

Atlas HSS Section Properties (Rectangle) - CSA G40

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	t _{nom}						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	
HSS 34 x 10 x 1	34	10	1.000	1.000	277.07	81.4	7.0	31.0	10200	600	11.19	799	1410	282	4.16	326	29.500	5.500	4280	590	7.05
HSS 34 x 10 x 7/8	34	10	0.875	0.875	244.88	72.0	8.4	35.9	9130	537	11.26	712	1280	256	4.22	292	30.063	6.063	3850	526	7.08
HSS 34 x 10 x 3/4	34	10	0.750	0.750	212.00	62.3	10.3	42.3	8030	472	11.35	621	1140	228	4.28	256	30.625	6.625	3390	460	7.12
HSS 34 x 10 x 5/8	34	10	0.625	0.625	178.41	52.4	13.0	51.4	6850	403	11.43	527	981	196	4.33	218	31.188	7.188	2900	390	7.15
HSS 30 x 10 x 1	30	10	1.000	1.000	249.85	73.4	7.0	27.0	7300	487	9.97	644	1250	250	4.13	290	25.500	5.500	3660	518	6.38
HSS 30 x 10 x 7/8	30	10	0.875	0.875	221.06	65.0	8.4	31.3	6570	438	10.05	575	1130	226	4.17	260	26.063	6.063	3290	463	6.42
HSS 30 x 10 x 3/4	30	10	0.750	0.750	191.58	56.3	10.3	37.0	5780	385	10.13	502	1010	202	4.24	228	26.625	6.625	2900	404	6.45
HSS 30 x 10 x 0.690	30	10	0.690	0.690	177.18	52.1	11.5	40.5	5390	359	10.17	467	940	188	4.25	212	26.895	6.895	2710	375	6.47
HSS 30 x 10 x 5/8	30	10	0.625	0.625	161.40	47.4	13.0	45.0	4950	330	10.22	427	871	174	4.29	195	27.188	7.188	2480	343	6.49
HSS 30 x 10 x 1/2	30	10	0.500	0.500	130.52	38.4	17.0	57.0	4070	271	10.30	348	723	145	4.34	160	27.750	7.750	2040	280	6.52
HSS 24 x 16 x 1	24	16	1.000	1.000	249.85	73.4	13.0	21.0	5650	471	8.77	580	3010	376	6.40	438	19.500	11.500	6410	686	6.38
HSS 24 x 16 x 7/8	24	16	0.875	0.875	221.06	65.0	15.3	24.4	5080	423	8.84	517	2710	339	6.46	391	20.063	12.063	5720	610	6.42
HSS 24 x 16 x 3/4	24	16	0.750	0.750	191.58	56.3	18.3	29.0	4460	372	8.90	452	2390	299	6.52	342	20.625	12.625	4990	530	6.45
HSS 24 x 16 x 5/8	24	16	0.625	0.625	161.40	47.4	22.6	35.4	3820	318	8.98	384	2050	256	6.58	291	21.188	13.188	4240	448	6.49
HSS 24 x 16 x 1/2	24	16	0.500	0.500	130.52	38.4	29.0	45.0	3130	261	9.03	313	1683	210	6.62	237	21.750	13.750	3450	364	6.52
HSS 24 x 16 x 3/8	24	16	0.375	0.375	98.94	29.1	39.7	61.0	2410	201	9.10	239	1298	162	6.68	181	22.313	14.313	2630	277	6.56
HSS 24 x 12 x 1	24	12	1.000	1.000	222.63	65.4	9.0	21.0	4590	383	8.38	488	1540	257	4.85	299	19.500	7.500	3850	502	5.71
HSS 24 x 12 x 7/8	24	12	0.875	0.875	197.24	58.0	10.7	24.4	4140	345	8.45	436	1390	232	4.90	268	20.063	8.063	3460	448	5.75
HSS 24 x 12 x 3/4	24	12	0.750	0.750	171.16	50.3	13.0	29.0	3650	304	8.52	382	1240	207	4.97	235	20.625	8.625	3030	391	5.79
HSS 24 x 12 x 5/8	24	12	0.625	0.625	144.39	42.4	16.2	35.4	3130	261	8.59	325	1070	178	5.02	201	21.188	9.188	2590	331	5.82
HSS 24 x 12 x 1/2	24	12	0.500	0.500	116.91	34.4	21.0	45.0	2580	215	8.66	266	883	147	5.07	164	21.750	9.750	2120	270	5.86
HSS 24 x 12 x 3/8	24	12	0.375	0.375	88.73	26.1	29.0	61.0	1990	166	8.73	203	685	114	5.12	126	22.313	10.313	1620	206	5.89
HSS 22 x 18 x 1	22	18	1.000	1.000	249.85	73.4	15.0	19.0	5010	455	8.26	550	3670	408	7.07	479	17.500	13.500	6870	710	6.38
HSS 22 x 18 x 7/8	22	18	0.875	0.875	221.06	65.0	17.6	22.1	4500	409	8.32	491	3300	367	7.13	428	18.063	14.063	6120	631	6.42
HSS 22 x 18 x 3/4	22	18	0.750	0.750	191.58	56.3	21.0	26.3	3960	360	8.39	429	2900	322	7.18	374	18.625	14.625	5340	548	6.45
HSS 22 x 18 x 5/8	22	18	0.625	0.625	161.40	47.4	25.8	32.2	3380	307	8.44	364	2487	276	7.24	318	19.188	15.188	4530	463	6.49
HSS 22 x 18 x 1/2	22	18	0.500	0.500	130.52	38.4	33.0	41.0	2780	253	8.51	297	2043	227	7.29	259	19.750	15.750	3680	376	6.52
HSS 22 x 18 x 3/8	22	18	0.375	0.375	98.94	29.1	45.0	55.7	2130	194	8.56	227	1574	174.9	7.35	198	20.313	16.313	2810	286	6.56
HSS 20 x 16 x 1	20	16	1.000	1.000	222.63	65.4	13.0	17.0	3620	362	7.44	441	2550	319	6.24	378	15.500	11.500	4900	566	5.71
HSS 20 x 16 x 7/8	20	16	0.875	0.875	197.24	58.0	15.3	19.9	3260	326	7.50	394	2310	289	6.31	338	16.063	12.063	4380	504	5.75
HSS 20 x 16 x 3/4	20	16	0.750	0.750	171.16	50.3	18.3	23.7	2880	288	7.57	345	2040	255	6.37	296	16.625	12.625	3830	439	5.79
HSS 20 x 16 x 5/8	20	16	0.625	0.625	144.39	42.4	22.6	29.0	2470	247	7.63	294	1750	219	6.42	252	17.188	13.188	3250	371	5.82
HSS 20 x 16 x 1/2	20	16	0.500	0.500	116.91	34.4	29.0	37.0	2030	203	7.68	240	1443	180	6.48	206	17.750	13.750	2650	302	5.86
HSS 20 x 16 x 3/8	20	16	0.375	0.375	88.73	26.1	39.7	50.3	1570	157	7.76	184	1115	139.4	6.54	158	18.313	14.313	2020	230	5.89
HSS 20 x 12 x 1	20	12	1.000	1.000	195.40	57.4	9.0	17.0	2890	289	7.10	365	1290	215	4.74	255	15.500	7.500	2990	414	5.05
HSS 20 x 12 x 7/8	20	12	0.875	0.875	173.43	51.0	10.7	19.9	2620	262	7.17	327	1180	197	4.81	229	16.063	8.063	2680	370	5.08
HSS 20 x 12 x 3/4	20	12	0.750	0.750	150.75	44.3	13.0	23.7	2320	232	7.24	287	1050	175	4.87	202	16.625	8.625	2360	323	5.12
HSS 20 x 12 x 5/8	20	12	0.625	0.625	127.37	37.4	16.2	29.0	2000	200	7.31	245	904	151	4.92	172	17.188	9.188	2010	275	5.15
