

NEW
AVAILABILITY
INFORMATION
INSIDE

ASTM A1085 HSS

Specification Pocket Reference Guide



Atlas *Tube*

A DIVISION OF ZEKELMAN INDUSTRIES



ASTM A1085 HSS: A Higher Standard

Readily available from Atlas Tube, ASTM A1085 HSS offer improved performance and more cost-effective design, thanks to:

Tighter material tolerances and a minimum yield stress of 50 ksi

More available area and a higher minimum yield mean a more economical and efficient design.

Maximum limit on yield stress of 70 ksi

A1085 is the only specification used in North America or Europe that limits the maximum yield stress in HSS.

Standard requirement for Charpy V-notch toughness

A minimum CVN value of 25 ft.-lbs. at 40° F makes HSS more suitable for use in structures subject to fatigue and requiring a higher level of toughness.

Atlas Tube is a division of Zekelman Industries, the largest independent tube and pipe manufacturer in North America.

Use this guide when you're planning a new project so you can quickly reference all properties of rectangular, square and round A1085 HSS!

Frequently Asked Questions

What is ASTM A1085?

ASTM A1085 is a new specification for hollow structural sections (HSS). The intent of the standard is to raise the performance level of HSS and make HSS more efficient to use.

Why is there a new standard?

ASTM A1085 addresses some of the performance concerns that engineers have raised through the years over tolerances, yield strength control and ductility.

How is ASTM A1085 easier to design with than A500?

ASTM A500 has two common grades and different yield strengths associated with each of the different shapes. ASTM A1085 has a single grade and single yield strength associated with all shapes — rectangle/square/round. This, coupled with the tighter tolerances and no section property reduction factor typically required for ASTM A500 HSS by steel design codes, leads to fewer parameters to deal with in design and more efficient designs overall.

	ASTM A500-13, GRADE B		ASTM A1085	
Scope	Cold-formed welded & seamless		Cold-formed welded	
Max. Perimeter	88"		88"	
Thickness Range	t < 0.875"		0.148" < t < 0.875"	
Yield Stress	Round	42 ksi min.	All shapes	50 ksi min.
	Sq./rect.	46 ksi min.		70 ksi max.
Tensile Stress	Round	58 ksi min.	65 ksi min.	
	Sq./rect.	58 ksi min.		
Wall Thickness	-10%		-5%	
Mass Tolerance	N/A		-3.5%	
Corner Radii (rectangular and square HSS)	r < 3 t		t ≤ 0.4"	1.6 t to 3 t
			t > 0.4"	1.8 t to 3 t
CVN	N/A		25 ft.-lbs. @ 40° F	
Supplemental Requirements	N/A		Optional heat-treating Optional varying CVN	

What kinds of projects is ASTM A1085 suited for?

Seismic applications

ASTM A1085 has a minimum design yield stress of 50 ksi. A1085 also has a maximum yield stress requirement of 70 ksi. No other specification has a maximum yield stress limit. Having this limit on the maximum yield stress makes the expected strength of the material more predictable. R_y , as defined in the AISC Seismic Provisions (AISC 341), will be lower for A1085 than A500. This means connection designs in seismic zones can be more cost-effective when using the AISC seismic design provisions.

Bridge applications

Vehicle and pedestrian bridges are governed by AASHTO design requirements, which refer to the ASTM A709 steel specification that includes a Charpy V-notch requirement. The A500 standard for HSS did not have a Charpy V-notch requirement, thus any bridge designs that dictated the use of ASTM A500 needed to have additional Charpy V-notch testing performed. All ASTM A1085 material now comes standard with a Charpy V-notch requirement to meet the AASHTO criteria for fracture critical elements in Zone 2.

Power generation

The tighter dimensional tolerances of ASTM A1085 are ideal for projects that require tighter design tolerances. This can include nuclear power plants, similar power generation applications or any other project where more exact design criteria may be in place.

ASTM A1085 is well-suited for any project where a higher standard of performance is required or desired.

How can ASTM A1085 HSS help deliver cost savings?

Specifying ASTM A1085 HSS results in enhanced performance and the potential for cost savings. Here's how:

HSS produced to ASTM A1085 are a premium product with higher level of performance than A500. Because of the tighter material tolerances, there is more steel required to produce the product compared to HSS produced to ASTM A500. Additional regular testing is also required to satisfy the CVN requirements. These additional features lead to a price premium for HSS produced to ASTM A1085. This premium is about a 6-7% increase over current pricing of HSS produced to A500. Although ASTM A1085 costs more per pound than A500, the tighter material tolerances eliminate the need to apply a reduction factor (0.93 per AISC) when calculating the design properties of a section. This means engineers can utilize the full nominal section properties, thus potentially reducing the amount of material required and increasing the potential of cost savings. Contact Atlas Tube for information on the current premium for A1085.

How can ASTM A1085 HSS help deliver cost savings?

