

## RECTANGULAR HOLLOW SECTIONS

Sizes		Wall Thickness		Unit Weight					Area of Metal in <sup>2</sup>	Moment of Inertia in <sup>4</sup>		Section Modulus in <sup>3</sup>		Radius of Gyration in		
Inches	mm	Inches	mm	lbs/ft	lb/20ft	kg/ft	kg/m	kg/6m	in <sup>2</sup>	Ixx	Iyy	Zxx	Zyy	rxx	ryy	
1 x 1/2	25.4 x 12.7	0.047	1.2	0.448	8.96	0.203	0.67	4.02	0.131	0.015	0.005	0.031	0.02	0.344	0.198	
		0.063	1.6	0.58	11.6	0.263	0.863	5.178	0.167	0.018	0.006	0.037	0.024	0.335	0.191	
1.1/2 x 1	38.1 x 25.4	0.047	1.2	0.767	15.34	0.348	0.14	6.84	0.229	0.07	0.037	0.094	0.075	0.555	0.405	
		0.063	1.6	1.01	20.2	0.457	1.5	9	0.297	0.088	0.047	0.118	0.094	0.546	0.398	
2 x 1	50.8 x 25.4	0.047	1.2	0.915	18.295	0.415	1.362	8.172	0.288	0.144	0.049	0.144	0.971	0.726	0.422	
		0.0598	1.5	1.128	22.56	0.513	1.683	10.09	0.365	0.179	0.06	0.179	0.12	0.721	0.416	
		0.063	1.6	1.2	24	0.544	1.785	10.71	0.384	0.187	0.062	0.187	0.125	0.72	0.415	
		0.091	2.3	1.666	33.32	0.756	2.48	14.88	—	—	—	—	—	—	—	—
		0.095	2.4	1.74	34.8	0.79	2.592	15.55	0.526	0.26	0.085	0.26	0.17	0.702	0.401	
		0.12	3	1.1	42	0.953	3.125	18.752	0.626	0.285	0.093	0.285	0.187	0.68	0.39	
2.1/2 x 1.1/2	63.5 x 38.1	0.075	1.6	1.626	32.524	0.738	2.424	14.544	0.48	0.416	0.189	0.333	0.252	0.92	0.62	
		0.091	2.3	2.282	45.637	1.035	3.969	20.377	—	—	—	—	—	—	—	
		0.095	2.4	2.38	47.6	1.08	3.542	21.252	0.7	0.572	0.257	0.457	0.343	0.903	0.606	
		0.12	3	2.904	58.08	1.317	4.322	25.932	0.87	0.685	0.306	0.548	0.409	0.889	0.595	
3 x 1.1/2	76.2 x 38.1	0.075	1.9	2.166	43.319	0.982	3.224	19.341	—	—	—	—	—	—	—	
		0.091	2.3	2.59	51.801	1.175	3.855	23.127	—	—	—	—	—	—	—	
		0.095	2.4	2.7	54	1.225	4.018	24.11	0.795	0.901	0.304	0.601	0.406	1.064	0.619	
		0.12	3	3.306	66.109	1.5	4.92	29.521	0.985	1.086	0.364	0.724	0.485	1.05	0.607	
3 x 2	76.2 x 50.8	0.075	1.9	2.421	48.41	1.098	3.603	21.618	—	—	—	—	—	—	—	
		0.091	2.3	2.898	57.964	1.315	4.313	25.878	—	—	—	—	—	—	—	
		0.095	2.4	3.03	60.6	1.374	4.509	27.056	0.9	1.102	0.589	0.734	0.589	1.112	0.813	
		0.12	3	3.708	74.16	1.682	5.518	33.111	1.11	1.33	0.707	0.886	0.707	1.097	0.8	
		0.125	3.2	3.91	78.2	1.77	5.81	34.86	1.15	1.372	0.73	0.915	0.73	1.094	0.797	
		0.156	4	4.76	95.2	2.16	7.09	42.54	1.4	1.62	0.86	1.08	0.86	1.08	0.782	

<b>5 x 2</b>	<b>127.0 x 50.8</b>	0.125	3.2	5.647	112.94	2.561	8.404	50.424	1.651	4.96	1.174	1.983	1.174	1.735	0.844
		0.156	4	6.88	137.6	3.12	10.24	61.42	2.024	5.96	1.4	2.383	1.4	1.716	0.83
		0.177	4.5	7.739	154.775	3.51	11.518	69.105	—	—	—	—	—	—	—
		0.18	4.6	7.85	157	3.56	11.68	70.08	2.31	6.32	1.5	2.53	1.5	1.675	0.814
		0.236	6	10.006	200.125	4.539	14.891	89.348	—	—	—	—	—	—	—
		0.25	6.4	10.4	208	4.76	15.618	93.705	3.1	7.79	1.813	3.116	1.813	1.616	0.78
<b>4 x 3</b>	<b>101.6 x 76.2</b>	0.125	3.2	5.647	112.94	2.561	8.404	50.424	1.651	3.75	2.406	1.874	1.604	1.508	1.209
		0.156	4	6.88	137.6	3.12	10.24	61.42	2.024	4.52	2.9	2.26	1.93	1.5	1.196
		0.177	4.5	7.739	154.775	3.51	11.518	69.105	—	—	—	—	—	—	—
		0.18	4.6	7.85	157	3.56	11.68	70.08	2.31	4.813	3.092	2.407	2.061	1.462	1.172
		0.236	6	10.006	200.125	4.539	14.891	89.348	—	—	—	—	—	—	—
		0.25	6.4	10.4	208	4.76	15.618	93.705	3.1	6.45	4.1	3.225	2.733	1.445	1.152
<b>5 x 3</b>	<b>127.0 x 76.2</b>	0.125	3.2	6.505	130.1	2.951	9.681	58.086	1.902	6.431	2.923	2.572	1.95	1.841	1.241
		0.156	4	7.95	159	3.6	11.81	70.9	2.34	7.765	3.514	3.106	2.342	1.823	1.226
		0.177	4.5	8.945	178.892	4.057	13.312	79.874	—	—	—	—	—	—	—
		0.18	4.6	9.07	181.4	4.12	13.52	81.12	2.67	8.4	3.809	3.351	2.54	1.791	1.21
		0.236	6	11.614	232.281	5.268	17.285	103.708	—	—	—	—	—	—	—
		0.25	6.4	12	240	5.45	17.881	107.286	3.54	10.95	4.92	4.38	3.28	1.76	1.18
<b>6 x 2</b>	<b>152.4 x 50.8</b>	0.125	3.2	6.505	130.1	2.951	9.681	58.086	1.902	7.92	1.394	2.64	1.394	2.043	0.857
		0.156	4	7.95	159	3.6	11.81	70.9	2.34	9.561	1.661	3.19	1.662	2.023	0.843
		0.177	4.5	8.945	178.892	4.057	13.312	79.874	—	—	—	—	—	—	—
		0.18	4.6	9.07	181.4	4.12	13.52	81.12	2.67	10.24	1.8	3.413	1.8	1.98	0.823
		0.236	6	11.614	232.281	5.268	17.285	103.708	—	—	—	—	—	—	—
		0.25	6.4	12	240	5.45	17.881	107.286	3.54	12.815	2.2	4.272	2.2	1.918	0.795