

Atlas HSS Section Properties (Round) - ASTM A500

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	J	C	Surface Area
	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 20 x 0.625	20	0.625	0.581	129.45	35.4	34.4	1670	167	6.87	219	3340	334	5.24
HSS 20 x 0.500	20	0.500	0.465	104.23	28.5	43.0	1360	136	6.91	177	2720	272	5.24
HSS 20 x 0.375	20	0.375	0.349	78.67	21.5	57.3	1040	104	6.96	135	2080	208	5.24
HSS 20 x 0.250	20	0.250	0.233	52.78	14.5	85.8	707	70.7	6.98	91.0	1410	141	5.24
HSS 18 x 0.625	18	0.625	0.581	116.09	31.8	31.0	1210	134	6.17	176	2420	269	4.71
HSS 18 x 0.500	18	0.500	0.465	93.54	25.6	38.7	985	109	6.20	143	1970	219	4.71
HSS 18 x 0.375	18	0.375	0.349	70.66	19.4	51.6	754	83.8	6.23	109	1510	168	4.71
HSS 18 x 0.250	18	0.250	0.233	47.44	13.0	77.3	513	57.0	6.28	73.6	1030	114	4.71
HSS 16 x 0.625	16	0.625	0.581	102.73	28.1	27.5	838	105	5.46	138	1680	210	4.19
HSS 16 x 0.500	16	0.500	0.465	82.85	22.7	34.4	685	85.6	5.49	112	1370	171	4.19
HSS 16 x 0.375	16	0.375	0.349	62.64	17.2	45.8	526	65.8	5.53	85.5	1050	131	4.19
HSS 16 x 0.250	16	0.250	0.233	42.09	11.5	68.7	359	44.9	5.59	57.9	718	89.8	4.19
HSS 14 x 0.625	14	0.625	0.581	89.36	24.5	24.1	552	78.9	4.75	105	1100	157	3.67
HSS 14 x 0.500	14	0.500	0.465	72.16	19.8	30.1	453	64.7	4.78	85.2	906	129	3.67
HSS 14 x 0.437	14	0.437	0.406	63.36	17.3	34.5	401	57.3	4.81	75.0	802	115	3.67
HSS 14 x 0.375	14	0.375	0.349	54.62	15.0	40.1	349	49.9	4.82	65.1	698	100	3.67
HSS 14 x 0.250	14	0.250	0.233	36.75	10.1	60.1	239	34.1	4.86	44.2	478	68.3	3.67
HSS 13.375 x 0.625	13.375	0.625	0.581	85.19	23.4	23.0	479	71.6	4.52	95.2	958	143	3.50
HSS 13.375 x 0.500	13.375	0.500	0.465	68.82	18.9	28.8	393	58.8	4.56	77.5	786	118	3.50
HSS 13.375 x 0.375	13.375	0.375	0.349	52.11	14.3	38.3	303	45.3	4.60	59.2	606	90.6	3.50
HSS 13.375 x 0.250	13.375	0.250	0.233	35.08	9.62	57.4	208	31.1	4.65	40.2	416	62.2	3.50
HSS 12.75 x 0.625	12.75	0.625	0.581	81.01	22.2	21.9	412	64.6	4.31	86.1	824	129	3.34
HSS 12.75 x 0.500	12.75	0.500	0.465	65.48	17.9	27.4	339	53.2	4.35	70.2	678	106	3.34
HSS 12.75 x 0.406	12.75	0.406	0.378	53.58	14.7	33.7	281	44.1	4.37	57.9	562	88.2	3.34
HSS 12.75 x 0.393	12.75	0.393	0.365	51.91	14.2	34.9	273	42.8	4.38	56.0	546	85.6	3.34
HSS 12.75 x 0.375	12.75	0.375	0.349	49.61	13.6	36.5	262	41.1	4.39	53.7	524	82.2	3.34
HSS 12.75 x 0.250	12.75	0.250	0.233	33.41	9.16	54.7	180	28.2	4.43	36.5	360	56.5	3.34