HSS 20 x 12 x 1/2	20	12	0.500	0.500	103.30	30.4	21.0	37.0	1650	165	7.37	201	750	125	4.97	141	17.750	9.750	1650	224	5.19
HSS 20 x 12 x 3/8	20	12	0.375	0.375	78.52	23.1	29.0	50.3	1280	128	7.44	154	583	97.2	5.02	109	18.313	10.313	1270	171	5.23
HSS 20 x 12 x 5/16	20	12	0.313	0.313	65.87	19.4	35.3	60.9	1080	108	7.46	130	495	82.5	5.05	92	18.594	10.594	1070	144	5.24
HSS 20 x 8 x 1	20	8	1.000	1.000	168.18	49.4	5.0	17.0	2170	217	6.63	289	493	123	3.16	148	15.500	3.500	1390	262	4.38
HSS 20 x 8 x 7/8	20	8	0.875	0.875	149.61	44.0	6.1	19.9	1980	198	6.71	260	454	114	3.21	134	16.063	4.063	1265	236	4.42
HSS 20 x 8 x 3/4	20	8	0.750	0.750	130.33	38.3	7.7	23.7	1760	176	6.78	230	409	102	3.27	119	16.625	4.625	1126	208	4.45
HSS 20 x 8 x 5/8	20	8	0.625	0.625	110.36	32.4	9.8	29.0	1530	153	6.87	197	358	89.5	3.32	103	17.188	5.188	973	178	4.49
HSS 20 x 8 x 1/2	20	8	0.500	0.500	89.68	26.4	13.0	37.0	1270	127	6.94	162	300	75.0	3.37	84.7	17.750	5.750	806	146	4.52
HSS 20 x 8 x 3/8	20	8	0.375	0.375	68.31	20.1	18.3	50.3	988	98.8	7.01	125	236	59.0	3.43	65.6	18.313	6.313	625	112	4.56
HSS 20 x 8 x 5/16	20	8	0.313	0.313	57.36	16.9	22.6	60.9	840	84.0	7.05	105.5	202	50.5	3.46	55.6	18.594	6.594	530	94.6	4.58

Atlas HSS Section Properties (Rectangle) - CSA G40

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	t _{nom}						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	
HSS 20 x 4 x 1/2	20	4	0.500	0.500	76.07	22.4	5.0	37.0	889	88.9	6.30	123	61.6	30.8	1.66	36.0	17.750	1.750	205	67.8	3.86
HSS 20 x 4 x 3/8	20	4	0.375	0.375	58.10	17.1	7.7	50.3	699	69.9	6.39	95.3	50.3	25.2	1.72	28.5	18.313	2.313	165	53.2	3.89
HSS 20 x 4 x 5/16	20	4	0.313	0.313	48.86	14.4	9.8	60.9	597	59.7	6.44	80.9	43.7	21.9	1.74	24.4	18.594	2.594	143	45.3	3.91
HSS 20 x 4 x 1/4	20	4	0.250	0.250	39.43	11.6	13.0	77.0	488	48.8	6.49	65.7	36.4	18.2	1.77	20.0	18.875	2.875	118	37.0	3.93
HSS 18 x 6 x 3/4	18	6	0.750	0.750	109.91	32.3	5.0	21.0	1120	124	5.89	167	187	62.3	2.41	74.3	14.625	2.625	558	134	3.79
HSS 18 x 6 x 5/8	18	6	0.625	0.625	93.34	27.4	6.6	25.8	977	109	5.97	144	166	55.3	2.46	64.6	15.188	3.188	489	116	3.82
HSS 18 x 6 x 1/2	18	6	0.500	0.500	76.07	22.4	9.0	33.0	818	90.9	6.04	119	142	47.3	2.52	53.9	15.750	3.750	410	95.8	3.86
HSS 18 x 6 x 3/8	18	6	0.375	0.375	58.10	17.1	13.0	45.0	641	71.2	6.12	92.2	113	37.7	2.57	42.1	16.313	4.313	322	74.2	3.89
HSS 18 x 6 x 5/16	18	6	0.313	0.313	48.86	14.4	16.2	54.5	547	60.8	6.16	78.2	97.1	32.4	2.60	35.8	16.594	4.594	275	62.8	3.91
HSS 18 x 6 x 1/4	18	6	0.250	0.250	39.43	11.6	21.0	69.0	447	49.7	6.21	63.5	80.0	26.7	2.63	29.2	16.875	4.875	224	51.0	3.93
HSS 16 x 12 x 1	16	12	1.000	1.000	168.18	49.4	9.0	13.0	1650	206	5.78	258	1050	175	4.61	211	11.500	7.500	2150	326	4.38
HSS 16 x 12 x 7/8	16	12	0.875	0.875	149.61	44.0	10.7	15.3	1500	188	5.84	232	959	160	4.67	190	12.063	8.063	1940	292	4.42
HSS 16 x 12 x 3/4	16	12	0.750	0.750	130.33	38.3	13.0	18.3	1340	168	5.91	205	856	143	4.73	168	12.625	8.625	1710	256	4.45
HSS 16 x 12 x 5/8	16	12	0.625	0.625	110.36	32.4	16.2	22.6	1160	145	5.98	175	742	124	4.79	144	13.188	9.188	1460	218	4.49
HSS 16 x 12 x 1/2	16	12	0.500	0.500	89.68	26.4	21.0	29.0	962	120	6.04	144	618	103	4.84	118	13.750	9.750	1200	178	4.52
HSS 16 x 12 x 3/8	16	12	0.375	0.375	68.31	20.1	29.0	39.7	748	93.5	6.10	111	482	80.3	4.90	91.3	14.313	10.313	922	136	4.56
HSS 16 x 12 x 5/16	16	12	0.313	0.313	57.36	16.9	35.3	48.1	636	79.5	6.13	93.9	410	68.3	4.93	77.3	14.594	10.594	779	115	4.58
HSS 16 x 8 x 7/8	16	8	0.875	0.875	125.79	37.0	6.1	15.3	1100	138	5.45	179	364	91.0	3.14	109	12.063	4.063	936	186	3.75
HSS 16 x 8 x 3/4	16	8	0.750	0.750	109.91	32.3	7.7	18.3	990	124	5.54	159	330	82.5	3.20	97.3	12.625	4.625	835	164	3.79
HSS 16 x 8 x 5/8	16	8	0.625	0.625	93.34	27.4	9.8	22.6	863	108	5.61	137	290	72.5	3.25	84.1	13.188	5.188	723	141	3.82
HSS 16 x 8 x 1/2	16	8	0.500	0.500	76.07	22.4	13.0	29.0	722	90.3	5.68	113	244	61.0	3.30	69.7	13.750	5.750	599	116	3.86
HSS 16 x 8 x 3/8	16	8	0.375	0.375	58.10	17.1	18.3	39.7	565	70.6	5.75	87.6	193	48.3	3.36	54.2	14.313	6.313	465	89.2	3.89
HSS 16 x 8 x 5/16	16	8	0.313	0.313	48.86	14.4	22.6	48.1	482	60.3	5.79	74.3	165	41.3	3.39	46.0	14.594	6.594	395	75.4	3.91
HSS 16 x 8 x 1/4	16	8	0.250	0.250	39.43	11.6	29.0	61.0	393	49.1	5.82	60.3	135	33.8	3.41	37.4	14.875	6.875	321	61.0	3.93
HSS 16 x 4 x 5/8	16	4	0.625	0.625	76.33	22.4	3.4	22.6	568	71.0	5.04	98.5	56.4	28.2	1.59	34.2	13.188	1.188	182	63.9	3.15
HSS 16 x 4 x 1/2	16	4	0.500	0.500	62.46	18.4	5.0	29.0	481	60.1	5.11	82.2	49.3	24.7	1.64	29.0	13.750	1.750	157	53.8	3.19
HSS 16 x 4 x 3/8	16	4	0.375	0.375	47.90	14.1	7.7	39.7	382	47.8	5.21	64.2	40.4	20.2	1.69	23.0	14.313	2.313	127	42.3	3.23
HSS 16 x 4 x 5/16	16	4	0.313	0.313	40.35	11.9	9.8	48.1	328	41.0	5.25	54.6	35.2	17.6	1.72	19.8	14.594	2.594	110	36.1	3.24
