

Rectangular Hollow Section

RECTANGULAR HOLLOW SECTION (SHS) IS 4923-2017/ EN10219-1:2006/ ASTM A-500														
Sizes	Area	Weight	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsion		Superficial Area / mtr length	Nominal Length / Ton
	A	kg/m	Ixx cm ⁴	Iyy cm ⁴	Rxx cm	Ryy cm	Zxx cm ³	Zyy cm ³	Sxx cm ³	Syy cm ³	J cm ⁴	C cm ³	As m ² /m	m
200 X 100 X 4	22.9	18.0	1200	380	7.2	4.1	120	76	148	90	985	142	0.586	55.5
200 X 100 X 5	28.4	22.3	1459	449	7.2	4.0	146	90	181	109	1206	172	0.583	44.9
200 X 100 X 6	33.6	26.4	1703	508	7.1	3.9	170	102	213	127	1417	200	0.579	37.9
200 X 100 X 8	43.8	34.4	2146	598	7.0	3.7	215	120	273	159	1808	251	0.573	29.1
200 X 100 X 10	53.4	41.9	2531	651	6.9	3.5	253	130	327	187	2158	294	0.566	23.8
200 X 100 X 12	62.5	49.1	2860	669	6.8	3.3	286	134	375	210	2467	331	0.559	20.4
240 X 120 X 4	27.7	21.8	2111	681	8.7	5.0	176	114	216	132	1726	208	0.706	45.9
240 X 120 X 5	34.4	27.0	2580	814	8.7	4.9	215	136	266	161	2121	254	0.703	37.1
240 X 120 X 6	40.8	32.1	3026	932	8.6	4.8	252	155	313	188	2501	297	0.699	31.2
240 X 120 X 8	53.4	41.9	3852	1125	8.5	4.6	321	187	404	239	3218	376	0.693	23.9
240 X 120 X 10	65.4	51.4	4592	1264	8.4	4.4	383	211	488	284	3876	447	0.686	19.5
240 X 120 X 12	76.9	60.4	5248	1350	8.3	4.2	437	225	565	323	4475	509	0.679	16.6
250 X 150 X 4	30.9	24.3	2697	1193	9.3	6.2	216	159	260	181	2665	275	0.786	41.2
250 X 150 X 5	38.4	30.1	3304	1444	9.3	6.1	264	193	320	222	3285	337	0.783	33.2
250 X 150 X 6	45.6	35.8	3886	1677	9.2	6.1	311	224	378	262	3886	396	0.779	27.9
250 X 150 X 8	59.8	46.9	4972	2088	9.1	5.9	398	278	489	335	5032	505	0.773	21.3
250 X 150 X 10	73.4	57.6	5960	2430	9.0	5.8	477	324	593	403	6104	604	0.766	17.3
250 X 150 X 12	86.5	67.9	6853	2706	8.9	5.6	548	361	689	464	7101	694	0.759	14.7
250 X 200 X 4	34.9	27.4	3302	2329	9.7	8.2	264	233	309	265	4254	372	0.886	36.5
250 X 200 X 5	43.4	34.0	4055	2850	9.7	8.1	324	285	381	326	5257	457	0.883	29.4
250 X 200 X 6	51.6	40.5	4779	3346	9.6	8.0	382	335	451	386	6237	538	0.879	24.7
250 X 200 X 8	67.8	53.2	6144	4268	9.5	7.9	492	427	586	499	8124	692	0.873	18.8
250 X 200 X 10	83.4	65.5	7401	5099	9.4	7.8	592	510	713	605	9914	834	0.866	15.3
250 X 200 X 12	98.5	77.3	8553	5841	9.3	7.7	684	584	832	704	11606	965	0.859	15.3
250 X 200 X 15	120.2	94.4	10093	6796	9.2	7.5	807	680	997	840	13960	1140	0.848	10.6
260 X 180 X 4	34.1	26.8	3358	1881	9.9	7.4	258	209	306	237	3801	347	0.866	37.3
