

Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Mass	Dead Load	Area, A	D/t	I	S	r	Z	Torsion		Surface Area
												J	C	
	mm	mm	mm	kg/m	kN/m	mm ²		10 ⁶ mm ⁴	10 ³ mm ³	mm	10 ³ mm ³	10 ³ mm ⁴	10 ³ mm ³	m ² /m
HSS 28.000 x 1.000	711.2	25.40	25.40	430	4.22	54700	28.0	3220	9060	243	12000	6440000	18100	2.23
HSS 28.000 x 0.875	711.2	22.23	22.23	378	3.71	48100	32.0	2860	8040	244	10600	5710000	16100	2.23
HSS 28.000 x 0.750	711.2	19.05	19.05	325	3.19	41400	37.3	2480	6970	245	9130	4960000	13900	2.23
HSS 28.000 x 0.625	711.2	15.88	15.88	272	2.67	34700	44.8	2100	5910	246	7680	4190000	11800	2.23
HSS 28.000 x 0.500	711.2	12.70	12.70	219	2.15	27900	56.0	1700	4780	247	6200	3400000	9560	2.23
HSS 24.000 x 1.000	609.6	25.40	25.40	366	3.59	46600	24.0	1990	6530	207	8670	3990000	13100	1.92
HSS 24.000 x 0.875	609.6	22.23	22.23	322	3.16	41000	27.4	1770	5810	208	7670	3540000	11600	1.92
HSS 24.000 x 0.750	609.6	19.05	19.05	277	2.72	35300	32.0	1540	5050	209	6650	3080000	10100	1.92
HSS 24.000 x 0.625	609.6	15.88	15.88	232	2.28	29600	38.4	1310	4300	210	5600	2610000	8560	1.92
HSS 24.000 x 0.500	609.6	12.70	12.70	187	1.83	23800	48.0	1060	3480	211	4530	2120000	6960	1.92
HSS 24.000 x 0.375	609.6	9.53	9.53	141	1.38	18000	64.0	809	2650	212	3430	1620000	5310	1.92
HSS 20.000 x 1.000	508	25.40	25.40	302	2.96	38500	20.0	1120	4410	171	5920	2250000	8860	1.60
HSS 20.000 x 0.875	508	22.23	22.23	266	2.61	33900	22.9	1000	3940	172	5250	2010000	7910	1.60
HSS 20.000 x 0.750	508	19.05	19.05	230	2.26	29300	26.7	876	3450	173	4560	1750000	6890	1.60
HSS 20.000 x 0.625	508	15.88	15.88	193	1.89	24600	32.0	744	2930	174	3850	1490000	5870	1.60
HSS 20.000 x 0.500	508	12.70	12.70	155	1.52	19800	40.0	606	2390	175	3120	1210000	4760	1.60
HSS 20.000 x 0.375	508	9.53	9.53	117	1.15	14900	53.3	464	1830	176	2370	927000	3650	1.60
HSS 20.000 x 0.313	508	7.95	7.95	98.0	0.961	12500	63.9	390	1540	177	1990	781000	3070	1.60
HSS 20.000 x 0.250	508	6.35	6.35	78.6	0.771	10000	80.0	315	1240	177	1600	630000	2480	1.60
HSS 18.000 x 1.000	457.2	25.40	25.40	270	2.65	34500	18.0	806	3530	153	4740	1610000	7040	1.44
HSS 18.000 x 0.875	457.2	22.23	22.23	238	2.33	30400	20.6	720	3150	154	4210	1440000	6300	1.44
HSS 18.000 x 0.750	457.2	19.05	19.05	206	2.02	26200	24.0	630	2760	155	3660	1260000	5510	1.44
HSS 18.000 x 0.625	457.2	15.88	15.88	173	1.70	22000	28.8	537	2350	156	3090	1070000	4680	1.44
HSS 18.000 x 0.500	457.2	12.70	12.70	139	1.36	17700	36.0	438	1920	157	2510	877000	3840	1.44