HSS 16 x 4 x 1/4	16	4	0.250	0.250	32.63	9.59	13.0	61.0	269	33.6	5.30	44.5	29.3	14.7	1.75	16.2	14.875	2.875	90.6	29.5	3.26
HSS 14 x 10 x 7/8	14	10	0.875	0.875	125.79	37.0	8.4	13.0	931	133	5.02	167	548	110	3.85	132	10.063	6.063	1159	207	3.75
HSS 14 x 10 x 3/4	14	10	0.750	0.750	109.91	32.3	10.3	15.7	835	119	5.08	148	493	98.6	3.91	117	10.625	6.625	1028	182	3.79
HSS 14 x 10 x 5/8	14	10	0.625	0.625	93.34	27.4	13.0	19.4	728	104.0	5.15	127	431	86.2	3.97	101	11.188	7.188	885	156	3.82
HSS 14 x 10 x 1/2	14	10	0.500	0.500	76.07	22.4	17.0	25.0	608	86.9	5.21	105.3	361	72.2	4.01	83.6	11.750	7.750	730	128	3.86
HSS 14 x 10 x 3/8	14	10	0.375	0.375	58.10	17.1	23.7	34.3	476	68.0	5.28	81.5	284	56.8	4.08	64.8	12.313	8.313	564	98.2	3.89
HSS 14 x 10 x 5/16	14	10	0.313	0.313	48.86	14.4	28.9	41.7	406	58.0	5.31	69.1	242	48.4	4.10	55.0	12.594	8.594	478	82.9	3.91
HSS 14 x 10 x 1/4	14	10	0.250	0.250	39.43	11.6	37.0	53.0	331	47.3	5.34	56.0	198	39.6	4.13	44.6	12.875	8.875	387	67.0	3.93
HSS 14 x 6 x 5/8	14	6	0.625	0.625	76.33	22.4	6.6	19.4	504	72.0	4.74	94.0	130	43.3	2.41	51.2	11.188	3.188	352	88.9	3.15
HSS 14 x 6 x 1/2	14	6	0.500	0.500	62.46	18.4	9.0	25.0	426	60.9	4.81	78.3	111	37.0	2.46	42.9	11.750	3.750	296	73.8	3.19
HSS 14 x 6 x 3/8	14	6	0.375	0.375	47.90	14.1	13.0	34.3	337	48.1	4.89	61.1	89.1	29.7	2.51	33.6	12.313	4.313	233	57.3	3.23
HSS 14 x 6 x 5/16	14	6	0.313	0.313	40.35	11.9	16.2	41.7	289	41.3	4.93	51.9	76.9	25.6	2.54	28.7	12.594	4.594	199	48.6	3.24
HSS 14 x 6 x 1/4	14	6	0.250	0.250	32.63	9.59	21.0	53.0	237	33.9	4.97	42.3	63.4	21.1	2.57	23.4	12.875	4.875	162	39.5	3.26
HSS 14 x 6 x 3/16	14	6	0.188	0.188	24.73	7.29	28.9	71.5	182	26.0	5.00	32.4	49.2	16.4	2.60	18.0	13.156	5.156	125	30.2	3.28
HSS 14 x 4 x 5/8	14	4	0.625	0.625	67.82	19.9	3.4	19.4	392	56.0	4.44	77.3	49.2	24.6	1.57	30.0	11.188	1.188	154	55.5	2.82
HSS 14 x 4 x 1/2	14	4	0.500	0.500	55.66	16.4	5.0	25.0	335	47.9	4.52	64.8	43.1	21.6	1.62	25.5	11.750	1.750	134	46.8	2.86
HSS 14 x 4 x 3/8	14	4	0.375	0.375	42.79	12.6	7.7	34.3	267	38.1	4.60	50.8	35.4	17.7	1.68	20.3	12.313	2.313	108	36.8	2.89
HSS 14 x 4 x 5/16	14	4	0.313	0.313	36.10	10.62	9.8	41.7	230	32.9	4.65	43.4	30.9	15.5	1.71	17.4	12.594	2.594	93.2	31.5	2.91
HSS 14 x 4 x 1/4	14	4	0.250	0.250	29.23	8.59	13.0	53.0	189	27.0	4.69	35.4	25.8	12.9	1.73	14.3	12.875	2.875	77.0	25.7	2.93
HSS 14 x 4 x 3/16	14	4	0.188	0.188	22.18	6.54	18.3	71.5	147	21.0	4.74	27.2	20.3	10.2	1.76	11.1	13.156	3.156	59.8	19.8	2.95

Atlas HSS Section Properties (Rectangle) - CSA G40

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	t _{nom}						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	
HSS 12 x 10 x 5/8	12	10	0.625	0.625	84.84	24.9	13.0	16.2	499	83.2	4.48	101.3	376	75.2	3.89	89.3	9.188	7.188	703	132	3.49
HSS 12 x 10 x 1/2	12	10	0.500	0.500	69.27	20.4	17.0	21.0	419	69.8	4.53	83.9	316	63.2	3.94	74.1	9.750	7.750	581	109	3.52
HSS 12 x 10 x 3/8	12	10	0.375	0.375	53.00	15.6	23.7	29.0	330	55.0	4.60	65.2	249	49.8	4.00	57.6	10.313	8.313	450	83.7	3.56
HSS 12 x 10 x 5/16	12	10	0.313	0.313	44.60	13.1	28.9	35.3	282	47.0	4.64	55.3	213	42.6	4.03	48.9	10.594	8.594	381	70.8	3.58
HSS 12 x 10 x 1/4	12	10	0.250	0.250	36.03	10.59	37.0	45.0	230	38.3	4.66	44.9	174	34.8	4.05	39.7	10.875	8.875	309	57.2	3.60
HSS 12 x 8 x 5/8	12	8	0.625	0.625	76.33	22.4	9.8	16.2	419	69.8	4.32	87.1	221	55.3	3.14	65.6	9.188	5.188	481	103.9	3.15
HSS 12 x 8 x 1/2	12	8	0.500	0.500	62.46	18.4	13.0	21.0	353	58.8	4.38	72.4	188	47.0	3.20	54.7	9.750	5.750	401	85.8	3.19
HSS 12 x 8 x 3/8	12	8	0.375	0.375	47.90	14.1	18.3	29.0	279	46.5	4.45	56.5	149	37.3	3.25	42.7	10.313	6.313	312	66.3	3.23
HSS 12 x 8 x 5/16	12	8	0.313	0.313	40.35	11.9	22.6	35.3	239	39.8	4.48	48.0	128	32.0	3.28	36.4	10.594	6.594	265	56.1	3.24
HSS 12 x 8 x 1/4	12	8	0.250	0.250	32.63	9.59	29.0	45.0	196	32.7	4.52	39.1	105	26.3	3.31	29.6	10.875	6.875	216	45.5	3.26
HSS 12 x 8 x 3/16	12	8	0.188	0.188	24.73	7.29	39.6	60.8	151	25.2	4.55	29.9	81.3	20.3	3.34	22.7	11.156	7.156	165	34.7	3.28
HSS 12 x 6 x 5/8	12	6	0.625	0.625	67.82	19.9	6.6	16.2	338	56.3	4.12	72.9	112	37.3	2.37	44.5	9.188	3.188	286	75.5	2.82
HSS 12 x 6 x 1/2	12	6	0.500	0.500	55.66	16.4	9.0	21.0	287	47.8	4.18	60.9	96.0	32.0	2.42	37.4	9.750	3.750	241	62.8	2.86
HSS 12 x 6 x 3/8	12	6	0.375	0.375	42.79	12.6	13.0	29.0	228	38.0	4.25	47.7	77.3	25.8	2.48	29.4	10.313	4.313	190	48.8	2.89
HSS 12 x 6 x 5/16	12	6	0.313	0.313	36.10	10.62	16.2	35.3	196	32.7	4.30	40.7	66.7	22.2	2.51	25.1	10.594	4.594	162	41.5	2.91
HSS 12 x 6 x 1/4	12	6	0.250	0.250	29.23	8.59	21.0	45.0	161	26.8	4.33	33.2	55.2	18.4	2.53	20.6	10.875	4.875	132	33.7	2.93
HSS 12 x 6 x 3/16	12	6	0.188	0.188	22.18	6.54	28.9	60.8	125	20.8	4.37	25.5	42.9	14.3	2.56	15.8	11.156	5.156	101.7	25.8	2.95
