

### Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	Torsion		Surface Area
											J	C	
	(in.)	(in.)	(in.)	(lb/ft)	(in. <sup>2</sup> )		(in. <sup>4</sup> )	(in. <sup>3</sup> )	(in.)	(in. <sup>3</sup> )	(in. <sup>4</sup> )	(in. <sup>3</sup> )	(ft <sup>2</sup> /ft)
HSS 28.000 x 1.000	28	1.000	1.000	288.63	84.8	28.0	7740	553	9.55	729	15500	1110	7.33
HSS 28.000 x 0.875	28	0.875	0.875	253.72	74.6	32.0	6860	490	9.59	644	13700	979	7.33
HSS 28.000 x 0.750	28	0.750	0.750	218.48	64.2	37.3	5960	426	9.64	557	11900	850	7.33
HSS 28.000 x 0.625	28	0.625	0.625	182.90	53.8	44.8	5040	360	9.68	468	10100	721	7.33
HSS 28.000 x 0.500	28	0.500	0.500	146.99	43.2	56.0	4080	291	9.72	378	8160	583	7.33
HSS 24.000 x 1.000	24	1.000	1.000	245.87	72.3	24.0	4790	399	8.14	529	9580	798	6.28
HSS 24.000 x 0.875	24	0.875	0.875	216.31	63.6	27.4	4260	355	8.18	468	8520	710	6.28
HSS 24.000 x 0.750	24	0.750	0.750	186.41	54.8	32.0	3710	309	8.23	406	7420	618	6.28
HSS 24.000 x 0.625	24	0.625	0.625	156.18	45.9	38.4	3140	262	8.27	342	6280	523	6.28
HSS 24.000 x 0.500	24	0.500	0.500	125.61	36.9	48.0	2550	213	8.31	276	5100	425	6.28
HSS 24.000 x 0.375	24	0.375	0.375	94.71	27.8	64.0	1940	162	8.35	209	3880	323	6.28
HSS 20.000 x 1.000	20	1.000	1.000	203.11	59.7	20.0	2700	270	6.73	361	5400	540	5.24
HSS 20.000 x 0.875	20	0.875	0.875	178.89	52.6	22.9	2410	241	6.77	320	4820	482	5.24
HSS 20.000 x 0.750	20	0.750	0.750	154.34	45.4	26.7	2100	210	6.80	278	4200	420	5.24
HSS 20.000 x 0.625	20	0.625	0.625	129.45	38.0	32.0	1790	179	6.86	235	3580	358	5.24
HSS 20.000 x 0.500	20	0.500	0.500	104.23	30.6	40.0	1460	146	6.91	190	2920	292	5.24
HSS 20.000 x 0.375	20	0.375	0.375	78.67	23.1	53.3	1110	111	6.93	144	2220	222	5.24
HSS 20.000 x 0.313	20	0.313	0.313	65.77	19.4	63.9	938	93.8	6.95	121	1880	188	5.24
HSS 20.000 x 0.250	20	0.250	0.250	52.78	15.5	80.0	756	75.6	6.98	97.5	1510	151	5.24
HSS 18.000 x 1.000	18	1.000	1.000	181.73	53.4	18.0	1940	216	6.03	289	3880	431	4.71
HSS 18.000 x 0.875	18	0.875	0.875	160.19	47.1	20.6	1730	192	6.06	257	3460	384	4.71
HSS 18.000 x 0.750	18	0.750	0.750	138.30	40.6	24.0	1510	168	6.10	223	3020	336	4.71
HSS 18.000 x 0.625	18	0.625	0.625	116.09	34.1	28.8	1290	143	6.15	189	2580	287	4.71
HSS 18.000 x 0.500	18	0.500	0.500	93.54	27.5	36.0	1053	117	6.19	153	2110	234	4.71
HSS 18.000 x 0.375	18	0.375	0.375	70.66	20.8	48.0	807	89.7	6.23	117	1610	179	4.71
HSS 18.000 x 0.313	18	0.313	0.313	59.09	17.4	57.5	680	75.6	6.25	97.9	1360	151	4.71