HSS 18.000 x 0.375	457.2	9.53	9.53	105	1.03	13400	48.0	336	1470	158	1910	671000	2940	1.44
HSS 18.000 x 0.313	457.2	7.95	7.95	88	0.86	11200	57.5	283	1240	159	1600	566000	2480	1.44
HSS 18.000 x 0.250	457.2	6.35	6.35	70.6	0.692	8990	72.0	229	1000	160	1290	457000	2000	1.44

Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Mass	Dead Load	Area, A	D/t	I	S	r	Z	Torsion		Surface Area	
												J	C		
HSS 16.000 x 1.000	406.4	25.40	25.40	239	2.34	30400	16.0	554	2730	135	3690	1110000	5460	1.28	
HSS 16.000 x 0.875	406.4	22.23	22.23	211	2.07	26800	18.3	497	2450	136	3280	993000	4890	1.28	
HSS 16.000 x 0.750	406.4	19.05	19.05	182	1.78	23200	21.3	436	2150	137	2860	872000	4290	1.28	
HSS 16.000 x 0.625	406.4	15.88	15.88	153	1.50	19500	25.6	372	1830	138	2420	744000	3660	1.28	
HSS 16.000 x 0.500	406.4	12.70	12.70	123	1.21	15700	32.0	305	1500	139	1970	609000	3000	1.28	
HSS 16.000 x 0.375	406.4	9.53	9.53	93.2	0.914	11880	42.6	234	1150	140	1500	468000	2300	1.28	
HSS 16.000 x 0.313	406.4	7.95	7.95	78.1	0.766	9950	51.1	198	974	141	1260	395000	1940	1.28	
HSS 16.000 x 0.250	406.4	6.35	6.35	62.6	0.614	7980	64.0	160	787	142	1020	319000	1570	1.28	
HSS 16.000 x 0.188	406.4	4.78	4.78	47.3	0.464	6030	85.0	122	600	142	771	243000	1200	1.28	
HSS 14.000 x 0.875	355.6	22.23	22.23	183	1.79	23300	16.0	325	1830	118	2470	650000	3660	1.12	
HSS 14.000 x 0.750	355.6	19.05	19.05	158	1.55	20100	18.7	286	1610	119	2160	572000	3220	1.12	
HSS 14.000 x 0.625	355.6	15.88	15.88	133	1.30	16900	22.4	245	1380	120	1830	490000	2760	1.12	
HSS 14.000 x 0.500	355.6	12.70	12.70	107	1.05	13700	28.0	201	1130	121	1490	403000	2270	1.12	
HSS 14.000 x 0.375	355.6	9.53	9.53	81.3	0.797	10400	37.3	155	870	122	1140	310000	1740	1.12	
HSS 14.000 x 0.313	355.6	7.95	7.95	68.2	0.669	8680	44.7	131	737	123	961	262000	1470	1.12	
HSS 14.000 x 0.250	355.6	6.35	6.35	54.7	0.536	6970	56.0	106	596	123	775	213000	1200	1.12	
HSS 14.000 x 0.188	355.6	4.78	4.78	41.3	0.405	5270	74.4	81.1	456	124	590	162000	911	1.12	
HSS 13.375 x 0.625	339.725	15.88	15.88	127	1.25	16200	21.4	212	1250	114	1670	424000	2500	1.07	
HSS 13.375 x 0.500	339.725	12.70	12.70	102	1.00	13000	26.8	175	1030	116	1360	349000	2050	1.07	
HSS 13.375 x 0.375	339.725	9.53	9.53	77.6	0.761	9890	35.6	135	795	117	1040	270000	1590	1.07	
HSS 13.375 x 0.313	339.725	7.95	7.95	65.0	0.637	8290	42.7	114	671	117	875	228000	1340	1.07	
HSS 13.375 x 0.250	339.725	6.35	6.35	52.2	0.512	6650	53.5	92.4	544	118	706	185000	1090	1.07	
HSS 12.750 x 0.750	323.85	19.05	19.05	143	1.40	18200	17.0	213	1320	108	1770	425000	2620	1.02	