HSS 12 x 4 x 5/8	12	4	0.625	0.625	59.32	17.4	3.4	16.2	257	42.8	3.84	58.6	42.0	21.0	1.55	25.8	9.188	1.188	127	47.0	2.49
HSS 12 x 4 x 1/2	12	4	0.500	0.500	48.85	14.4	5.0	21.0	221	36.8	3.92	49.4	37.0	18.5	1.60	22.0	9.750	1.750	110	39.8	2.52
HSS 12 x 4 x 3/8	12	4	0.375	0.375	37.69	11.1	7.7	29.0	178	29.7	4.00	39.0	30.5	15.3	1.66	17.6	10.313	2.313	89.0	31.4	2.56
HSS 12 x 4 x 5/16	12	4	0.313	0.313	31.84	9.37	9.8	35.3	153	25.5	4.04	33.4	26.7	13.4	1.69	15.1	10.594	2.594	77.0	26.9	2.58
HSS 12 x 4 x 1/4	12	4	0.250	0.250	25.82	7.59	13.0	45.0	127	21.2	4.09	27.3	22.3	11.2	1.71	12.5	10.875	2.875	63.6	22.0	2.60
HSS 12 x 4 x 3/16	12	4	0.188	0.188	19.63	5.78	18.3	60.8	98.4	16.4	4.13	21.0	17.5	8.75	1.74	9.66	11.156	3.156	49.4	16.9	2.61
HSS 12 x 3 x 3/8	12	3	0.375	0.375	35.13	10.33	5.0	29.0	152	25.3	3.84	34.7	15.6	10.4	1.23	12.2	10.313	1.313	49.8	22.7	2.39
HSS 12 x 3 x 5/16	12	3	0.313	0.313	29.72	8.75	6.6	35.3	132	22.0	3.88	29.7	13.8	9.20	1.26	10.6	10.594	1.594	43.7	19.5	2.41
HSS 12 x 3 x 1/4	12	3	0.250	0.250	24.12	7.09	9.0	45.0	109	18.2	3.92	24.4	11.7	7.80	1.28	8.80	10.875	1.875	36.5	16.1	2.43
HSS 12 x 3 x 3/16	12	3	0.188	0.188	18.35	5.41	13.0	60.8	85.3	14.2	3.97	18.8	9.30	6.20	1.31	6.86	11.156	2.156	28.7	12.5	2.45
HSS 10 x 8 x 5/8	10	8	0.625	0.625	67.82	19.9	9.8	13.0	266	53.2	3.66	65.9	187	46.8	3.07	56.4	7.188	5.188	367	85.5	2.82
HSS 10 x 8 x 1/2	10	8	0.500	0.500	55.66	16.4	13.0	17.0	226	45.2	3.71	55.1	160	40.0	3.12	47.2	7.750	5.750	306	70.8	2.86
HSS 10 x 8 x 3/8	10	8	0.375	0.375	42.79	12.6	18.3	23.7	180	36.0	3.78	43.1	127	31.8	3.17	37.0	8.313	6.313	239	54.8	2.89
HSS 10 x 8 x 5/16	10	8	0.313	0.313	36.10	10.62	22.6	28.9	154	30.8	3.81	36.8	110	27.5	3.22	31.6	8.594	6.594	203	46.5	2.91
HSS 10 x 8 x 1/4	10	8	0.250	0.250	29.23	8.59	29.0	37.0	127	25.4	3.85	30.0	90.2	22.6	3.24	25.8	8.875	6.875	166	37.7	2.93
HSS 10 x 8 x 3/16	10	8	0.188	0.188	22.18	6.54	39.6	50.2	98.1	19.6	3.87	23.0	69.8	17.5	3.27	19.8	9.156	7.156	127	28.8	2.95
HSS 10 x 6 x 5/8	10	6	0.625	0.625	59.32	17.4	6.6	13.0	211	42.2	3.48	54.2	93.6	31.2	2.32	37.7	7.188	3.188	221	62.0	2.49
HSS 10 x 6 x 1/2	10	6	0.500	0.500	48.85	14.4	9.0	17.0	181	36.2	3.55	45.6	80.9	27.0	2.37	31.9	7.750	3.750	187	51.8	2.52
HSS 10 x 6 x 3/8	10	6	0.375	0.375	37.69	11.1	13.0	23.7	145	29.0	3.61	35.9	65.4	21.8	2.43	25.2	8.313	4.313	147	40.4	2.56
HSS 10 x 6 x 5/16	10	6	0.313	0.313	31.84	9.37	16.2	28.9	125	25.0	3.65	30.7	56.6	18.9	2.46	21.6	8.594	4.594	126	34.4	2.58
HSS 10 x 6 x 1/4	10	6	0.250	0.250	25.82	7.59	21.0	37.0	103.1	20.6	3.69	25.1	46.9	15.6	2.49	17.7	8.875	4.875	103.1	28.0	2.60
HSS 10 x 6 x 3/16	10	6	0.188	0.188	19.63	5.78	28.9	50.2	80.0	16.0	3.72	19.3	36.5	12.2	2.51	13.6	9.156	5.156	79.3	21.4	2.61
HSS 10 x 5 x 5/8	10	5	0.625	0.625	55.06	16.2	5.0	13.0	183	36.6	3.36	48.3	60.2	24.1	1.93	29.3	7.188	2.188	157	50.3	2.32
HSS 10 x 5 x 1/2	10	5	0.500	0.500	45.45	13.4	7.0	17.0	158	31.6	3.43	40.8	52.5	21.0	1.98	25.0	7.750	2.750	134	42.3	2.36
HSS 10 x 5 x 3/8	10	5	0.375	0.375	35.13	10.33	10.3	23.7	128	25.6	3.52	32.3	42.9	17.2	2.04	19.9	8.313	3.313	107	33.2	2.39
HSS 10 x 5 x 5/16	10	5	0.313	0.313	29.72	8.75	13.0	28.9	110	22.0	3.55	27.7	37.3	14.9	2.06	17.0	8.594	3.594	91.6	28.3	2.41
HSS 10 x 5 x 1/4	10	5	0.250	0.250	24.12	7.09	17.0	37.0	91.2	18.2	3.59	22.7	31.1	12.4	2.09	14.0	8.875	3.875	75.2	23.1	2.43
HSS 10 x 5 x 3/16	10	5	0.188	0.188	18.35	5.41	23.6	50.2	70.9	14.2	3.62	17.5	24.3	9.72	2.12	10.8	9.156	4.156	58.1	17.7	2.45

Atlas HSS Section Properties (Rectangle) - CSA G40

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	t _{nom}						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in.	in.	in.						in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	
HSS 10 x 4 x 5/8	10	4	0.625	0.625	50.81	14.9	3.4	13.0	156	31.2	3.24	42.5	34.8	17.4	1.53	21.6	7.188	1.188	99.8	38.6	2.15
HSS 10 x 4 x 1/2	10	4	0.500	0.500	42.05	12.4	5.0	17.0	136	27.2	3.31	36.1	30.8	15.4	1.58	18.5	7.750	1.750	86.9	32.8	2.19
HSS 10 x 4 x 3/8	10	4	0.375	0.375	32.58	9.58	7.7	23.7	110	22.0	3.39	28.7	25.5	12.8	1.63	14.9	8.313	2.313	70.4	26.0	2.23
HSS 10 x 4 x 5/16	10	4	0.313	0.313	27.59	8.12	9.8	28.9	95.6	19.1	3.43	24.6	22.4	11.2	1.66	12.8	8.594	2.594	60.9	22.2	2.24
HSS 10 x 4 x 1/4	10	4	0.250	0.250	22.42	6.59	13.0	37.0	79.3	15.9	3.47	20.2	18.8	9.40	1.69	10.6	8.875	2.875	50.4	18.2	2.26
HSS 10 x 4 x 3/16	10	4	0.188	0.188	17.08	5.03	18.3	50.2	61.9	12.4	3.51	15.6	14.8	7.40	1.72	8.22	9.156	3.156	39.2	14.0	2.28
HSS 10 x 3.5 x 3/8	10	3.5	0.375	0.375	31.31	9.20	6.3	23.7	101.5	20.3	3.32	26.9	18.7	10.7	1.43	12.5	8.313	1.813	54.3	22.4	2.14
HSS 10 x 3.5 x 5/16	10	3.5	0.313	0.313	26.53	7.81	8.2	28.9	88.2	17.6	3.36	23.1	16.5	9.43	1.45	10.8	8.594	2.094	47.3	19.2	2.16
HSS 10 x 3.5 x 1/4	10	3.5	0.250	0.250	21.57	6.34	11.0	37.0	73.4	14.7	3.40	19.0	13.9	7.94	1.48	8.98	8.875	2.375	39.3	15.8	2.18