HSS 18.000 x 0.250	18	0.250	0.250	47.44	13.9	72.0	549	61.0	6.28	78.8	1100	122	4.71

### Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	Torsion		Surface Area
											J	C	
	(in.)	(in.)	(in.)	(lb/ft)	(in. <sup>2</sup> )		(in. <sup>4</sup> )	(in. <sup>3</sup> )	(in.)	(in. <sup>3</sup> )	(in. <sup>4</sup> )	(in. <sup>3</sup> )	(ft <sup>2</sup> /ft)
HSS 16.000 x 1.000	16	1.000	1.000	160.35	47.1	16.0	1330	166	5.31	225	2660	333	4.19
HSS 16.000 x 0.875	16	0.875	0.875	141.48	41.6	18.3	1190	149	5.35	200	2380	298	4.19
HSS 16.000 x 0.750	16	0.750	0.750	122.27	35.9	21.3	1050	131	5.41	175	2100	263	4.19
HSS 16.000 x 0.625	16	0.625	0.625	102.73	30.2	25.6	894	112	5.44	148	1790	224	4.19
HSS 16.000 x 0.500	16	0.500	0.500	82.85	24.3	32.0	732	91.5	5.49	120	1460	183	4.19
HSS 16.000 x 0.375	16	0.375	0.375	62.64	18.4	42.7	562	70.3	5.53	91.6	1120	140	4.19
HSS 16.000 x 0.313	16	0.313	0.313	52.41	15.4	51.1	475	59.4	5.55	77.0	950	119	4.19
HSS 16.000 x 0.250	16	0.250	0.250	42.09	12.4	64.0	384	48.0	5.56	62.0	768	96.0	4.19
HSS 16.000 x 0.188	16	0.188	0.188	31.69	9.3	85.1	292	36.5	5.60	47.0	584	73.0	4.19
HSS 14.000 x 0.875	14	0.875	0.875	122.77	36.1	16.0	780	111	4.65	151	1560	223	3.67
HSS 14.000 x 0.750	14	0.750	0.750	106.23	31.2	18.7	687	98	4.69	132	1370	196	3.67
HSS 14.000 x 0.625	14	0.625	0.625	89.36	26.3	22.4	589	84.1	4.73	112	1180	169	3.67
HSS 14.000 x 0.500	14	0.500	0.500	72.16	21.2	28.0	484	69.1	4.78	91.2	968	138	3.67
HSS 14.000 x 0.375	14	0.437	0.437	63.36	18.6	32.0	429	61.3	4.80	80.4	858	123	3.67
HSS 14.000 x 0.313	14	0.375	0.375	54.62	16.1	37.3	373	53.3	4.81	69.6	746	107	3.67
HSS 14.000 x 0.250	14	0.250	0.250	36.75	10.8	56.0	255	36.4	4.86	47.3	510	72.9	3.67
HSS 14.000 x 0.188	14	0.188	0.188	27.69	8.2	74.5	195	27.9	4.88	35.9	390	55.7	3.67
HSS 13.375 x 0.625	13.375	0.625	0.625	85.19	25.0	21.4	510	76.3	4.52	102	1020	153	3.50
HSS 13.375 x 0.500	13.375	0.500	0.500	68.82	20.2	26.8	420	62.8	4.56	82.9	840	126	3.50
HSS 13.375 x 0.375	13.375	0.375	0.375	52.11	15.3	35.7	324	48.4	4.60	63.4	648	96.9	3.50
HSS 13.375 x 0.313	13.375	0.313	0.313	43.64	12.84	42.7	274	41.0	4.62	53.4	548	81.9	3.50
HSS 13.375 x 0.250	13.375	0.250	0.250	35.08	10.31	53.5	222	33.2	4.64	43.1	444	66.4	3.50
HSS 12.750 x 0.750	12.75	0.750	0.750	96.21	28.3	17.0	511	80.2	4.25	108	1020	160	3.34
HSS 12.750 x 0.625	12.75	0.625	0.625	81.01	23.8	20.4	439	68.9	4.29	92.0	878	138	3.34
HSS 12.750 x 0.500	12.75	0.500	0.500	65.48	19.2	25.5	362	56.8	4.34	75.1	724	114	3.34
HSS 12.750 x 0.375	12.75	0.375	0.375	49.61	14.6	34.0	279	43.8	4.37	57.4	558	87.5	3.34