260 X 180 X 5	42.4	33.2	4121	2293	9.9	7.4	317	255	377	291	4695	426	0.863	30.1
260 X 180 X 6	50.4	39.6	4856	2683	9.8	7.3	374	298	447	344	5566	501	0.859	25.3
260 X 180 X 8	66.2	52.0	6239	3395	9.7	7.2	480	377	580	444	7230	644	0.853	19.2
260 X 180 X 10	81.4	63.9	7510	4022	9.6	7.0	578	447	705	537	8829	774	0.846	15.6
260 X 180 X 12	96.1	75.5	8672	4565	9.5	6.9	667	507	822	623	10309	894	0.839	13.3
300 X 200 X 4	38.9	30.6	5073	2685	11.4	8.3	338	269	401	303	5527	449	0.986	32.7
300 X 200 X 5	48.4	38.0	6241	3281	11.4	8.2	416	328	496	373	6836	552	0.983	26.3
300 X 200 X 6	57.6	45.2	7370	3847	11.3	8.2	491	385	588	441	8115	651	0.979	22.1
300 X 200 X 8	75.8	59.5	9514	4893	11.2	8.0	634	489	765	572	10586	840	0.973	16.8
300 X 200 X 10	93.4	73.3	11507	5827	11.1	7.9	767	583	934	694	12939	1014	0.966	13.6
300 X 200 X 12	110.5	86.8	13355	6652	11.0	7.8	890	665	1093	808	15173	1177	0.959	11.5
300 X 200 X 15	135.2	106.1	15862	7692	10.8	7.5	1057	769	1316	964	18302	1397	0.948	9.4
350 X 150 X 4	38.9	30.6	6133	1558	12.5	6.3	350	208	434	238	4190	389	0.986	32.7
350 X 150 X 5	48.4	38.0	7544	1874	12.5	6.2	431	250	537	292	5169	477	0.983	26.3

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	A	kg/m	Ixx	Iyy	Rxx	Ryy	Zxx	Zyy	Sxx	Syy	J	C			
			cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ⁴			cm ⁴
350 X 150 X 6	57.6	45.2	8907	2161	12.4	6.1	509	288	636	343	6121	562	0.979		
350 X 150 X 8	75.8	59.5	11491	2651	12.3	5.9	657	353	828	441	7942	720	0.973	22.1	
350 X 150 X 10	93.4	73.3	13890	3030	12.2	5.7	794	404	1010	530	9653	866	0.966	16.8	
350 X 150 X 12	110.5	86.8	16109	3303	12.1	5.5	921	440	1182	611	11256	999	0.956	13.6	
350 X 200 X 4	42.9	33.7	7331	3036	13.1	8.4	419	304	504	341	6849	526	0.959	11.5	
350 X 200 X 5	53.4	41.9	9032	3704	13.0	8.3	516	370	623	420	8475	647	1.066	29.7	
350 X 200 X 6	63.6	50.0	10682	4337	13.0	8.3	610	434	739	497	10065	764	1.083	23.9	
350 X 200 X 8	83.8	65.8	13831	5499	12.8	8.1	790	550	985	644	13142	987	1.079	20.0	
350 X 200 X 10	103.4	81.2	16781	6524	12.7	7.9	959	652	1180	782	16078	1195	1.073	15.2	
350 X 200 X 12	122.5	96.2	19538	7417	12.6	7.8	1116	742	1385	911	18874	1389	1.066	12.3	
350 X 200 X 15	150.2	117.9	23320	8515	12.5	7.5	1333	852	1673	1088	22805	1654	1.059	10.4	
350 X 250 X 4	46.9	36.9	8528	5056	13.5	10.4	487	404	573	454	9871	663	1.048	8.5	
350 X 250 X 5	58.4	45.8	10520	6210	13.4	10.3	601	497	709	562	12234	817	1.186	27.1	
350 X 250 X 6	69.6	54.7	12457	7320	13.4	10.3	712	586	843	666	14554	967	1.183	21.8	