HSS 10 x 3.5 x 3/16	10	3.5	0.188	0.188	16.44	4.84	15.6	50.2	57.4	11.5	3.44	14.7	11.0	6.29	1.51	6.99	9.156	2.656	30.7	12.2	2.20
HSS 10 x 3.5 x 0.134	10	3.5	0.134	0.134	11.91	3.50	23.1	71.6	42.3	8.5	3.48	10.7	8.21	4.69	1.53	5.13	9.397	2.897	22.6	8.9	2.21
HSS 10 x 3 x 3/8	10	3	0.375	0.375	30.03	8.83	5.0	23.7	92.8	18.6	3.24	25.1	13.0	8.67	1.21	10.3	8.313	1.313	39.8	18.7	2.06
HSS 10 x 3 x 5/16	10	3	0.313	0.313	25.46	7.49	6.6	28.9	80.9	16.2	3.29	21.6	11.5	7.67	1.24	8.93	8.594	1.594	34.9	16.2	2.08
HSS 10 x 3 x 1/4	10	3	0.250	0.250	20.72	6.09	9.0	37.0	67.4	13.5	3.33	17.8	9.79	6.53	1.27	7.42	8.875	1.875	29.3	13.3	2.10
HSS 10 x 3 x 3/16	10	3	0.188	0.188	15.80	4.66	13.0	50.2	52.8	10.6	3.37	13.8	7.82	5.21	1.30	5.80	9.156	2.566	23.0	10.35	2.11
HSS 10 x 3 x 0.134	10	3	0.134	0.134	11.45	3.37	19.4	71.6	39.0	7.8	3.40	10.1	5.86	3.91	1.32	4.27	9.397	2.397	17.0	7.57	2.13
HSS 10 x 2 x 3/8	10	2	0.375	0.375	27.48	8.08	2.3	23.7	75.4	15.1	3.05	21.5	4.87	4.87	0.780	6.05	8.313	0.313	16.5	11.5	1.89
HSS 10 x 2 x 5/16	10	2	0.313	0.313	23.34	6.87	3.4	28.9	66.2	13.2	3.10	18.6	4.43	4.43	0.800	5.34	8.594	0.594	14.9	10.11	1.91
HSS 10 x 2 x 1/4	10	2	0.250	0.250	19.02	5.59	5.0	37.0	55.6	11.1	3.15	15.4	3.85	3.85	0.830	4.50	8.875	0.875	12.8	8.47	1.93
HSS 10 x 2 x 3/16	10	2	0.188	0.188	14.53	4.28	7.6	50.2	43.8	8.8	3.20	11.9	3.15	3.15	0.860	3.57	9.156	1.156	10.36	6.66	1.95
HSS 9 x 7 x 5/8	9	7	0.625	0.625	59.32	17.4	8.2	11.4	183	40.7	3.24	51.0	123	35.1	2.66	42.8	6.188	4.188	248	65.8	2.49
HSS 9 x 7 x 1/2	9	7	0.500	0.500	48.85	14.4	11.0	15.0	157	34.9	3.30	42.9	106	30.3	2.71	36.1	6.750	4.750	209	54.8	2.52
HSS 9 x 7 x 3/8	9	7	0.375	0.375	37.69	11.1	15.7	21.0	126	28.0	3.37	33.8	85.2	24.3	2.77	28.4	7.313	5.313	164	42.7	2.56
HSS 9 x 7 x 5/16	9	7	0.313	0.313	31.84	9.37	19.4	25.8	108	24.0	3.40	28.9	73.6	21.0	2.80	24.3	7.594	5.594	140	36.2	2.58
HSS 9 x 7 x 1/4	9	7	0.250	0.250	25.82	7.59	25.0	33.0	89.4	19.9	3.43	23.6	60.8	17.4	2.83	19.9	7.875	5.875	114	29.5	2.60
HSS 9 x 7 x 3/16	9	7	0.188	0.188	19.63	5.78	34.2	44.9	69.4	15.4	3.47	18.2	47.3	13.5	2.86	15.3	8.156	6.156	87.9	22.5	2.61
HSS 9 x 5 x 5/8	9	5	0.625	0.625	50.81	14.9	5.0	11.4	139	30.9	3.05	40.5	54.1	21.6	1.91	26.6	6.188	2.188	135	44.9	2.15
HSS 9 x 5 x 1/2	9	5	0.500	0.500	42.05	12.4	7.0	15.0	121	26.9	3.12	34.4	47.4	19.0	1.96	22.7	6.750	2.750	115	37.8	2.19
HSS 9 x 5 x 3/8	9	5	0.375	0.375	32.58	9.58	10.3	21.0	97.8	21.7	3.20	27.3	38.9	15.6	2.02	18.1	7.313	3.313	92.2	29.7	2.23
HSS 9 x 5 x 5/16	9	5	0.313	0.313	27.59	8.12	13.0	25.8	84.7	18.8	3.23	23.4	33.9	13.6	2.04	15.6	7.594	3.594	79.3	25.4	2.24
HSS 9 x 5 x 1/4	9	5	0.250	0.250	22.42	6.59	17.0	33.0	70.3	15.6	3.27	19.3	28.2	11.3	2.07	12.8	7.875	3.875	65.2	20.7	2.26
HSS 9 x 5 x 3/16	9	5	0.188	0.188	17.08	5.03	23.6	44.9	54.8	12.2	3.30	14.9	22.1	8.84	2.10	9.93	8.156	4.156	50.4	15.9	2.28
HSS 8 x 6 x 5/8	8	6	0.625	0.625	50.81	14.9	6.6	9.8	119	29.8	2.83	38.0	75.5	25.2	2.25	31.0	5.188	3.188	158	48.6	2.15
HSS 8 x 6 x 1/2	8	6	0.500	0.500	42.05	12.4	9.0	13.0	103.3	25.8	2.89	32.2	65.7	21.9	2.30	26.4	5.750	3.750	135	40.8	2.19
HSS 8 x 6 x 3/8	8	6	0.375	0.375	32.58	9.58	13.0	18.3	83.7	20.9	2.96	25.6	53.5	17.8	2.36	21.0	6.313	4.313	107	32.0	2.23
HSS 8 x 6 x 5/16	8	6	0.313	0.313	27.59	8.12	16.2	22.6	72.5	18.1	2.99	22.0	46.5	15.5	2.39	18.0	6.594	4.594	91.4	27.2	2.24
HSS 8 x 6 x 1/4	8	6	0.250	0.250	22.42	6.59	21.0	29.0	60.1	15.0	3.02	18.0	38.6	12.9	2.42	14.8	6.875	4.875	74.9	22.2	2.26
HSS 8 x 6 x 3/16	8	6	0.188	0.188	17.08	5.03	28.9	39.6	46.9	11.7	3.05	13.9	30.2	10.1	2.45	11.4	7.156	5.156	57.7	17.0	2.28
HSS 8 x 4 x 5/8	8	4	0.625	0.625	42.30	12.43	3.4	9.8	85.2	21.3	2.62	28.8	27.6	13.8	1.49	17.3	5.188	1.188	73.2	30.2	1.82
HSS 8 x 4 x 1/2	8	4	0.500	0.500	35.24	10.36	5.0	13.0	75.2	18.8	2.69	24.7	24.6	12.3	1.54	15.0	5.750	1.750	64.1	25.8	1.86
HSS 8 x 4 x 3/8	8	4	0.375	0.375	27.48	8.08	7.7	18.3	61.9	15.5	2.77	19.9	20.6	10.3	1.60	12.2	6.313	2.313	52.2	20.5	1.89
HSS 8 x 4 x 5/16	8	4	0.313	0.313	23.34	6.87	9.8	22.6	54.0	13.5	2.80	17.1	18.1	9.05	1.62	10.5	6.594	2.594	45.2	17.6	1.91
HSS 8 x 4 x 1/4	8	4	0.250	0.250	19.02	5.59	13.0	29.0	45.1	11.3	2.84	14.1	15.3	7.65	1.65	8.72	6.875	2.875	37.5	14.5	1.93
HSS 8 x 4 x 3/16	8	4	0.188	0.188	14.53	4.28	18.3	39.6	35.4	8.85	2.88	11.0	12.1	6.05	1.68	6.79	7.156	3.156	29.2	11.2	1.95
HSS 8 x 4 x 1/8	8	4	0.125	0.125	9.86	2.90	29.0	61.0	24.6	6.15	2.91	7.5	8.5	4.25	1.71	4.67	7.438	3.438	20.0	7.6	1.96

Atlas HSS Section Properties (Rectangle) - CSA G40

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	t _{nom}						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in.	in.	in.						in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	
HSS 8 x 3 x 1/2	8	3	0.500	0.500	31.84	9.36	3.0	13.0	61.1	15.3	2.55	21.0	12.1	8.07	1.14	10.1	5.750	0.750	35.7	18.3	1.69
HSS 8 x 3 x 3/8	8	3	0.375	0.375	24.93	7.33	5.0	18.3	51.0	12.8	2.64	17.0	10.4	6.93	1.19	8.31	6.313	1.313	29.9	14.8	1.73