HSS 12.750 x 0.625	323.85	15.88	15.88	121	1.19	15400	20.4	183	1130	109	1510	365000	2250	1.02	
HSS 12.750 x 0.500	323.85	12.70	12.70	97.5	0.956	12400	25.5	150	926	110	1230	301000	1860	1.02	
HSS 12.750 x 0.375	323.85	9.53	9.53	73.8	0.724	9410	34.0	116	716	111	942	233000	1440	1.02	
HSS 12.750 x 0.313	323.85	7.95	7.95	61.9	0.607	7890	40.7	98.5	608	112	794	197000	1217	1.02	
HSS 12.750 x 0.250	323.85	6.35	6.35	49.7	0.487	6330	51.0	79.8	493	112	640	160000	988	1.02	
HSS 12.000 x 0.625	304.8	15.88	15.88	113	1.11	14400	19.2	151	991	102	1330	302000	1980	0.958	
HSS 12.000 x 0.500	304.8	12.70	12.70	91.5	0.897	11700	24.0	125	820	103	1080	249000	1630	0.958	
HSS 12.000 x 0.375	304.8	9.53	9.53	69.4	0.681	8840	32.0	96.4	633	104	831	193000	1270	0.958	
HSS 12.000 x 0.313	304.8	7.95	7.95	58.2	0.571	7410	38.3	81.7	536	105	701	163000	1070	0.958	
HSS 12.000 x 0.250	304.8	6.35	6.35	46.7	0.458	5950	48.0	66.3	435	106	566	133000	873	0.958	

Atlas HSS Section Properties (Round) - CSA G40

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												J	C	
HSS 11.750 x 0.625	298.45	15.88	15.88	111	1.09	14100	18.8	141	945	100	1270	282000	1890	0.938
HSS 11.750 x 0.500	298.45	12.70	12.70	89.5	0.878	11400	23.5	117	784	101	1040	233000	1560	0.938
HSS 11.750 x 0.375	298.45	9.53	9.53	67.9	0.666	8650	31.3	90.4	606	102	796	181000	1210	0.938
HSS 11.750 x 0.250	298.45	6.35	6.35	45.7	0.448	5830	47.0	62.2	417	103	542	124000	831	0.938
HSS 10.750 x 0.625	273.05	15.88	15.88	101	0.991	12800	17.2	106	776	91.0	1050	213000	1560	0.858
HSS 10.750 x 0.500	273.05	12.70	12.70	81.5	0.799	10400	21.5	88.2	646	92.1	862	176000	1290	0.858
HSS 10.750 x 0.375	273.05	9.53	9.53	61.9	0.607	7890	28.7	68.6	502	93.2	662	137000	1000	0.858
HSS 10.750 x 0.365	273.05	9.27	9.27	60.3	0.591	7680	29.5	66.9	490	93.3	645	134000	982	0.858
HSS 10.750 x 0.313	273.05	7.95	7.95	52.0	0.510	6620	34.3	58.2	426	93.8	559	116000	850	0.858
HSS 10.750 x 0.250	273.05	6.35	6.35	41.8	0.410	5320	43.0	47.3	346	94.3	452	94700	694	0.858
HSS 10.750 x 0.188	273.05	4.78	4.78	31.6	0.310	4030	57.1	36.3	266	94.9	344	72400	530	0.858
HSS 10.000 x 0.625	254	15.88	15.88	93.2	0.914	11900	16.0	84.6	666	84.3	902	169000	1330	0.798
HSS 10.000 x 0.500	254	12.70	12.70	75.6	0.741	9630	20.0	70.3	554	85.4	740	141000	1110	0.798
HSS 10.000 x 0.375	254	9.53	9.53	57.4	0.563	7320	26.7	54.8	431	86.5	570	109000	858	0.798
HSS 10.000 x 0.313	254	7.95	7.95	48.2	0.473	6150	31.9	46.6	367	87.0	481	93100	733	0.798