350 X 250 X 8	91.8	72.1	16170	9414	13.3	10.1	924	753	1102	868	19066	1254	1.179	18.3	
350 X 250 X 10	113.4	89.0	19672	11342	13.2	10.0	1124	907	1350	1060	23409	1525	1.173	13.9	
350 X 250 X 12	134.5	105.6	22967	13108	13.1	9.9	1312	1049	1588	1242	27580	1779	1.166	11.2	
350 X 250 X 15	165.2	129.7	27532	15462	12.9	9.7	1573	1237	1924	1497	33515	2132	1.159	9.5	
350 X 300 X 5	63.4	49.7	12008	9453	13.8	12.2	686	630	795	715	16339	987	1.148	7.7	
350 X 300 X 6	75.6	59.4	14233	11186	13.7	12.2	813	746	946	850	19457	1170	1.283	20.1	
350 X 300 X 8	99.8	78.3	18510	14498	13.6	12.1	1058	967	1238	1112	25542	1521	1.279	16.8	
350 X 300 X 10	123.4	96.9	22563	17610	13.5	11.9	1289	1174	1520	1362	31425	1854	1.273	12.8	
350 X 300 X 12	146.5	115.0	26396	20527	13.4	11.8	1508	1368	1790	1603	37106	2170	1.266	10.3	
350 X 300 X 15	180.2	141.5	31743	24545	13.3	11.7	1814	1636	2176	1943	45247	2612	1.259	8.7	
350 X 300 X 18	212.7	167.0	36622	28149	13.1	11.5	2093	1877	2537	2261	52928	3017	1.248	7.1	
400 X 250 X 5	63.4	49.7	14440	6900	15.1	10.4	722	552	861	621	14773	937	1.238	6.0	
400 X 250 X 6	75.6	59.4	17118	8127	15.0	10.4	856	650	1024	737	17580	1110	1.283	20.1	
400 X 250 X 8	99.8	78.3	22269	10433	14.9	10.2	1113	835	1341	961	23047	1441	1.279	16.8	
400 X 250 X 10	123.4	96.9	27151	12544	14.8	10.1	1358	1004	1646	1173	28317	1755	1.273	12.8	
400 X 250 X 12	146.5	115.0	31771	14465	14.7	9.9	1589	1157	1939	1376	33389	2051	1.266	10.3	
400 X 250 X 15	180.2	141.5	38218	17000	14.6	9.7	1911	1360	2356	1659	40625	2464	1.259	8.7	
400 X 250 X 18	212.7	167.0	44103	19133	14.4	9.5	2205	1531	2747	1919	47414	2840	1.248	7.1	
400 X 300 X 5	68.4	53.7	16391	10481	15.5	12.4	820	699	960	787	19853	1132	1.238	6.0	
400 X 300 X 6	81.6	64.1	19447	12396	15.4	12.3	972	826	1142	936	23651	1342	1.383	18.6	
400 X 300 X 8	107.8	84.6	25343	16051	15.3	12.2	1267	1070	1498	1224	31072	1748	1.379	15.6	
400 X 300 X 10	133.4	104.7	30955	19475	15.2	12.1	1548	1298	1841	1501	38262	2135	1.373	11.8	
400 X 300 X 12	158.5	124.4	36288	22673	15.1	12.0	1814	1512	2172	1768	45219	2502	1.366	9.5	
400 X 300 X 15	195.2	153.2	43779	27059	15.0	11.8	2189	1804	2645	2142	55216	3018	1.359	8.0	
400 X 300 X 18	230.7	181.1	50674	30964	14.8	11.6	2534	2064	3091	2494	64685	3494	1.348	6.5	
400 X 300 X 20	253.7	199.2	54848	33309	14.7	11.5	2747	2221	3374	2714	70703	3790	1.338	5.5	
400 X 300 X 22	273.7	215.2	59448	35649	14.6	11.4	2961	2424	3684	2944	77003	4100	1.331	5.0	