HSS 8 x 3 x 5/16	8	3	0.313	0.313	21.21	6.24	6.6	22.6	44.8	11.2	2.68	14.7	9.26	6.17	1.22	7.25	6.594	1.594	26.3	12.8	1.74
HSS 8 x 3 x 1/4	8	3	0.250	0.250	17.32	5.09	9.0	29.0	37.6	9.40	2.72	12.2	7.90	5.27	1.25	6.05	6.875	1.875	22.1	10.6	1.76
HSS 8 x 3 x 3/16	8	3	0.188	0.188	13.25	3.90	13.0	39.6	29.7	7.43	2.76	9.51	6.33	4.22	1.27	4.74	7.156	2.156	17.4	8.23	1.78
HSS 8 x 3 x 1/8	8	3	0.125	0.125	9.01	2.65	21.0	61.0	20.7	5.18	2.79	6.55	4.48	2.99	1.30	3.29	7.438	2.438	12.1	5.65	1.80
HSS 8 x 2 x 3/8	8	2	0.375	0.375	22.37	6.58	2.3	18.3	40.1	10.03	2.47	14.2	3.86	3.86	0.770	4.83	6.313	0.313	12.6	9.09	1.56
HSS 8 x 2 x 5/16	8	2	0.313	0.313	19.08	5.62	3.4	22.6	35.5	8.88	2.51	12.3	3.53	3.53	0.790	4.28	6.594	0.594	11.4	8.00	1.58
HSS 8 x 2 x 1/4	8	2	0.250	0.250	15.62	4.59	5.0	29.0	30.1	7.53	2.56	10.27	3.08	3.08	0.820	3.63	6.875	0.875	9.84	6.72	1.60
HSS 8 x 2 x 3/16	8	2	0.188	0.188	11.97	3.53	7.6	39.6	23.9	5.98	2.60	8.04	2.53	2.53	0.850	2.89	7.156	1.156	7.95	5.30	1.61
HSS 8 x 2 x 1/8	8	2	0.125	0.125	8.16	2.40	13.0	61.0	16.8	4.20	2.65	5.56	1.83	1.83	0.870	2.03	7.438	1.438	5.66	3.68	1.63
HSS 7 x 5 x 1/2	7	5	0.500	0.500	35.24	10.36	7.0	11.0	63.5	18.1	2.48	23.1	37.3	14.9	1.90	18.2	4.750	2.750	79.9	28.8	1.86
HSS 7 x 5 x 3/8	7	5	0.375	0.375	27.48	8.08	10.3	15.7	52.2	14.9	2.54	18.5	30.8	12.3	1.95	14.6	5.313	3.313	64.2	22.8	1.89
HSS 7 x 5 x 5/16	7	5	0.313	0.313	23.34	6.87	13.0	19.4	45.5	13.0	2.57	16.0	27.0	10.8	1.98	12.6	5.594	3.594	55.4	19.5	1.91
HSS 7 x 5 x 1/4	7	5	0.250	0.250	19.02	5.59	17.0	25.0	38.0	10.9	2.61	13.2	22.6	9.04	2.01	10.4	5.875	3.875	45.6	16.0	1.93
HSS 7 x 5 x 3/16	7	5	0.188	0.188	14.53	4.28	23.6	34.2	29.8	8.51	2.64	10.21	17.8	7.12	2.04	8.12	6.156	4.156	35.3	12.3	1.95
HSS 7 x 5 x 1/8	7	5	0.125	0.125	9.86	2.90	37.0	53.0	20.7	5.91	2.67	7.00	12.4	4.96	2.07	5.58	6.438	4.438	24.2	8.37	1.96
HSS 7 x 4 x 1/2	7	4	0.500	0.500	31.84	9.36	5.0	11.0	52.9	15.1	2.38	19.8	21.6	10.8	1.52	13.3	4.750	1.750	53.0	22.3	1.69
HSS 7 x 4 x 3/8	7	4	0.375	0.375	24.93	7.33	7.7	15.7	44.0	12.6	2.45	16.0	18.1	9.05	1.57	10.8	5.313	2.313	43.3	17.8	1.73
HSS 7 x 4 x 5/16	7	4	0.313	0.313	21.21	6.24	9.8	19.4	38.5	11.0	2.48	13.9	16.0	8.00	1.60	9.37	5.594	2.594	37.6	15.3	1.74
HSS 7 x 4 x 1/4	7	4	0.250	0.250	17.32	5.09	13.0	25.0	32.3	9.23	2.52	11.5	13.5	6.75	1.63	7.78	5.875	2.875	31.2	12.6	1.76
HSS 7 x 4 x 3/16	7	4	0.188	0.188	13.25	3.90	18.3	34.2	25.5	7.29	2.56	8.93	10.7	5.35	1.66	6.07	6.156	3.156	24.3	9.74	1.78
HSS 7 x 4 x 1/8	7	4	0.125	0.125	9.01	2.65	29.0	53.0	17.7	5.06	2.58	6.15	7.51	3.76	1.68	4.19	6.438	3.438	16.7	6.65	1.80
HSS 7 x 3 x 1/2	7	3	0.500	0.500	28.43	8.36	3.0	11.0	42.3	12.1	2.25	16.6	10.5	7.00	1.12	8.84	4.750	0.750	29.8	15.8	1.52
HSS 7 x 3 x 3/8	7	3	0.375	0.375	22.37	6.58	5.0	15.7	35.7	10.20	2.33	13.5	9.10	6.07	1.18	7.32	5.313	1.313	25.1	12.8	1.56
HSS 7 x 3 x 5/16	7	3	0.313	0.313	19.08	5.62	6.6	19.4	31.5	9.00	2.37	11.8	8.13	5.42	1.20	6.41	5.594	1.594	22.1	11.1	1.58
HSS 7 x 3 x 1/4	7	3	0.250	0.250	15.62	4.59	9.0	25.0	26.6	7.60	2.41	9.79	6.95	4.63	1.23	5.36	5.875	1.875	18.5	9.22	1.60
HSS 7 x 3 x 3/16	7	3	0.188	0.188	11.97	3.53	13.0	34.2	21.1	6.03	2.44	7.65	5.58	3.72	1.26	4.21	6.156	2.156	14.6	7.18	1.61
HSS 7 x 3 x 1/8	7	3	0.125	0.125	8.16	2.40	21.0	53.0	14.8	4.23	2.48	5.29	3.96	2.64	1.28	2.93	6.438	2.438	10.15	4.93	1.63
HSS 6 x 5 x 1/2	6	5	0.500	0.500	31.84	9.36	7.0	9.0	43.0	14.3	2.14	18.1	32.2	12.9	1.85	16.0	3.750	2.750	62.9	24.3	1.69
HSS 6 x 5 x 3/8	6	5	0.375	0.375	24.93	7.33	10.3	13.0	35.7	11.9	2.21	14.7	26.8	10.7	1.91	12.9	4.313	3.313	50.9	19.3	1.73
HSS 6 x 5 x 5/16	6	5	0.313	0.313	21.21	6.24	13.0	16.2	31.3	10.43	2.24	12.7	23.5	9.40	1.94	11.2	4.594	3.594	44.0	16.6	1.74
HSS 6 x 5 x 1/4	6	5	0.250	0.250	17.32	5.09	17.0	21.0	26.2	8.73	2.27	10.49	19.8	7.92	1.97	9.26	4.875	3.875	36.3	13.6	1.76
HSS 6 x 5 x 3/16	6	5	0.188	0.188	13.25	3.90	23.6	28.9	20.7	6.90	2.30	8.17	15.6	6.24	2.00	7.21	5.156	4.156	28.2	10.49	1.78
HSS 6 x 5 x 1/8	6	5	0.125	0.125	9.01	2.65	37.0	45.0	14.4	4.80	2.33	5.62	10.9	4.36	2.03	4.97	5.438	4.438	19.3	7.15	1.80
HSS 6 x 4 x 1/2	6	4	0.500	0.500	28.43	8.36	5.0	9.0	35.4	11.8	2.06	15.4	18.5	9.25	1.49	11.5	3.750	1.750	42.1	18.8	1.52
HSS 6 x 4 x 3/8	6	4	0.375	0.375	22.37	6.58	7.7	13.0	29.7	9.90	2.12	12.5	15.7	7.85	1.54	9.44	4.313	2.313	34.6	15.1	1.56
HSS 6 x 4 x 5/16	6	4	0.313	0.313	19.08	5.62	9.8	16.2	26.2	8.73	2.16	10.9	13.9	6.95	1.57	8.22	4.594	2.594	30.1	13.0	1.58
HSS 6 x 4 x 1/4	6	4	0.250	0.250	15.62	4.59	13.0	21.0	22.1	7.37	2.19	9.06	11.7	5.85	1.60	6.84	4.875	2.875	25.0	10.7	1.60
HSS 6 x 4 x 3/16	6	4	0.188	0.188	11.97	3.53	18.3	28.9	17.5	5.83	2.23	7.07	9.34	4.67	1.63	5.36	5.156	3.156	19.6	8.30	1.61
HSS 6 x 4 x 1/8	6	4	0.125	0.125	8.16	2.40	29.0	45.0	12.2	4.07	2.25	4.88	6.57	3.29	1.65	3.71	5.438	3.438	13.5	5.68	1.63