HSS 12.750 x 0.313	12.75	0.313	0.313	41.55	12.23	40.7	237	37.2	4.40	48.4	474	74.4	3.34
HSS 12.750 x 0.250	12.75	0.250	0.250	33.41	9.82	51.0	192	30.1	4.42	39.1	384	60.2	3.34

### Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	Torsion		Surface Area
											J	C	
	(in.)	(in.)	(in.)	(lb/ft)	(in. <sup>2</sup> )	(in. <sup>4</sup> )	(in. <sup>3</sup> )	(in.)	(in. <sup>3</sup> )	(in. <sup>4</sup> )	(in. <sup>3</sup> )	(ft <sup>2</sup> /ft)	
HSS 12.000 x 0.625	12	0.625	0.625	76.00	22.33	19.2	362	60.3	4.03	81.0	724	121	3.14
HSS 12.000 x 0.500	12	0.500	0.500	61.47	18.06	24.0	299	49.8	4.07	66.2	598	99.7	3.14
HSS 12.000 x 0.375	12	0.375	0.375	46.60	13.70	32.0	232	38.7	4.12	50.7	464	77.3	3.14
HSS 12.000 x 0.313	12	0.313	0.313	39.04	11.49	38.3	196	32.7	4.13	42.8	392	65.3	3.14
HSS 12.000 x 0.250	12	0.250	0.250	31.40	9.23	48.0	159	26.5	4.15	34.5	318	53.0	3.14
HSS 11.750 x 0.625	11.75	0.625	0.625	74.33	21.8	18.8	339	57.7	3.94	77.4	678	115	3.08
HSS 11.750 x 0.500	11.75	0.500	0.500	60.13	17.7	23.5	280	47.7	3.98	63.3	560	95.3	3.08
HSS 11.750 x 0.375	11.75	0.375	0.375	45.60	13.4	31.3	217	36.9	4.02	48.5	434	73.9	3.08
HSS 11.750 x 0.250	11.75	0.250	0.250	30.73	9.03	47.0	149	25.4	4.06	33.1	298	50.7	3.08
HSS 10.750 x 0.625	10.75	0.625	0.625	67.65	19.9	17.2	256	47.6	3.59	64.2	512	95.3	2.81
HSS 10.750 x 0.500	10.75	0.500	0.500	54.79	16.1	21.5	212	39.4	3.63	52.6	424	78.9	2.81
HSS 10.750 x 0.375	10.75	0.375	0.375	41.59	12.2	28.7	165	30.7	3.68	40.4	330	61.4	2.81
HSS 10.750 x 0.365	10.75	0.365	0.365	40.52	11.9	29.5	161	30.0	3.68	39.4	322	59.9	2.81
HSS 10.750 x 0.313	10.75	0.313	0.313	34.87	10.26	34.3	140	26.0	3.69	34.1	280	52.1	2.81
HSS 10.750 x 0.250	10.75	0.250	0.250	28.06	8.25	43.0	114	21.2	3.72	27.6	228	42.4	2.81
HSS 10.750 x 0.188	10.75	0.188	0.188	21.17	6.24	57.2	87.0	16.2	3.73	21.0	174	32.4	2.81
HSS 10.000 x 0.625	10	0.625	0.625	62.64	18.4	16.0	203	40.6	3.32	55.0	406	81.2	2.62
HSS 10.000 x 0.500	10	0.500	0.500	50.78	14.9	20.0	169	33.8	3.37	45.2	338	67.6	2.62
HSS 10.000 x 0.375	10	0.375	0.375	38.58	11.3	26.7	132	26.4	3.42	34.8	264	52.8	2.62
HSS 10.000 x 0.313	10	0.313	0.313	32.36	9.53	31.9	112	22.4	3.43	29.4	224	44.8	2.62
HSS 10.000 x 0.250	10	0.250	0.250	26.06	7.66	40.0	91	18.2	3.45	23.8	182	36.4	2.62
HSS 10.000 x 0.188	10	0.188	0.188	19.67	5.80	53.2	69.8	14.0	3.47	18.1	140	28.0	2.62
HSS 9.625 x 0.625	9.625	0.625	0.625	60.13	17.7	15.4	180	37.4	3.19	50.7	360	74.8	2.52
HSS 9.625 x 0.500	9.625	0.500	0.500	48.77	14.3	19.3	150	31.2	3.24	41.7	300	62.3	2.52
