.45
		0.236	6.0	10.006	14.891	2.99	5.25	1.33	3.00
		0.250	6.4	10.500	15.626	3.10	5.29	1.31	3.02
4 x 4	101.6 x 101.6	0.120	3.0	6.210	9.241	1.825	4.53	1.58	2.27
		0.125	3.2	6.450	9.681	1.902	4.70	1.57	2.34
		0.156	4.0	7.950	11.810	2.34	5.66	1.56	2.83
		0.177	4.5	8.945	13.312	2.63	6.28	1.55	3.14
		0.180	4.6	9.070	13.500	2.67	6.38	1.55	3.19
		0.1875	4.8	9.410	14.003	2.769	6.59	1.54	3.30
		0.236	6.0	11.614	17.285	3.39	7.82	1.52	3.91
		0.250	6.4	12.200	18.200	3.54	8.22	1.51	4.11
		0.3125	7.9	14.800	22.024	4.358	9.58	1.48	4.79
		0.375	9.5	17.300	25.745	5.075	10.7	1.45	5.35
		0.500	12.7	21.600	32.200	6.36	12.3	1.39	6.13
5 x 5	127 x 127	0.156	4.0	10.100	15.000	2.961	11.43	1.97	4.57
		0.177	4.5	11.356	16.901	3.33	12.7	1.97	5.08
		0.180	4.6	11.500	17.113	3.39	12.9	1.96	5.18
		0.1875	4.8	12.000	17.857	3.519	13.4	1.95	5.36
		0.236	6.0	14.830	22.070	4.34	16.0	1.92	6.42
		0.250	6.4	15.656	23.298	4.54	16.9	1.92	6.78
		0.3125	7.9	19.100	28.424	5.608	20.1	1.89	8.02
		0.375	9.5	22.400	33.334	6.575	22.8	1.86	9.11
		0.500	12.7	28.400	42.300	8.356	27.0	1.80	10.8
6 x 6	152.4 x 152.4	0.156	4.0	12.200	18.155	3.583	20.2	2.40	6.73
		0.177	4.5	13.768	20.490	4.04	22.5	2.36	7.50
		0.180	4.6	14.000	20.834	4.103	22.9	2.36	7.65

## Square



Imperial units

Section size		Wall thickness t		Unit weight M		Section area A	Moment of inertia I	Radius of gyration i	Modulus of section Z
in	mm	in	mm	lb/ft	kg/m	in <sup>2</sup>	in <sup>4</sup>	in	in <sup>3</sup>
6 x 6	152.4 x 152.4	0.1875	4.8	14.5	21.60	4.269	23.8	2.36	7.93
		0.236	6.0	18.045	26.856	5.28	28.7	2.33	9.58
		0.250	6.4	19.016	28.30	5.535	30.3	2.33	10.1
		0.3125	7.9	23.317	34.70	6.858	36.3	2.30	12.1
		0.375	9.5	27.5	40.924	8.075	41.6	2.27	13.9
		0.500	12.7	35.2	52.40	10.360	50.5	2.21	16.8
7 x 7	177.8 x 177.8	0.180	4.6	16.4	24.405	4.827	37.1	2.77	10.6
		0.1875	4.8	17.1	25.447	5.019	38.5	2.77	11.0
		0.250	6.4	22.4	33.334	6.589	49.4	2.74	14.1
		0.3125	7.9	27.6	41.073	8.108	59.5	2.71	17.0
		0.375	9.5	32.0	48.00	9.575	68.7	2.68	19.6
		0.500	12.7	42.0	62.502	12.360	84.6	2.62	24.2
8 x 8	203.2 x 203.2	0.180	4.6	18.9	28.126	5.547	56.1	3.18	14.0
		0.1875	4.8	19.6	29.20	5.769	58.2	3.18	14.6
		0.250	6.4	25.8	38.40	7.589	75.1	3.15	18.8
		0.3125	7.9	31.8	47.323	9.358	90.9	3.12	22.7
		0.375	9.5	37.7	56.103	11.08	106	3.09	26.4
		0.500	12.7	48.8	72.622	14.36	131	3.03	32.9
10 x 10	254 x 254	0.250	6.4	32.5	48.512	9.589	151	3.96	30.1
		0.3125	7.9	40.3	60.00	11.86	183	3.93	36.7
		0.375	9.5	47.9	71.282	14.08	214	3.90	42.9
		0.500	12.7	62.4	92.90	18.36	271	3.84	54.2
		0.625	15.9	76.3	113.546	22.40	321	3.78	64.2
12 x 12	304.8 x 304.8	0.250	6.4	39.4	58.63	11.59	265	4.78	44.1
		0.3125	7.9	48.8	72.62	14.36	324	4.75	54.0
		0.375	9.5	58.0	86.40	17.08	380	4.72	63.4
		0.500	12.7	76.0	113.10	22.36	485	4.66	80.9
		0.625	15.9	93.3	139.00	27.43	580	4.60	96.7
14 x 14	355.6 x 355.6	0.375	9.5	68.2	102.00	20.08	615	5.54	87.9
		0.500	12.7	89.6	133.33	26.36	791	5.48	113
		0.625	15.9	110.0	164.00	32.43	952	5.42	136
16 x 16	406.4 x 406.4	0.500	12.7	103.0	154.00	30.36	1,200	6.29	150
		0.625	15.9	127.0	189.00	37.43	1,450	6.23	182