HSS 10.000 x 0.250	254	6.35	6.35	38.8	0.381	4940	40.0	37.9	298	87.6	390	75800	597	0.798
HSS 10.000 x 0.188	254	4.78	4.78	29.3	0.287	3740	53.1	29.1	229	88.2	297	58100	457	0.798
HSS 9.625 x 0.625	244.475	15.88	15.88	89.5	0.878	11400	15.4	74.9	613	81.1	831	150000	1230	0.768
HSS 9.625 x 0.500	244.475	12.70	12.70	72.6	0.712	9250	19.3	62.3	510	82.1	683	125000	1020	0.768
HSS 9.625 x 0.375	244.475	9.53	9.53	55.2	0.541	7030	25.7	48.6	398	83.1	526	97200	795	0.768
HSS 9.625 x 0.313	244.475	7.95	7.95	46.4	0.455	5910	30.8	41.4	339	83.7	445	82700	677	0.768
HSS 9.625 x 0.250	244.475	6.35	6.35	37.3	0.366	4750	38.5	33.7	276	84.2	360	67400	551	0.768
HSS 8.625 x 0.625	219.075	15.88	15.88	79.6	0.781	10100	13.8	52.6	480	72.2	657	105000	959	0.688
HSS 8.625 x 0.500	219.075	12.70	12.70	64.6	0.634	8230	17.3	44.0	402	73.1	542	88000	803	0.688
HSS 8.625 x 0.375	219.075	9.53	9.53	49.2	0.483	6270	23.0	34.5	315	74.2	419	69000	630	0.688
HSS 8.625 x 0.322	219.075	8.18	8.18	42.5	0.417	5420	26.8	30.2	276	74.6	364	60300	550	0.688
HSS 8.625 x 0.313	219.075	7.95	7.95	41.4	0.406	5270	27.6	29.4	268	74.7	355	58800	537	0.688
HSS 8.625 x 0.250	219.075	6.35	6.35	33.3	0.327	4240	34.5	24.0	219	75.2	287	48100	439	0.688
HSS 8.625 x 0.188	219.075	4.78	4.78	25.2	0.247	3220	45.8	18.5	169	75.8	220	36900	337	0.688
HSS 7.500 x 0.625	190.5	15.88	15.88	68.4	0.671	8710	12.0	33.5	352	62.0	486	66900	702	0.598
HSS 7.500 x 0.500	190.5	12.70	12.70	55.7	0.546	7090	15.0	28.2	296	63.1	402	56400	592	0.598
HSS 7.500 x 0.375	190.5	9.53	9.53	42.5	0.417	5420	20.0	22.2	233	64.0	312	44500	467	0.598
HSS 7.500 x 0.313	190.5	7.95	7.95	35.8	0.351	4560	24.0	19.0	199	64.5	265	38100	400	0.598
HSS 7.500 x 0.250	190.5	6.35	6.35	28.8	0.282	3670	30.0	15.6	164	65.2	215	31200	328	0.598

Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Mass	Dead Load	Area, A	D/t	I	S	r	Z	Torsion		Surface Area
												J	C	
HSS 7.250 x 0.625	184.15	15.88	15.88	65.9	0.646	8390	11.6	30.0	326	59.8	451	59900	651	0.579
HSS 7.250 x 0.500	184.15	12.70	12.70	53.7	0.527	6840	14.5	25.3	275	60.8	374	50500	548	0.579
HSS 7.250 x 0.375	184.15	9.53	9.53	41.0	0.402	5230	19.3	20.0	217	61.8	291	40000	434	0.579
HSS 7.250 x 0.313	184.15	7.95	7.95	34.5	0.338	4400	23.2	17.1	186	62.3	247	34200	371	0.579
HSS 7.250 x 0.250	184.15	6.35	6.35	27.8	0.273	3550	29.0	14.0	152	62.8	201	28100	305	0.579
HSS 7.000 x 0.500	177.8	12.70	12.70	51.7	0.507	6590	14.0	22.6	254	58.6	347	45200	508	0.559
HSS 7.000 x 0.375	177.8	9.53	9.53	39.5	0.387	5040	18.7	17.9	201	59.6	270	35800	403	0.559
