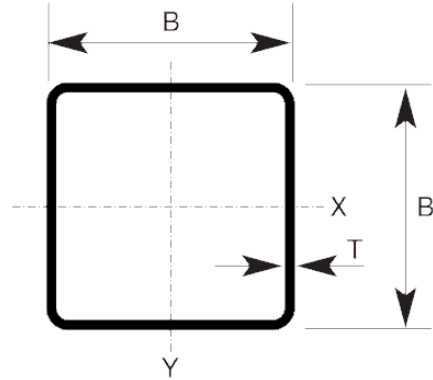


# RAINHAM STEEL

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## Hot Finished Squares

BS EN 10210: 2006



Size B x B mm	Thickness T mm	Mass M kg/m	Area of Section A cm <sup>2</sup>	Moment of Inertia I cm <sup>4</sup>	Radius of Gyration i cm	Elastic Modulus W <sub>el</sub> cm <sup>3</sup>	Plastic Modulus W <sub>pl</sub> cm <sup>3</sup>	Torsional Constants		Superficial Area A <sub>s</sub> m <sup>2</sup> /m	Approx Length /tonne m
								I <sub>t</sub> cm <sup>4</sup>	C <sub>t</sub> cm <sup>3</sup>		
<b>100x100</b>	5	14.7	18.7	279	3.86	55.9	66.4	439	81.8	0.387	68.0
	6.3	18.2	23.2	336	3.80	67.1	80.9	534	97.8	0.384	54.9
	8.0	22.6	28.8	400	3.73	79.9	98.2	646	116	0.379	44.3
	10.0	27.4	34.9	462	3.64	92.4	116	761	133	0.374	36.5
<b>120x120</b>	5.0	17.8	22.7	498	4.68	83.0	97.6	777	122	0.467	56.0
	6.3	22.2	28.2	603	4.62	100	120	950	147	0.464	45.1
	8.0	27.6	35.2	726	4.55	121	146	1160	176	0.459	36.2
	10.0	33.7	42.9	852	4.46	142	175	1382	206	0.454	29.7
	12.5	40.9	52.1	982	4.34	164	207	1623	236	0.448	24.5
<b>140x140</b>	5.0	21.0	26.7	807	5.50	115	135	1253	170	0.547	47.7
	6.3	26.1	33.3	984	5.44	141	166	1540	206	0.544	38.3
	8.0	32.6	41.6	1195	5.36	171	204	1892	249	0.539	30.7
	10.0	40.0	50.9	1416	5.27	202	246	2272	294	0.534	25.0
	12.5	48.7	62.1	1653	5.16	236	293	2696	342	0.528	20.5
<b>150x150</b>	5.0	22.6	28.7	1002	5.90	134	156	1550	197	0.587	44.3
	6.3	28.1	35.8	1223	5.85	163	192	1909	240	0.584	35.6
	8.0	35.1	44.8	1491	5.77	199	237	2351	291	0.579	28.5
	10.0	43.1	54.9	1773	5.68	236	286	2832	344	0.574	23.2
	12.5	52.7	67.1	2080	5.57	277	342	3375	402	0.568	19.0
	16.0	65.2	83.0	2430	5.41	324	411	4026	467	0.559	15.3
<b>180x180</b>	6.3	34.0	43.3	2168	7.07	241	281	3361	355	0.704	29.4
	8.0	42.7	54.4	2661	7.0	296	349	4162	434	0.699	23.4
	10.0	52.5	66.9	3193	6.91	355	424	5048	518	0.694	19.0
	12.5	64.4	82.1	3790	6.80	421	511	6070	613	0.688	15.5
	16.0	80.2	102	4504	6.64	500	621	7343	724	0.679	12.5
<b>200x200</b>	5.0	30.4	38.7	2445	7.95	245	283	3756	362	0.787	32.9
	6.3	38.0	48.4	3011	7.89	301	350	4653	444	0.784	26.3
	8.0	47.7	60.8	3709	7.81	371	436	5778	545	0.779	21
	10.0	58.8	74.9	4471	7.72	447	531	7031	655	0.774	17
	12.5	72.3	92.1	5336	7.61	534	643	8491	778	0.768	13.8
	16.0	90.3	115	6394	7.46	639	785	10340	927	0.759	11.1

Size	Thickness	Mass	Area of Section	Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Superficial Area	Approx Length
B x B mm	T mm	M kg/m	A cm <sup>2</sup>	I cm <sup>4</sup>	i cm	W <sub>el</sub> cm <sup>3</sup>	W <sub>pl</sub> cm <sup>3</sup>	I <sub>t</sub> cm <sup>4</sup>	C <sub>t</sub> cm <sup>3</sup>	A <sub>s</sub> m <sup>2</sup> /m	/tonne m
<b>250x250</b>	6.3	47.9	61.0	6014	9.93	481	556	9238	712	0.984	20.9
	8.0	60.3	76.8	7455	9.86	596	694	11525	880	0.979	16.6
	10.0	74.5	94.9	9055	9.77	724	851	14106	1065	0.974	13.4
	12.5	91.9	117	10915	9.66	873	1037	17164	1279	0.968	10.9
	16.0	115	147	13267	9.50	1061	1280	21138	1546	0.959	8.67
<b>300x300</b>	6.3	57.8	73.6	10547	12.0	703	809	16136	1043	1.18	17.3
	8.0	72.8	92.8	13128	11.9	875	1013	20194	1294	1.18	13.7
	10.0	90.2	115	16026	11.8	1068	1246	24807	1575	1.17	11.1
	12.5	112	142	19442	11.7	1296	1525	30333	1904	1.17	8.97
	16.0	141	179	23850	11.5	1590	1895	37622	2325	1.16	7.12
<b>350x350</b>	10.0	106	135	25884	13.9	1479	1715	39886	2185	1.37	9.44
	12.5	131	167	31541	13.7	1802	2107	48934	2654	1.37	7.62
	16.0	166	211	38942	13.6	2225	2630	60990	3264	1.36	6.04
<b>400x400</b>	10.0	122	155	39128	15.9	1956	2260	60092	2895	1.57	8.22
	12.5	151	192	47839	15.8	2392	2782	73906	3530	1.57	6.63
	16.0	191	243	59344	15.6	2967	3484	92442	4362	1.56	5.24