HSS 12 x 0.625	12	0.625	0.581	76.00	20.84	20.7	341	56.8	4.05	75.8	682	113.7	3.14
HSS 12 x 0.500	12	0.500	0.465	61.47	16.85	25.8	281	46.8	4.08	61.9	562	93.7	3.14

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	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 12 x 0.375	12	0.375	0.349	46.60	12.77	34.4	217	36.2	4.12	47.4	434	72.3	3.14
HSS 12 x 0.250	12	0.250	0.233	31.40	8.61	51.5	149	24.8	4.16	32.3	298	49.7	3.14
HSS 11.75 x 0.625	11.75	0.625	0.581	74.33	20.4	20.2	319	54.3	3.95	72.5	638	109	3.08
HSS 11.75 x 0.500	11.75	0.500	0.465	60.13	16.5	25.3	263	44.8	3.99	59.3	526	89.5	3.08
HSS 11.75 x 0.375	11.75	0.375	0.349	45.60	12.5	33.7	203	34.6	4.03	45.4	406	69.1	3.08
HSS 11.75 x 0.337	11.75	0.337	0.313	41.12	11.25	37.5	184	31.3	4.04	41.0	368	62.6	3.08
HSS 11.75 x 0.250	11.75	0.250	0.233	30.73	8.43	50.4	140	23.8	4.08	30.9	280	47.7	3.08
HSS 10.75 x 0.625	10.75	0.625	0.581	67.65	18.6	18.5	241	44.8	3.60	60.1	482	89.7	2.81
HSS 10.75 x 0.500	10.75	0.500	0.465	54.79	15.0	23.1	199	37.0	3.64	49.2	398	74.0	2.81
HSS 10.75 x 0.375	10.75	0.375	0.349	41.59	11.4	30.8	154	28.7	3.68	37.8	308	57.3	2.81
HSS 10.75 x 0.365	10.75	0.365	0.339	40.52	11.1	31.7	150	27.9	3.68	36.8	300	55.8	2.81
HSS 10.75 x 0.313	10.75	0.313	0.291	34.87	9.56	36.9	131	24.4	3.70	31.8	262	48.7	2.81
HSS 10.75 x 0.250	10.75	0.250	0.233	28.06	7.70	46.1	106	19.7	3.71	25.8	212	39.4	2.81
HSS 10.75 x 0.188	10.75	0.188	0.174	21.17	5.78	61.8	80.9	15.1	3.74	19.5	162	30.1	2.81
HSS 10 x 0.625	10	0.625	0.581	62.64	17.2	17.2	191	38.2	3.33	51.6	382	76.4	2.62
HSS 10 x 0.500	10	0.500	0.465	50.78	13.9	21.5	159	31.8	3.38	42.3	318	63.6	2.62
HSS 10 x 0.375	10	0.375	0.349	38.58	10.6	28.7	123	24.6	3.41	32.5	246	49.2	2.62
HSS 10 x 0.313	10	0.313	0.291	32.36	8.88	34.4	105	21.0	3.44	27.4	210	42.0	2.62
HSS 10 x 0.250	10	0.250	0.233	26.06	7.15	42.9	85	17.0	3.45	22.2	170	34.0	2.62
HSS 10 x 0.188	10	0.188	0.174	19.67	5.37	57.5	64.8	13.0	3.47	16.8	130	26.0	2.62
HSS 9.625 x 0.625	9.625	0.625	0.581	60.13	16.5	16.6	169	35.1	3.20	47.6	338	70.2	2.52
HSS 9.625 x 0.500	9.625	0.500	0.465	48.77	13.4	20.7	141	29.3	3.24	39.0	282	58.6	2.52
HSS 9.625 x 0.375	9.625	0.375	0.349	37.08	10.2	27.6	110	22.9	3.28	30.0	220	45.7	2.52
HSS 9.625 x 0.313	9.625	0.313	0.291	31.11	8.53	33.1	93.0	19.3	3.30	25.4	186	38.6	2.52
HSS 9.625 x 0.250	9.625	0.250	0.233	25.06	6.87	41.3	75.9	15.8	3.32	20.6	152	31.6	2.52