HSS 7.000 x 0.313	177.8	7.95	7.95	33.3	0.327	4240	22.4	15.3	172	60.1	230	30700	345	0.559
HSS 7.000 x 0.250	177.8	6.35	6.35	26.8	0.263	3420	28.0	12.6	142	60.7	187	25200	283	0.559
HSS 7.000 x 0.188	177.8	4.78	4.78	20.4	0.200	2600	37.2	9.73	109	61.2	143	19400	218	0.559
HSS 6.625 x 0.500	168.275	12.70	12.70	48.7	0.478	6210	13.3	18.9	225	55.2	308	37800	449	0.529
HSS 6.625 x 0.375	168.275	9.53	9.53	37.3	0.366	4750	17.7	15.0	178	56.2	240	30000	357	0.529
HSS 6.625 x 0.313	168.275	7.95	7.95	31.4	0.308	4000	21.2	12.9	153	56.8	205	25800	307	0.529
HSS 6.625 x 0.280	168.275	7.11	7.11	28.3	0.278	3600	23.7	11.7	139	57.0	185	23400	278	0.529
HSS 6.625 x 0.250	168.275	6.35	6.35	25.4	0.249	3230	26.5	10.6	126	57.3	167	21200	252	0.529
HSS 6.625 x 0.188	168.275	4.78	4.78	19.3	0.189	2460	35.2	8.21	97.6	57.8	128	16400	195	0.529
HSS 6.000 x 0.500	152.4	12.70	12.70	43.8	0.430	5570	12.0	13.7	180	49.6	249	27400	360	0.479
HSS 6.000 x 0.375	152.4	9.53	9.53	33.6	0.330	4280	16.0	11.0	144	50.7	195	21900	287	0.479
HSS 6.000 x 0.313	152.4	7.95	7.95	28.3	0.278	3610	19.2	9.44	124	51.1	166	18900	248	0.479
HSS 6.000 x 0.250	152.4	6.35	6.35	22.9	0.225	2910	24.0	7.78	102	51.7	136	15600	205	0.479
HSS 6.000 x 0.188	152.4	4.78	4.78	17.4	0.171	2220	31.9	6.04	79	52.2	104	12100	159	0.479
HSS 6.000 x 0.125	152.4	3.18	3.18	11.7	0.115	1490	47.9	4.15	54.5	52.8	70.8	8290	109	0.479
HSS 5.563 x 0.500	141.30	12.70	12.70	40.3	0.395	5130	11.1	10.7	151	45.7	211	21400	303	0.444
HSS 5.563 x 0.375	141.30	9.53	9.53	31.0	0.304	3950	14.8	8.61	122	46.7	166	17200	243	0.444
HSS 5.563 x 0.250	141.30	6.35	6.35	21.1	0.207	2690	22.3	6.14	86.9	47.8	116	12300	174	0.444
HSS 5.563 x 0.188	141.30	4.78	4.78	16.1	0.158	2050	29.6	4.78	67.7	48.3	89.1	9560	135	0.444
HSS 5.000 x 0.500	127	12.70	12.70	35.8	0.351	4560	10.0	7.54	119	40.7	167	15100	238	0.399
HSS 5.000 x 0.375	127	9.53	9.53	27.6	0.271	3520	13.3	6.11	96.2	41.7	132	12200	192	0.399
HSS 5.000 x 0.313	127	7.95	7.95	23.3	0.229	2970	16.0	5.29	83.3	42.2	113	10600	167	0.399
HSS 5.000 x 0.250	127	6.35	6.35	18.9	0.185	2410	20.0	4.39	69.1	42.7	92.5	8780	138	0.399
HSS 5.000 x 0.188	127	4.78	4.78	14.4	0.141	1840	26.6	3.43	54.0	43.2	71.4	6860	108	0.399
HSS 5.000 x 0.125	127	3.18	3.18	9.70	0.0951	1240	39.9	2.37	37.3	43.7	48.8	4740	74.6	0.399

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												J	C	
HSS 4.500 x 0.375	114.3	9.53	9.53	24.6	0.241	3140	12.0	4.34	75.9	37.2	105	8680	152	0.359
HSS 4.500 x 0.337	114.3	8.56	8.56	22.3	0.219	2840	13.4	4.00	70.0	37.5	95.9	8000	140	0.359