HSS 6 x 3 x 1/2	6	3	0.500	0.500	25.03	7.36	3.0	9.0	27.8	9.27	1.94	12.6	8.96	5.97	1.10	7.59	3.750	0.750	23.9	13.3	1.36
HSS 6 x 3 x 3/8	6	3	0.375	0.375	19.82	5.83	5.0	13.0	23.8	7.93	2.02	10.44	7.80	5.20	1.16	6.34	4.313	1.313	20.3	10.9	1.39
HSS 6 x 3 x 5/16	6	3	0.313	0.313	16.96	4.99	6.6	16.2	21.1	7.03	2.06	9.12	6.99	4.66	1.18	5.56	4.594	1.594	17.9	9.45	1.41
HSS 6 x 3 x 1/4	6	3	0.250	0.250	13.91	4.09	9.0	21.0	17.9	5.97	2.09	7.62	6.00	4.00	1.21	4.67	4.875	1.875	15.1	7.85	1.43
HSS 6 x 3 x 3/16	6	3	0.188	0.188	10.70	3.15	13.0	28.9	14.3	4.77	2.13	5.98	4.84	3.23	1.24	3.69	5.156	2.156	11.9	6.12	1.45
HSS 6 x 3 x 1/8	6	3	0.125	0.125	7.31	2.15	21.0	45.0	10.08	3.36	2.17	4.15	3.45	2.30	1.27	2.57	5.438	2.438	8.27	4.22	1.46

Atlas HSS Section Properties (Rectangle) - CSA G40

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	t _{nom}						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	
HSS 6 x 2 x 3/8	6	2	0.375	0.375	17.27	5.08	2.3	13.0	17.8	5.93	1.87	8.33	2.85	2.85	0.750	3.61	4.313	0.313	8.72	6.65	1.23
HSS 6 x 2 x 5/16	6	2	0.313	0.313	14.83	4.36	3.4	16.2	16.1	5.37	1.92	7.34	2.62	2.62	0.780	3.23	4.594	0.594	7.94	5.89	1.24
HSS 6 x 2 x 1/4	6	2	0.250	0.250	12.21	3.59	5.0	21.0	13.8	4.60	1.96	6.18	2.31	2.31	0.800	2.75	4.875	0.875	6.88	4.97	1.26
HSS 6 x 2 x 3/16	6	2	0.188	0.188	9.42	2.78	7.6	28.9	11.1	3.70	2.00	4.89	1.91	1.91	0.830	2.20	5.156	1.156	5.58	3.93	1.28
HSS 6 x 2 x 1/8	6	2	0.125	0.125	6.46	1.90	13.0	45.0	7.92	2.64	2.04	3.42	1.39	1.39	0.860	1.56	5.438	1.438	3.98	2.75	1.30
HSS 5 x 4 x 1/2	5	4	0.500	0.500	25.03	7.36	5.0	7.0	22.0	8.80	1.73	11.5	15.4	7.70	1.45	9.77	2.750	1.750	31.7	15.3	1.36
HSS 5 x 4 x 3/8	5	4	0.375	0.375	19.82	5.83	7.7	10.3	18.8	7.52	1.80	9.44	13.2	6.60	1.50	8.08	3.313	2.313	26.3	12.4	1.39
HSS 5 x 4 x 5/16	5	4	0.313	0.313	16.96	4.99	9.8	13.0	16.6	6.64	1.82	8.25	11.7	5.85	1.53	7.06	3.594	2.594	22.9	10.7	1.41
HSS 5 x 4 x 1/4	5	4	0.250	0.250	13.91	4.09	13.0	17.0	14.1	5.64	1.86	6.89	9.98	4.99	1.56	5.90	3.875	2.875	19.1	8.85	1.43
HSS 5 x 4 x 3/16	5	4	0.188	0.188	10.70	3.15	18.3	23.6	11.3	4.52	1.89	5.40	7.98	3.99	1.59	4.64	4.156	3.156	15.0	6.87	1.45
HSS 5 x 4 x 1/8	5	4	0.125	0.125	7.31	2.15	29.0	37.0	7.93	3.17	1.92	3.75	5.64	2.82	1.62	3.22	4.438	3.438	10.35	4.72	1.46
HSS 5 x 3 x 1/2	5	3	0.500	0.500	21.63	6.36	3.0	7.0	16.9	6.76	1.63	9.20	7.37	4.91	1.08	6.34	2.750	0.750	18.2	10.8	1.19
HSS 5 x 3 x 3/8	5	3	0.375	0.375	17.27	5.08	5.0	10.3	14.7	5.88	1.70	7.71	6.50	4.33	1.13	5.35	3.313	1.313	15.6	8.90	1.23
HSS 5 x 3 x 5/16	5	3	0.313	0.313	14.83	4.36	6.6	13.0	13.2	5.28	1.74	6.78	5.86	3.91	1.16	4.72	3.594	1.594	13.8	7.77	1.24
HSS 5 x 3 x 1/4	5	3	0.250	0.250	12.21	3.59	9.0	17.0	11.3	4.52	1.77	5.70	5.05	3.37	1.19	3.98	3.875	1.875	11.7	6.47	1.26
HSS 5 x 3 x 3/16	5	3	0.188	0.188	9.42	2.78	13.0	23.6	9.08	3.63	1.81	4.50	4.09	2.73	1.21	3.16	4.156	2.156	9.23	5.06	1.28
HSS 5 x 3 x 1/8	5	3	0.125	0.125	6.46	1.90	21.0	37.0	6.44	2.58	1.84	3.14	2.93	1.95	1.24	2.21	4.438	2.438	6.44	3.50	1.30
HSS 5 x 2.5 x 1/4	5	2.5	0.250	0.250	11.36	3.34	7.0	17.0	9.89	3.96	1.72	5.11	3.28	2.62	0.99	3.12	3.875	1.375	8.36	5.28	1.18
HSS 5 x 2.5 x 3/16	5	2.5	0.188	0.188	8.78	2.59	10.3	23.6	7.99	3.20	1.76	4.05	2.69	2.15	1.02	2.49	4.156	1.656	6.88	4.16	1.20
HSS 5 x 2.5 x 0.165	5	2.5	0.165	0.165	7.81	2.30	12.2	27.3	7.20	2.88	1.77	3.62	2.43	1.94	1.03	2.23	4.258	1.758	5.99	3.71	1.20
HSS 5 x 2.5 x 1/8	5	2.5	0.125	0.125	6.03	1.77	17.0	37.0	5.70	2.28	1.79	2.83	1.94	1.55	1.05	1.75	4.438	1.938	4.70	2.89	1.21
HSS 5 x 2 x 3/8	5	2	0.375	0.375	14.72	4.33	2.3	10.3	10.7	4.28	1.57	5.98	2.35	2.35	0.740	3.00	3.313	0.313	6.82	5.43	1.06
HSS 5 x 2 x 5/16	5	2	0.313	0.313	12.70	3.74	3.4	13.0	9.76	3.90	1.62	5.31	2.17	2.17	0.760	2.70	3.594	0.594	6.24	4.83	1.08
HSS 5 x 2 x 1/4	5	2	0.250	0.250	10.51	3.09	5.0	17.0	8.48	3.39	1.66	4.51	1.93	1.93	0.790	2.32	3.875	0.875	5.43	4.10	1.10
HSS 5 x 2 x 3/16	5	2	0.188	0.188	8.15	2.40	7.6	23.6	6.90	2.76	1.70	3.59	1.60	1.60	0.820	1.86	4.156	1.156	4.41	3.25	1.11
HSS 5 x 2 x 1/8	5	2	0.125	0.125	5.61	1.65	13.0	37.0	4.96	1.98	1.73	2.53	1.17	1.17	0.840	1.32	4.438	1.438	3.15	2.28	1.13
HSS 4 x 3 x 3/8	4	3	0.375	0.375	14.72	4.33	5.0	7.7	8.23	4.12	1.38	5.36	5.19	3.46	1.09	4.37	2.313	1.313	11.1	6.93	1.06
HSS 4 x 3 x 5/16	4	3	0.313	0.313	12.70	3.74	6.6	9.8	7.46	3.73	1.41	4.75	4.72	3.15	1.12	3.88	2.594	1.594	9.90	6.08	1.08
HSS 4 x 3 x 1/4	4	3	0.250	0.250	10.51	3.09	9.0	13.0	6.46	3.23	1.45	4.03	4.11	2.74	1.15	3.30	2.875	1.875	8.41	5.10	1.10
HSS 4 x 3 x 3/16	4	3	0.188	0.188	8.15	2.40	13.0	18.3	5.24	2.62	1.48	3.21	3.35	2.23	1.18	2.63	3.156	2.156	6.68	4.00	1.11
HSS 4 x 3 x 1/8	4	3	0.125	0.125	5.61	1.65	21.0	29.0	3.76	1.88	1.51	2.25	2.41	1.61	1.21	1.85	3.438	2.438	4.68	2.78	1.13
HSS 4 x 2.5 x 1/4	4	2.5	0.250	0.250	9.66	2.84	7.0	13.0	5.58	2.79	1.40	3.56	2.65	2.12	0.970	2.56	2.875	1.375	6.09	4.16	1.012