HSS 9.625 x 0.188	9.625	0.188	0.174	18.92	5.17	55.3	57.7	12.0	3.34	15.5	115	23.9	2.52
HSS 8.625 x 0.625	8.625	0.625	0.581	53.45	14.7	14.8	119	27.6	2.85	37.7	238	55.2	2.26
HSS 8.625 x 0.500	8.625	0.500	0.465	43.43	11.9	18.5	100	23.2	2.90	31.0	200	46.4	2.26
HSS 8.625 x 0.375	8.625	0.375	0.349	33.07	9.07	24.7	77.8	18.0	2.93	23.9	156	36.2	2.26
HSS 8.625 x 0.322	8.625	0.322	0.299	28.58	7.82	28.8	67.9	15.7	2.95	20.7	136	31.5	2.26
HSS 8.625 x 0.250	8.625	0.250	0.233	22.38	6.14	37.0	54.1	12.5	2.97	16.4	108	25.0	2.26

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	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 8.625 x 0.188	8.625	0.188	0.174	16.91	4.62	49.6	41.3	9.58	2.99	12.4	82.6	19.2	2.26
HSS 7.000 x 0.500	7	0.500	0.465	34.74	9.55	15.1	51.2	14.6	2.32	19.9	102.0	29.1	1.83
HSS 7.000 x 0.375	7	0.375	0.349	26.56	7.29	20.1	40.4	11.5	2.35	15.5	80.8	23.1	1.83
HSS 7.000 x 0.313	7	0.313	0.291	22.34	6.13	24.1	34.6	9.89	2.38	13.1	69.2	19.8	1.83
HSS 7.000 x 0.250	7	0.250	0.233	18.04	4.95	30.0	28.4	8.11	2.40	10.7	56.8	16.2	1.83
HSS 6.625 x 0.500	6.625	0.500	0.465	32.74	9.00	14.2	42.9	13.0	2.18	17.7	85.8	25.9	1.73
HSS 6.625 x 0.437	6.625	0.437	0.406	28.91	7.93	16.3	38.5	11.6	2.20	15.7	77.0	23.2	1.73
HSS 6.625 x 0.432	6.625	0.432	0.402	28.60	7.86	16.5	38.2	11.5	2.20	15.6	76.4	23.1	1.73
HSS 6.625 x 0.375	6.625	0.375	0.349	25.06	6.88	19.0	34.0	10.3	2.22	13.8	68.0	20.5	1.73
HSS 6.625 x 0.313	6.625	0.313	0.291	21.09	5.79	22.8	29.1	8.78	2.24	11.7	58.2	17.6	1.73
HSS 6.625 x 0.280	6.625	0.280	0.260	18.99	5.20	25.5	26.4	7.97	2.25	10.5	52.8	15.9	1.73
HSS 6.625 x 0.250	6.625	0.250	0.233	17.04	4.68	28.4	23.9	7.22	2.26	9.52	47.8	14.4	1.73
HSS 6.625 x 0.188	6.625	0.188	0.174	12.90	3.53	38.1	18.4	5.55	2.28	7.24	36.8	11.1	1.73
HSS 6.625 x 0.134	6.625	0.134	0.125	9.30	2.55	53.0	13.5	4.08	2.30	5.28	27.0	8.15	1.73
HSS 6.625 x 0.125	6.625	0.125	0.116	8.69	2.37	57.1	12.6	3.80	2.31	4.92	25.2	7.61	1.73
HSS 6 x 0.313	6.625	0.313	0.291	21.09	5.79	22.8	29.1	8.78	2.24	11.7	58.2	17.6	1.73
HSS 6 x 0.250	6.625	0.250	0.233	17.04	4.68	28.4	23.9	7.22	2.26	9.5	47.8	14.4	1.73
HSS 6 x 0.188	6.625	0.188	0.175	12.94	3.55	37.9	18.5	5.58	2.28	7.3	37.0	11.2	1.73
HSS 5.563 x 0.500	5.563	0.500	0.465	27.06	7.45	12.0	24.4	8.77	1.81	12.1	48.8	17.5	1.46
HSS 5.563 x 0.375	5.563	0.375	0.349	20.80	5.72	15.9	19.5	7.01	1.85	9.50	39.0	14.0	1.46