HSS 4.500 x 0.250	114.3	6.35	6.35	16.9	0.166	2150	18.0	3.15	55.1	38.3	74.1	6300	110	0.359
HSS 4.500 x 0.188	114.3	4.78	4.78	12.9	0.127	1640	23.9	2.47	43.2	38.8	57.4	4940	86.4	0.359
HSS 4.000 x 0.250	101.6	6.35	6.35	14.9	0.146	1900	16.0	2.16	42.5	33.7	57.7	4330	85.2	0.319
HSS 4.000 x 0.188	101.6	4.78	4.78	11.4	0.112	1450	21.3	1.71	33.7	34.3	44.8	3410	67.1	0.319
HSS 4.000 x 0.125	101.6	3.18	3.18	7.71	0.0756	983	31.9	1.19	23.4	34.8	30.8	2380	46.9	0.319
HSS 3.500 x 0.300	88.9	7.62	7.62	15.3	0.150	1950	11.7	1.62	36.4	28.8	50.5	3240	72.9	0.279
HSS 3.500 x 0.250	88.9	6.35	6.35	12.9	0.127	1650	14.0	1.41	31.7	29.2	43.4	2820	63.4	0.279
HSS 3.500 x 0.188	88.9	4.78	4.78	9.91	0.0972	1260	18.6	1.12	25.2	29.8	33.9	2240	50.4	0.279
HSS 3.500 x 0.125	88.9	3.18	3.18	6.71	0.0658	856	28.0	0.788	17.7	30.3	23.4	1570	35.3	0.279
HSS 3.000 x 0.250	76.2	6.35	6.35	10.9	0.107	1390	12.0	0.857	22.5	24.8	31.1	1710	44.9	0.239
HSS 3.000 x 0.188	76.2	4.78	4.78	8.41	0.0825	1070	15.9	0.687	18.0	25.3	24.4	1370	36.0	0.239
HSS 3.000 x 0.125	76.2	3.18	3.18	5.72	0.0561	729	24.0	0.487	12.8	25.8	17.0	973	25.5	0.239
HSS 2.875 x 0.250	73.025	6.35	6.35	10.4	0.102	1330	11.5	0.746	20.4	23.7	28.3	1490	40.8	0.229
HSS 2.875 x 0.188	73.025	4.78	4.78	8.04	0.0788	1020	15.3	0.600	16.4	24.3	22.3	1200	32.9	0.229
HSS 2.875 x 0.125	73.025	3.18	3.18	5.47	0.0536	698	23.0	0.426	11.7	24.7	15.5	852	23.3	0.229
HSS 2.500 x 0.250	63.5	6.35	6.35	8.95	0.0878	1140	10.0	0.471	14.8	20.3	20.8	942	29.7	0.199
HSS 2.500 x 0.188	63.5	4.78	4.78	6.92	0.0679	882	13.3	0.383	12.1	20.8	16.5	765	24.1	0.199
HSS 2.500 x 0.125	63.5	3.18	3.18	4.72	0.0463	603	20.0	0.275	8.66	21.4	11.6	549	17.3	0.199
HSS 2.375 x 0.250	60.325	6.35	6.35	8.45	0.0829	1080	9.5	0.398	13.2	19.2	18.6	795	26.4	0.190
HSS 2.375 x 0.188	60.325	4.78	4.78	6.54	0.0641	834	12.6	0.324	10.7	19.7	14.8	648	21.5	0.190
HSS 2.375 x 0.125	60.325	3.18	3.18	4.47	0.0438	571	19.0	0.234	7.76	20.2	10.4	467	15.5	0.190
HSS 2.250 x 0.250	57.15	6.35	6.35	7.96	0.0781	1010	9.0	0.332	11.6	18.1	16.5	664	23.2	0.180
HSS 2.250 x 0.188	57.15	4.78	4.78	6.17	0.0605	786	12.0	0.272	9.52	18.6	13.1	543	19.0	0.180
HSS 2.250 x 0.125	57.15	3.18	3.18	4.23	0.0415	539	18.0	0.197	6.89	19.1	9.27	393	13.8	0.180
HSS 1.900 x 0.188	48.26	4.78	4.78	5.12	0.0502	653	10.1	0.156	6.46	15.5	9.07	312	12.9	0.152
HSS 1.900 x 0.125	48.26	3.16	3.16	3.52	0.0345	448	15.3	0.114	4.72	16.0	6.44	229	9.49	0.152
HSS 1.660 x 0.125	42.164	3.18	3.18	3.05	0.0299	389	13.3	0.0745	3.53	13.8	4.84	149	7.07	0.132