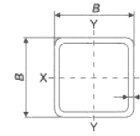


Cold Rolled Square Hollow Sections



APM S001

Nominal Size		t Wall Thickness	Calculated Weight		Sectional Area	Moment of Inertia		Section Modulus		Radius of Gyration		Plastic Modulus	
mm	in		kg/m	kg/6m		cm ²	I _x cm ⁴	I _y cm ⁴	Z _x cm ³	Z _y cm ³	i _x cm	i _y cm	S _x cm ³
12 x 12	1/2 x 1/2	0.8	0.277	1.662	0.353	0.073	0.073	0.1220	0.122	0.456	0.456	0.147	0.147
		1.0	0.339	2.034	0.431	0.087	0.087	0.144	0.144	0.448	0.448	0.177	0.177
		1.2	0.397	2.382	0.506	0.098	0.098	0.163	0.163	0.440	0.440	0.204	0.204
		1.6	0.505	3.030	0.644	0.116	0.116	0.193	0.193	0.424	0.424	0.249	0.249
16 x 16	5/8 x 5/8	0.8	0.378	2.265	0.481	0.184	0.184	0.2310	0.231	0.619	0.619	0.273	0.273
		1.0	0.464	2.784	0.591	0.221	0.221	0.276	0.276	0.611	0.611	0.331	0.331
		1.2	0.548	3.288	0.698	0.254	0.254	0.317	0.317	0.603	0.603	0.386	0.386
		1.6	0.706	4.236	0.900	0.310	0.310	0.387	0.387	0.587	0.587	0.483	0.483
19 x 19	3/4 x 3/4	0.8	0.453	2.718	0.5770	0.317	0.317	0.334	0.334	0.742	0.742	0.393	0.393
		1.0	0.559	3.354	0.711	0.383	0.383	0.403	0.403	0.733	0.733	0.479	0.479
		1.2	0.661	3.966	0.842	0.443	0.443	0.466	0.466	0.725	0.725	0.560	0.560
		1.6	0.857	5.142	1.092	0.548	0.548	0.577	0.577	0.709	0.709	0.709	0.709
20 x 20	-	1.2	0.679	4.074	0.865	0.498	0.498	0.498	0.498	0.759	0.759	0.601	0.601
		1.6	0.873	5.238	1.112	0.608	0.608	0.608	0.608	0.739	0.739	0.751	0.751
25 x 25	1 x 1	0.8	0.604	3.624	0.769	0.748	0.748	0.599	0.599	0.987	0.987	0.696	0.696
		1.0	0.747	4.482	0.951	0.910	0.910	0.728	0.728	0.978	0.978	0.854	0.854
		1.2	0.887	5.322	1.13	1.06	1.06	0.85	0.85	0.97	0.97	1.01	1.01
		1.6	1.160	6.960	1.48	1.34	1.34	1.07	1.07	0.95	0.95	1.29	1.29
30 x 30	-	1.0	0.904	5.423	1.15	1.61	1.61	1.07	1.07	1.18	1.18	1.25	1.25
		1.2	1.080	6.480	1.37	1.89	1.89	1.26	1.26	1.17	1.17	1.48	1.48
		1.6	1.410	8.460	1.80	2.40	2.40	1.60	1.60	1.16	1.16	1.91	1.91
32 x 32	1 1/4 x 1 1/4	1.0	0.967	5.800	1.23	1.97	1.97	1.23	1.23	1.26	1.26	1.43	1.43
		1.2	1.150	6.900	1.47	2.31	2.31	1.44	1.44	1.26	1.26	1.69	1.69
		1.6	1.510	9.060	1.92	2.95	2.95	1.84	1.84	1.24	1.24	2.19	2.19
35 x 35	-	1.0	1.047	6.282	1.33	2.55	2.55	1.45	1.45	1.38	1.38	1.69	1.69
		1.2	1.245	7.470	1.59	2.98	2.98	1.70	1.70	1.37	1.37	1.99	1.99
		1.6	1.626	9.756	2.07	3.79	3.79	2.17	2.17	1.35	1.35	2.57	2.57
38 x 38	1 1/2 x 1 1/2	1.0	1.155	6.930	1.47	3.35	3.35	1.76	1.76	1.51	1.51	2.04	2.04
		1.2	1.380	8.280	1.75	3.95	3.95	2.08	2.08	1.50	1.50	2.42	2.42
		1.6	1.810	10.860	2.31	5.08	5.08	2.67	2.67	1.48	1.48	3.14	3.14
40 x 40	-	1.2	1.430	8.580	1.83	4.54	4.54	2.27	2.27	1.54	1.54	2.72	2.72
		1.6	1.880	11.280	2.39	5.79	5.79	2.90	2.90	1.56	1.56	3.41	3.41
50 x 50	2 x 2	1.2	1.810	10.860	2.31	9.08	9.08	3.63	3.63	1.98	1.98	4.20	4.20
		1.6	2.410	14.460	3.08	12.0	12.0	4.79	4.79	1.97	1.97	5.57	5.57