HSS 5.563 x 0.258	5.563	0.258	0.240	14.63	4.01	23.2	14.2	5.11	1.88	6.80	28.4	10.2	1.46
HSS 5.563 x 0.250	5.563	0.250	0.233	14.20	3.90	23.9	13.9	5.00	1.89	6.62	27.8	9.99	1.46
HSS 5.563 x 0.188	5.563	0.188	0.174	10.77	2.95	32.0	10.7	3.85	1.90	5.05	21.4	7.69	1.46
HSS 5.563 x 0.134	5.563	0.134	0.125	7.78	2.14	44.5	7.90	2.84	1.92	3.70	15.8	5.68	1.46
HSS 5.000 x 0.500	5	0.500	0.465	24.05	6.62	10.8	17.2	6.88	1.61	9.60	34.4	13.8	1.31
HSS 5.000 x 0.375	5	0.375	0.349	18.54	5.10	14.3	13.9	5.56	1.65	7.56	27.8	11.1	1.31
HSS 5.000 x 0.313	5	0.313	0.291	15.66	4.30	17.2	12.0	4.80	1.67	6.46	24.0	9.60	1.31
HSS 5.000 x 0.258	5	0.258	0.240	13.08	3.59	20.8	10.19	4.08	1.68	5.44	20.4	8.16	1.31
HSS 5.000 x 0.250	5	0.250	0.233	12.69	3.49	21.5	9.94	3.98	1.69	5.30	19.9	7.96	1.31
HSS 5.000 x 0.247	5	0.247	0.230	12.55	3.45	21.7	9.83	3.93	1.69	5.24	19.7	7.88	1.31
HSS 5.000 x 0.188	5	0.188	0.174	9.65	2.64	28.7	7.69	3.08	1.71	4.05	15.4	6.16	1.31

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	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 5.000 x 0.134	5	0.134	0.125	6.97	1.91	40.0	5.69	2.28	1.73	2.97	11.4	4.56	1.31
HSS 5.000 x 0.125	5	0.125	0.116	6.51	1.78	43.1	5.31	2.12	1.73	2.77	10.6	4.24	1.31
HSS 4.500 x 0.375	4.5	0.375	0.349	16.54	4.55	12.9	9.87	4.39	1.47	6.03	19.7	8.76	1.18
HSS 4.500 x 0.337	4.5	0.337	0.313	15.00	4.12	14.4	9.07	4.03	1.48	5.50	18.1	8.04	1.18
HSS 4.500 x 0.313	4.5	0.313	0.291	13.99	3.85	15.5	8.56	3.80	1.49	5.16	17.1	7.60	1.18
HSS 4.500 x 0.250	4.5	0.250	0.233	11.36	3.12	19.3	7.13	3.17	1.51	4.25	14.3	6.36	1.18
HSS 4.500 x 0.237	4.5	0.237	0.220	10.80	2.96	20.5	6.79	3.02	1.51	4.03	13.6	6.04	1.18
HSS 4.500 x 0.188	4.5	0.188	0.174	8.64	2.36	25.9	5.54	2.46	1.53	3.26	11.1	4.93	1.18
HSS 4.500 x 0.134	4.5	0.134	0.125	6.25	1.72	36.0	4.11	1.83	1.55	2.39	8.22	3.65	1.18
HSS 4.500 x 0.125	4.5	0.125	0.116	5.85	1.60	38.8	3.84	1.71	1.55	2.23	7.68	3.41	1.18
HSS 4.500 x 0.120	4.5	0.120	0.112	5.62	1.54	40.2	3.72	1.65	1.55	2.16	7.44	3.31	1.18
HSS 4.000 x 0.318	4	0.318	0.296	12.52	3.44	13.5	5.94	2.97	1.31	4.07	11.88	5.94	1.05
HSS 4.000 x 0.250	4	0.250	0.233	10.02	2.76	17.2	4.91	2.46	1.33	3.31	9.82	4.91	1.05
HSS 4.000 x 0.188	4	0.188	0.174	7.64	2.09	23.0	3.83	1.92	1.35	2.55	7.66	3.83	1.05
HSS 4.000 x 0.125	4	0.125	0.116	5.18	1.42	34.5	2.67	1.34	1.37	1.75	5.34	2.67	1.05
HSS 4.000 x 0.120	4	0.120	0.112	4.98	1.37	35.7	2.59	1.30	1.37	1.69	5.18	2.59	1.05