HSS 4 x 2.5 x 3/16	4	2.5	0.188	0.188	7.51	2.21	10.3	18.3	4.56	2.28	1.44	2.85	2.18	1.74	0.990	2.05	3.156	1.656	4.89	3.29	1.030
HSS 4 x 2.5 x 1/8	4	2.5	0.125	0.125	5.18	1.52	17.0	29.0	3.29	1.65	1.47	2.01	1.59	1.27	1.020	1.45	3.438	1.938	3.45	2.29	1.048
HSS 4 x 2 x 3/8	4	2	0.375	0.375	12.17	3.58	2.3	7.7	5.76	2.88	1.27	4.00	1.84	1.84	0.720	2.39	2.313	0.313	4.97	4.21	0.893
HSS 4 x 2 x 5/16	4	2	0.313	0.313	10.58	3.11	3.4	9.8	5.33	2.67	1.31	3.60	1.72	1.72	0.740	2.17	2.594	0.594	4.58	3.78	0.910
HSS 4 x 2 x 1/4	4	2	0.250	0.250	8.81	2.59	5.0	13.0	4.70	2.35	1.35	3.09	1.54	1.54	0.770	1.88	2.875	0.875	4.01	3.22	0.928
HSS 4 x 2 x 3/16	4	2	0.188	0.188	6.87	2.02	7.6	18.3	3.88	1.94	1.39	2.49	1.29	1.29	0.800	1.52	3.156	1.156	3.27	2.57	0.946
HSS 4 x 2 x 1/8	4	2	0.125	0.125	4.75	1.40	13.0	29.0	2.82	1.41	1.42	1.77	0.954	0.954	0.830	1.09	3.438	1.438	2.34	1.81	0.964
HSS 3.5 x 2.5 x 1/4	3.5	2.5	0.250	0.250	8.81	2.59	7.0	11.0	3.97	2.27	1.24	2.88	2.33	1.86	0.950	2.28	2.375	1.375	4.99	3.60	0.928
HSS 3.5 x 2.5 x 3/16	3.5	2.5	0.188	0.188	6.87	2.02	10.3	15.6	3.27	1.87	1.27	2.32	1.93	1.54	0.980	1.83	2.656	1.656	4.02	2.85	0.946
HSS 3.5 x 2.5 x 1/8	3.5	2.5	0.125	0.125	4.75	1.40	17.0	25.0	2.38	1.36	1.30	1.65	1.41	1.13	1.00	1.31	2.938	1.938	2.85	2.00	0.964
HSS 3.5 x 2 x 1/4	3.5	2	0.250	0.250	7.96	2.34	5.0	11.0	3.31	1.89	1.19	2.48	1.35	1.35	0.76	1.66	2.375	0.875	3.31	2.78	0.845
HSS 3.5 x 2 x 3/16	3.5	2	0.188	0.188	6.25	1.84	7.6	15.6	2.75	1.57	1.22	2.01	1.13	1.13	0.78	1.35	2.654	1.154	2.71	2.23	0.863
HSS 3.5 x 2 x 1/8	3.5	2	0.125	0.125	4.33	1.27	13.0	25.0	2.02	1.15	1.26	1.43	0.84	0.84	0.81	0.97	2.938	1.438	1.95	1.57	0.881

Atlas HSS Section Properties (Rectangle) - CSA G40

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	t _{nom}						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in.	in.	in.						in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	
HSS 3.5 x 1.5 x 3/16	3.5	1.5	0.188	0.188	5.59	1.65	5.0	15.6	2.24	1.28	1.17	1.70	0.569	0.759	0.590	0.917	2.656	0.656	1.57	1.61	0.780
HSS 3.5 x 1.5 x 1/8	3.5	1.5	0.125	0.125	3.90	1.15	9.0	25.0	1.66	0.949	1.20	1.22	0.434	0.579	0.610	0.670	2.938	0.938	1.16	1.15	0.798
HSS 3 x 2.5 x 1/4	3	2.5	0.250	0.250	7.96	2.34	7.0	9.0	2.68	1.79	1.07	2.27	2.01	1.61	0.930	1.99	1.875	1.375	3.93	3.03	0.845
HSS 3 x 2.5 x 3/16	3	2.5	0.188	0.188	6.23	1.84	10.3	13.0	2.23	1.49	1.10	1.84	1.68	1.344	0.960	1.62	2.156	1.656	3.19	2.42	0.863
HSS 3 x 2.5 x 1/8	3	2.5	0.125	0.125	4.33	1.27	17.0	21.0	1.64	1.093	1.14	1.31	1.24	0.992	0.990	1.16	2.438	1.938	2.27	1.70	0.881
HSS 3 x 2 x 1/4	3	2	0.250	0.250	7.11	2.09	5.0	9.0	2.21	1.47	1.03	1.92	1.15	1.15	0.740	1.44	1.875	0.875	2.63	2.35	0.762
HSS 3 x 2 x 3/16	3	2	0.188	0.188	5.59	1.65	7.6	13.0	1.86	1.24	1.06	1.57	0.980	0.980	0.770	1.18	2.156	1.156	2.17	1.89	0.780
HSS 3 x 2 x 1/8	3	2	0.125	0.125	3.90	1.15	13.0	21.0	1.38	0.920	1.10	1.13	0.734	0.734	0.800	0.855	2.438	1.438	1.57	1.34	0.798
HSS 3 x 1.5 x 3/16	3	1.5	0.188	0.188	4.96	1.46	5.0	13.0	1.49	0.993	1.01	1.31	0.488	0.651	0.580	0.794	2.156	0.656	1.27	1.36	0.696
HSS 3 x 1.5 x 1/8	3	1.5	0.125	0.125	3.48	1.022	9.0	21.0	1.12	0.747	1.05	0.952	0.375	0.500	0.610	0.584	2.438	0.938	0.941	0.981	0.714
HSS 3 x 1 x 3/16	3	1	0.188	0.188	4.32	1.27	2.3	13.0	1.12	0.747	0.939	1.043	0.178	0.356	0.370	0.452	2.156	0.156	0.546	0.833	0.613
HSS 3 x 1 x 1/8	3	1	0.125	0.125	3.05	0.897	5.0	21.0	0.863	0.575	0.981	0.773	0.144	0.288	0.400	0.344	2.438	0.438	0.430	0.621	0.631
HSS 2.5 x 2 x 1/4	2.5	2	0.250	0.250	6.26	1.84	5.0	7.0	1.38	1.10	0.866	1.43	0.962	0.962	0.720	1.22	1.375	0.875	1.98	1.91	0.678
HSS 2.5 x 2 x 3/16	2.5	2	0.188	0.188	4.96	1.46	7.6	10.3	1.17	0.936	0.895	1.18	0.825	0.825	0.750	1.01	1.656	1.156	1.64	1.55	0.696
HSS 2.5 x 2 x 1/8	2.5	2	0.125	0.125	3.48	1.022	13.0	17.0	0.883	0.706	0.930	0.861	0.624	0.624	0.780	0.738	1.938	1.438	1.20	1.11	0.714
HSS 2.5 x 1.5 x 3/16	2.5	1.5	0.188	0.188	4.32	1.27	5.0	10.3	0.923	0.738	0.853	0.965	0.407	0.543	0.570	0.670	1.656	0.656	0.977	1.11	0.613
HSS 2.5 x 1.5 x 1/8	2.5	1.5	0.125	0.125	3.05	0.897	9.0	17.0	0.706	0.565	0.887	0.712	0.316	0.421	0.590	0.498	1.938	0.938	0.729	0.809	0.631
HSS 2.5 x 1 x 3/16	2.5	1	0.188	0.188	3.69	1.084	2.3	10.3	0.671	0.537	0.787	0.748	0.147	0.294	0.370	0.376	1.654	0.154	0.427	0.680	0.530
HSS 2.5 x 1 x 1/8	2.5	1	0.125	0.125	2.63	0.772	5.0	17.0	0.530	0.424	0.829	0.564	0.120	0.240	0.390	0.289	1.938	0.438	0.339	0.512	0.548
HSS 2 x 1.5 x 3/16	2	1.5	0.188	0.188	3.68	1.08	5.0	7.6	0.515	0.515	0.691	0.671	0.325	0.433	0.550	0.547	1.156	0.656	0.696	0.868	0.530
HSS 2 x 1.5 x 1/8	2	1.5	0.125	0.125	2.63	0.772	9.0	13.0	0.404	0.404	0.723	0.504	0.257	0.343	0.580	0.412	1.438	0.938	0.525	0.637	0.548
HSS 2 x 1 x 1/8	2	1	0.125	0.125	2.20	0.647	5.0	13.0	0.294	0.294	0.674	0.386	0.0962	0.192	0.390	0.235	1.438	0.438	0.250	0.403	0.464