HSS 9.625 x 0.375	9.625	0.375	0.375	37.08	10.9	25.7	117	24.3	3.28	32.1	234	48.6	2.52
HSS 9.625 x 0.313	9.625	0.313	0.313	31.11	9.16	30.8	99.4	20.7	3.29	27.2	199	41.4	2.52
HSS 9.625 x 0.250	9.625	0.250	0.250	25.06	7.36	38.5	81.0	16.8	3.32	22.0	162	33.7	2.52

### Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	Torsion		Surface Area
											J	C	
	(in.)	(in.)	(in.)	(lb/ft)	(in. <sup>2</sup> )		(in. <sup>4</sup> )	(in. <sup>3</sup> )	(in.)	(in. <sup>3</sup> )	(in. <sup>4</sup> )	(in. <sup>3</sup> )	(ft <sup>2</sup> /ft)
HSS 8.625 x 0.625	8.625	0.625	0.625	53.45	15.7	13.8	126	29.2	2.83	40.1	252	58.4	2.26
HSS 8.625 x 0.500	8.625	0.500	0.500	43.43	12.8	17.3	106	24.6	2.88	33.0	212	49.2	2.26
HSS 8.625 x 0.375	8.625	0.375	0.375	33.07	9.72	23.0	82.9	19.2	2.92	25.5	166	38.5	2.26
HSS 8.625 x 0.322	8.625	0.322	0.322	28.58	8.40	26.8	72.5	16.8	2.94	22.2	145	33.6	2.26
HSS 8.625 x 0.313	8.625	0.313	0.313	27.77	8.17	27.6	70.7	16.4	2.94	21.6	141	32.7	2.26
HSS 8.625 x 0.250	8.625	0.250	0.250	22.38	6.58	34.5	57.7	13.4	2.96	17.5	115	26.7	2.26
HSS 8.625 x 0.188	8.625	0.188	0.188	16.91	4.98	45.9	44.4	10.3	2.99	13.4	88.8	20.6	2.26
HSS 7.500 x 0.625	7.5	0.625	0.625	45.93	13.50	12.0	80.4	21.4	2.44	29.6	161	42.9	1.96
HSS 7.500 x 0.500	7.5	0.500	0.500	37.42	11.00	15.0	67.7	18.1	2.48	24.5	135	36.0	1.96
HSS 7.500 x 0.375	7.5	0.375	0.375	28.56	8.39	20.0	53.4	14.2	2.52	19.1	107	28.5	1.96
HSS 7.500 x 0.313	7.5	0.313	0.313	24.01	7.07	24.0	45.7	12.2	2.54	16.2	91.0	24.3	1.96
HSS 7.500 x 0.250	7.5	0.250	0.250	19.38	5.69	30.0	37.5	10.0	2.57	13.1	75.0	20.0	1.96
HSS 7.250 x 0.625	7.25	0.625	0.625	44.26	13.01	11.6	72.0	19.9	2.35	27.5	144	39.7	1.90
HSS 7.250 x 0.500	7.25	0.500	0.500	36.08	10.60	14.5	60.7	16.7	2.39	22.8	121	33.4	1.90
HSS 7.250 x 0.375	7.25	0.375	0.375	27.56	8.10	19.3	48.0	13.2	2.43	17.7	96.0	26.5	1.90
HSS 7.250 x 0.313	7.25	0.313	0.313	23.18	6.82	23.2	41.1	11.3	2.45	15.1	82.0	22.6	1.90
HSS 7.250 x 0.250	7.25	0.250	0.250	18.71	5.50	29.0	33.7	9.30	2.48	12.3	67.0	18.5	1.90
HSS 7.000 x 0.500	7	0.500	0.500	34.74	10.21	14.0	54.2	15.5	2.30	21.2	108	30.9	1.83
HSS 7.000 x 0.375	7	0.375	0.375	26.56	7.80	18.7	43.0	12.3	2.35	16.5	86.0	24.6	1.83
HSS 7.000 x 0.313	7	0.313	0.313	22.34	6.58	22.4	36.8	10.5	2.36	14.0	73.6	21.0	1.83
HSS 7.000 x 0.250	7	0.250	0.250	18.04	5.30	28.0	30.2	8.63	2.39	11.4	60.4	17.3	1.83
HSS 7.000 x 0.188	7	0.188	0.188	13.65	4.02	37.2	23.4	6.69	2.41	8.73	46.8	13.4	1.83
HSS 6.625 x 0.500	6.625	0.500	0.500	32.74	9.62	13.3	45.4	13.7	2.17	18.8	90.8	27.4	1.73