HSS 3.500 x 0.300	3.5	0.300	0.279	10.26	2.82	12.5	3.69	2.11	1.14	2.90	7.38	4.22	0.916
HSS 3.500 x 0.250	3.5	0.250	0.233	8.69	2.39	15.0	3.21	1.83	1.16	2.49	6.42	3.67	0.916
HSS 3.500 x 0.216	3.5	0.216	0.201	7.58	2.08	17.4	2.84	1.62	1.17	2.19	5.68	3.25	0.916
HSS 3.500 x 0.188	3.5	0.188	0.174	6.64	1.82	20.1	2.52	1.44	1.18	1.93	5.04	2.88	0.916
HSS 3.500 x 0.125	3.5	0.125	0.116	4.51	1.23	30.2	1.77	1.01	1.20	1.33	3.54	2.02	0.916
HSS 3.500 x 0.120	3.5	0.120	0.112	4.34	1.19	31.3	1.71	0.98	1.20	1.29	3.42	1.95	0.916
HSS 3.000 x 0.250	3	0.250	0.233	7.35	2.03	12.9	1.95	1.30	0.980	1.79	3.90	2.60	0.785
HSS 3.000 x 0.188	3	0.188	0.174	5.64	1.54	17.2	1.55	1.03	1.00	1.39	3.10	2.07	0.785
HSS 3.000 x 0.125	3	0.125	0.116	3.84	1.05	25.9	1.09	0.727	1.02	0.965	2.18	1.45	0.785
HSS 2.875 x 0.276	2.875	0.276	0.257	7.67	2.11	11.2	1.83	1.27	0.931	1.77	3.66	2.55	0.753
HSS 2.875 x 0.250	2.875	0.250	0.233	7.02	1.93	12.3	1.70	1.18	0.939	1.63	3.40	2.37	0.753
HSS 2.875 x 0.203	2.875	0.203	0.189	5.80	1.59	15.2	1.45	1.01	0.955	1.37	2.90	2.02	0.753
HSS 2.875 x 0.188	2.875	0.188	0.174	5.39	1.48	16.5	1.35	0.939	0.955	1.27	2.70	1.88	0.753
HSS 2.875 x 0.125	2.875	0.125	0.116	3.67	1.01	24.8	0.958	0.666	0.974	0.884	1.92	1.34	0.753
HSS 2.875 x 0.120	2.875	0.120	0.112	3.53	0.97	25.7	0.929	0.646	0.979	0.855	1.86	1.29	0.753

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	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 2.500 x 0.250	2.5	0.250	0.233	6.01	1.66	10.7	1.08	0.864	0.807	1.20	2.16	1.73	0.654
HSS 2.500 x 0.188	2.5	0.188	0.174	4.64	1.27	14.4	0.865	0.692	0.825	0.943	1.73	1.38	0.654
HSS 2.500 x 0.125	2.5	0.125	0.116	3.17	0.869	21.6	0.619	0.495	0.844	0.660	1.24	0.992	0.654
HSS 2.375 x 0.250	2.375	0.250	0.233	5.68	1.57	10.2	0.910	0.766	0.761	1.07	1.82	1.53	0.622
HSS 2.375 x 0.218	2.375	0.218	0.203	5.03	1.39	11.7	0.824	0.694	0.770	0.960	1.65	1.39	0.622
HSS 2.375 x 0.188	2.375	0.188	0.174	4.38	1.20	13.6	0.733	0.617	0.782	0.845	1.47	1.24	0.622
HSS 2.375 x 0.154	2.375	0.154	0.143	3.66	1.00	16.6	0.627	0.528	0.792	0.713	1.25	1.05	0.622
HSS 2.375 x 0.134	2.375	0.134	0.125	3.21	0.884	19.0	0.561	0.472	0.797	0.633	1.12	0.943	0.622
HSS 2.375 x 0.125	2.375	0.125	0.116	3.01	0.823	20.5	0.527	0.444	0.800	0.592	1.05	0.884	0.622
HSS 2.375 x 0.109	2.375	0.109	0.101	2.64	0.722	23.5	0.467	0.393	0.804	0.523	0.93	0.783	0.622