HSS 6.625 x 0.375	6.625	0.375	0.375	25.06	7.36	17.7	36.1	10.9	2.21	14.7	72.2	21.8	1.73
HSS 6.625 x 0.313	6.625	0.313	0.313	21.09	6.21	21.2	31.0	9.36	2.23	12.5	62.0	18.7	1.73
HSS 6.625 x 0.280	6.625	0.280	0.280	18.99	5.58	23.7	28.1	8.48	2.24	11.3	56.2	17.0	1.73
HSS 6.625 x 0.250	6.625	0.250	0.250	17.04	5.01	26.5	25.5	7.70	2.26	10.2	51.0	15.4	1.73
HSS 6.625 x 0.188	6.625	0.188	0.188	12.90	3.80	35.2	19.7	5.95	2.28	7.79	39.4	11.9	1.73

### Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	Torsion		Surface Area
											J	C	
	(in.)	(in.)	(in.)	(lb/ft)	(in. <sup>2</sup> )		(in. <sup>4</sup> )	(in. <sup>3</sup> )	(in.)	(in. <sup>3</sup> )	(in. <sup>4</sup> )	(in. <sup>3</sup> )	(ft <sup>2</sup> /ft)
HSS 6.000 x 0.500	6	0.500	0.500	29.40	8.64	12.0	32.9	11.0	1.95	15.2	65.8	21.9	1.57
HSS 6.000 x 0.375	6	0.375	0.375	22.55	6.63	16.0	26.3	8.77	1.99	11.9	52.6	17.5	1.57
HSS 6.000 x 0.313	6	0.313	0.313	19.00	5.59	19.2	22.7	7.57	2.02	10.1	45.4	15.1	1.57
HSS 6.000 x 0.250	6	0.250	0.250	15.37	4.52	24.0	18.7	6.23	2.03	8.27	37.4	12.5	1.57
HSS 6.000 x 0.188	6	0.188	0.188	11.65	3.43	31.9	14.5	4.83	2.06	6.35	29.0	9.67	1.57
HSS 6.000 x 0.125	6	0.125	0.125	7.85	2.31	48.0	10.0	3.33	2.08	4.32	20.0	6.67	1.57
HSS 5.563 x 0.500	5.563	0.500	0.500	27.06	7.95	11.1	25.7	9.24	1.80	12.9	51.4	18.5	1.46
HSS 5.563 x 0.375	5.563	0.375	0.375	20.80	6.11	14.8	20.7	7.44	1.84	10.1	41.4	14.9	1.46
HSS 5.563 x 0.250	5.563	0.250	0.250	14.20	4.17	22.3	14.8	5.32	1.88	7.06	29.6	10.6	1.46
HSS 5.563 x 0.188	5.563	0.188	0.188	10.77	3.17	29.6	11.5	4.13	1.90	5.43	23.0	8.27	1.46
HSS 5.000 x 0.500	5	0.500	0.500	24.05	7.07	10.0	18.1	7.24	1.60	10.2	36.2	14.5	1.31
HSS 5.000 x 0.375	5	0.375	0.375	18.54	5.45	13.3	14.7	5.88	1.64	8.04	29.4	11.8	1.31
HSS 5.000 x 0.313	5	0.313	0.313	15.66	4.61	16.0	12.7	5.08	1.66	6.89	25.4	10.2	1.31
HSS 5.000 x 0.250	5	0.250	0.250	12.69	3.73	20.0	10.55	4.22	1.68	5.65	21.1	8.44	1.31
HSS 5.000 x 0.188	5	0.188	0.188	9.65	2.84	26.6	8.24	3.30	1.70	4.36	16.5	6.60	1.31
HSS 5.000 x 0.125	5	0.125	0.125	6.51	1.91	40.0	5.69	2.28	1.73	2.97	11.4	4.56	1.31
HSS 4.500 x 0.375	4.5	0.375	0.375	16.54	4.86	12.0	10.42	4.63	1.46	6.40	20.8	9.24	1.18
HSS 4.500 x 0.313	4.5	0.313	0.313	13.99	4.12	14.4	9.07	4.03	1.48	5.50	18.1	8.04	1.18
HSS 4.500 x 0.250	4.5	0.250	0.250	11.36	3.34	18.0	7.56	3.36	1.50	4.52	15.1	6.71	1.18
HSS 4.500 x 0.188	4.5	0.188	0.188	8.64	2.55	23.9	5.93	2.64	1.52	3.50	11.9	5.29	1.18