HSS 2.250 x 0.250	2.25	0.250	0.233	5.35	1.48	9.7	0.761	0.676	0.717	0.952	1.52	1.35	0.589
HSS 2.250 x 0.188	2.25	0.188	0.174	4.13	1.13	12.9	0.616	0.548	0.738	0.752	1.23	1.09	0.589
HSS 2.250 x 0.125	2.25	0.125	0.116	2.84	0.778	19.4	0.444	0.395	0.755	0.529	0.888	0.789	0.589
HSS 1.900 x 0.200	1.9	0.200	0.186	3.63	1.002	10.2	0.372	0.392	0.609	0.549	0.744	0.783	0.497
HSS 1.900 x 0.188	1.9	0.188	0.174	3.43	0.943	10.9	0.355	0.374	0.614	0.520	0.710	0.747	0.497
HSS 1.900 x 0.145	1.9	0.145	0.135	2.72	0.749	14.1	0.293	0.308	0.625	0.421	0.586	0.617	0.497
HSS 1.900 x 0.134	1.9	0.134	0.125	2.53	0.697	15.2	0.276	0.291	0.629	0.394	0.552	0.581	0.497
HSS 1.900 x 0.125	1.9	0.125	0.116	2.37	0.650	16.4	0.260	0.274	0.632	0.370	0.520	0.547	0.497
HSS 1.900 x 0.109	1.9	0.109	0.101	2.09	0.571	18.8	0.232	0.244	0.637	0.327	0.464	0.488	0.497
HSS 1.900 x 0.100	1.9	0.100	0.093	1.92	0.528	20.4	0.216	0.227	0.640	0.304	0.432	0.455	0.497
HSS 1.660 x 0.191	1.66	0.191	0.178	3.00	0.829	9.3	0.231	0.278	0.528	0.393	0.462	0.557	0.435
HSS 1.660 x 0.140	1.66	0.140	0.130	2.27	0.625	12.8	0.184	0.222	0.543	0.305	0.368	0.443	0.435
HSS 1.660 x 0.134	1.66	0.134	0.125	2.19	0.603	13.3	0.179	0.216	0.545	0.295	0.358	0.431	0.435
HSS 1.660 x 0.125	1.66	0.125	0.116	2.05	0.563	14.3	0.169	0.204	0.548	0.277	0.338	0.407	0.435
HSS 1.660 x 0.109	1.66	0.109	0.101	1.81	0.495	16.4	0.151	0.182	0.552	0.246	0.302	0.364	0.435
HSS 1.660 x 0.083	1.66	0.083	0.077	1.40	0.383	21.6	0.120	0.145	0.560	0.193	0.240	0.289	0.435
HSS 1.500 x 0.120	1.5	0.120	0.112	1.77	0.488	13.4	0.118	0.157	0.492	0.216	0.236	0.315	0.393
HSS 1.315 x 0.179	1.315	0.179	0.166	2.17	0.599	7.9	0.101	0.154	0.411	0.221	0.202	0.307	0.344
HSS 1.315 x 0.133	1.315	0.133	0.124	1.68	0.464	10.6	0.083	0.126	0.423	0.177	0.166	0.252	0.344

Atlas HSS Section Properties (Round) - ASTM A500

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	J	C	Surface Area
	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 1.315 x 0.125	1.315	0.125	0.116	1.59	0.437	11.3	0.079	0.120	0.425	0.167	0.158	0.240	0.344
HSS 1.315 x 0.109	1.315	0.109	0.101	1.41	0.385	13.0	0.071	0.108	0.429	0.149	0.142	0.216	0.344
HSS 1.315 x 0.083	1.315	0.083	0.077	1.09	0.299	17.1	0.058	0.088	0.440	0.118	0.116	0.176	0.344
HSS 1.050 x 0.109	1.05	0.109	0.101	1.10	0.301	10.4	0.034	0.065	0.336	0.091	0.068	0.130	0.275
HSS 0.840 x 0.109	0.84	0.109	0.101	0.85	0.234	8.3	0.016	0.038	0.261	0.056	0.032	0.076	0.220