HSS 4.000 x 0.250	4	0.250	0.250	10.02	2.95	16.0	5.20	2.60	1.33	3.52	10.4	5.20	1.05
HSS 4.000 x 0.188	4	0.188	0.188	7.64	2.25	21.3	4.10	2.05	1.35	2.73	8.20	4.10	1.05
HSS 4.000 x 0.125	4	0.125	0.125	5.18	1.52	32.0	2.86	1.43	1.37	1.88	5.72	2.86	1.05
HSS 3.500 x 0.300	3.5	0.300	0.300	10.26	3.02	11.7	3.89	2.22	1.13	3.08	7.78	4.45	0.916
HSS 3.500 x 0.250	3.5	0.250	0.250	8.69	2.55	14.0	3.39	1.94	1.15	2.65	6.78	3.87	0.916
HSS 3.500 x 0.188	3.5	0.188	0.188	6.64	1.96	18.6	2.69	1.54	1.17	2.06	5.38	3.07	0.916
HSS 3.500 x 0.125	3.5	0.125	0.125	4.51	1.33	28.0	1.89	1.08	1.19	1.42	3.78	2.16	0.916

### Atlas HSS Section Properties (Round) - CSA G40

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	Torsion		Surface Area
											J	C	
	(in.)	(in.)	(in.)	(lb/ft)	(in. <sup>2</sup> )	(in. <sup>4</sup> )	(in. <sup>3</sup> )	(in.)	(in. <sup>3</sup> )	(in. <sup>4</sup> )	(in. <sup>3</sup> )	(ft <sup>2</sup> /ft)	
HSS 3.000 x 0.250	3	0.250	0.250	7.35	2.16	12.0	2.06	1.37	0.977	1.90	4.12	2.75	0.785
HSS 3.000 x 0.188	3	0.188	0.188	5.64	1.66	16.0	1.65	1.10	1.00	1.49	3.30	2.20	0.785
HSS 3.000 x 0.125	3	0.125	0.125	3.84	1.13	24.0	1.17	0.780	1.02	1.03	2.34	1.56	0.785
HSS 2.875 x 0.250	2.875	0.250	0.250	7.02	2.06	11.5	1.79	1.25	0.932	1.73	3.58	2.49	0.753
HSS 2.875 x 0.188	2.875	0.188	0.188	5.39	1.59	15.3	1.44	1.00	0.952	1.36	2.88	2.00	0.753
HSS 2.875 x 0.125	2.875	0.125	0.125	3.67	1.08	23.0	1.02	0.710	0.972	0.946	2.04	1.42	0.753
HSS 2.500 x 0.250	2.5	0.250	0.250	6.01	1.77	10.0	1.13	0.904	0.799	1.27	2.26	1.81	0.654
HSS 2.500 x 0.188	2.5	0.188	0.188	4.64	1.37	13.3	0.918	0.734	0.819	1.01	1.84	1.47	0.654
HSS 2.500 x 0.125	2.5	0.125	0.125	3.17	0.933	20.0	0.659	0.527	0.840	0.706	1.32	1.06	0.654
HSS 2.375 x 0.250	2.375	0.250	0.250	5.68	1.67	9.5	0.955	0.804	0.756	1.13	1.91	1.61	0.622
HSS 2.375 x 0.188	2.375	0.188	0.188	4.38	1.29	12.6	0.778	0.655	0.777	0.901	1.56	1.31	0.622
HSS 2.375 x 0.125	2.375	0.125	0.125	3.01	0.884	19.0	0.561	0.472	0.797	0.633	1.12	0.943	0.622
HSS 2.250 x 0.250	2.25	0.250	0.250	5.35	1.57	9.0	0.798	0.709	0.713	1.01	1.60	1.42	0.589
HSS 2.250 x 0.188	2.25	0.188	0.188	4.13	1.22	12.0	0.653	0.580	0.732	0.802	1.31	1.16	0.589
HSS 2.250 x 0.125	2.25	0.125	0.125	2.84	0.834	18.0	0.473	0.420	0.753	0.565	0.946	0.841	0.589
HSS 1.900 x 0.188	1.9	0.188	0.188	3.43	1.011	10.1	0.375	0.395	0.609	0.553	0.750	0.789	0.497
HSS 1.900 x 0.125	1.9	0.125	0.125	2.37	0.697	15.2	0.276	0.291	0.629	0.394	0.552	0.581	0.497
HSS 1.660 x 0.125	1.66	0.125	0.125	2.05	0.603	13.3	0.179	0.216	0.545	0.295	0.358	0.431	0.435