Cost savings

Let's say you had an axial column load demand of 380 kips, an unbraced length of 15 ft. and you are constrained to using an 8" square column. HSS 8 x 8 x 1/2, A500, Grade B, KL = 15 ft., has an axial capacity of 441 kips and HSS 8 x 8 x 3/8, A500, Grade B, KL = 15 ft., has an axial capacity of 343 kips. You would select HSS 8 x 8 x 1/2 with a nominal weight of 48.85 plf. HSS 8 x 8 x 3/8, A1085, KL = 15 ft., has an axial capacity of 390 kips, which would satisfy the load demand and have a lower nominal weight of 37.69 plf. **This is a weight savings of approximately 23%.**

Enhanced performance

For example, HSS 8 x 8 x 1/2, A500, Grade B, with an unbraced length of 15 ft., has an axial capacity of 441 kips. HSS 8 x 8 x 1/2, A1085, with an unbraced length of 15 ft., has an axial capacity of 500 kips. **This results in more than a 13% increase in capacity, with no increase in nominal weight.**

Is ASTM A1085 commonly available?

As knowledge of the ASTM A1085 standard continues to grow, so too has the availability of the material. For the latest availability of ASTM A1085 materials, visit atlastube.com



RECTANGLE HSS

ATLAS HSS SECTION PROPERTIES (RECTANGLE) – ASTM A1085

Shape (Rectangle)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area	Availability
	H	B	t _{nom}	t	lb./ft.	A			I	S	r	Z	I	S	r	Z	Depth	Width	J	C	ft. ² /ft.	
	in.	in.	in.	in.		in. ²			in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³		
HSS 24 x 12 x 3/4	24	12	0.750	0.750	171.10	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	144.40	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	116.90	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 20 x 12 x 3/4	20	12	0.750	0.750	150.80	44.3	13.0	23.7	2320	232	7.24	287	1046	174	4.86	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	91.9	18.594	10.594	1070	144	5.24	●
HSS 20 x 12 x 1/4	20	12	0.250	0.250	53.05	15.6	45.0	77.0	878	87.8	7.50	105.2	403	67.2	5.08	74.3	18.875	10.875	863	116	5.26	●
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	102.5	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	●
HSS 20 x 8 x 1/4	20	8	0.250	0.250	46.24	13.6	29.0	77.0	683	68.3	7.09	85.4	165	41.3	3.48	45.1	18.875	6.875	430	76.5	4.60	●

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 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 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	103.0	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 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	●


Shape (Rectangle)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area	Availability
	H	B	t _{nom}	t		A			I	S	r	Z	I	S	r	Z	Depth	Width	J	C		
	in.	in.	in.	in.	lb./ft.	in. ²			in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	ft. ² /ft.	
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 16 x 4 x 3/16	16	4	0.188	0.188	24.73	7.29	18.3	82.1	208	26.0	5.34	34.1	23.0	11.5	1.78	12.5	15.156	3.156	70.3	22.6	3.28	●
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	101.0	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	10.15	1.76	11.1	13.156	3.156	59.8	19.8	2.95	●
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	105.2	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	●


Shape (Rectangle)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area	Availability
	H	B	t _{nom}	t		A			I	S	r	Z	I	S	r	Z	Depth	Width	J	C		
	in.	in.	in.	in.	lb./ft.	in. ²			in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	ft. ² /ft.	
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 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 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 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	2.156	23.0	10.35	2.11	●
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 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	●










Shape (Rectangle)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area	Availability		
	H	B	t _{nom}						t	A	I	S	r	Z	I	S	r	Z	Depth	Width			J	C
	in.	in.	in.						in.	lb./ft.	in. ²	in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.			in.	in. ⁴
																								
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	10.07	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	12.4	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	10.30	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	10.52	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 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	10.09	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	10.40	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	21.22	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	13.30	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 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 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	10.45	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 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	21.22	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	13.30	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 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 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	●

Shape (Rectangle)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area	Availability	
	H	B	t _{nom}	t		A			I	S	r	Z	I	S	r	Z	Depth	Width	J	C			
	in.	in.	in.	in.	lb./ft.	in. ²			in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	ft. ² /ft.		
																							
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 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 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 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 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 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	6.68	4.16	1.20	●
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 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 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 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	●


Shape (Rectangle)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area	Availability
	H	B	t _{nom}						t	A	I	S	r	Z	I	S	r	Z	Depth	Width		
	in.	in.	in.	in.	lb./ft.	in. ²			in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³	in.	in.	in. ⁴	in. ³	ft. ² /ft.	
																						
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 1.5 x 1/4	3	1.5	0.250	0.250	6.26	1.84	3.0	9.0	1.74	1.16	0.972	1.58	0.560	0.747	0.550	0.949	1.875	0.375	1.50	1.66	0.678	
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 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 2.5 x 1.5 x 1/4	2.5	1.5	0.250	0.250	5.41	1.59	3.0	7.0	1.06	0.848	0.816	1.15	0.461	0.615	0.540	0.793	1.375	0.375	1.14	1.35	0.595	
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 x 1 x 3/16	2	1	0.188	0.188	3.04	0.896	2.3	7.6	0.360	0.360	0.634	0.501	0.115	0.230	0.360	0.300	1.156	0.156	0.311	0.528	0.446	

-  Rolled every 2-6 weeks; minimum is one standard bundle.
-  Rolled every 2-6 weeks; some sizes may be subject to minimums of 15-30 tons.
-  Rolled every 6-12 weeks; some sizes may be subject to minimums of 15-30 tons.
-  Jumbo size; available from stock or special order.



SQUARE HSS

ATLAS HSS SECTION PROPERTIES (SQUARE) — ASTM A1085


Shape (Square)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Workable Flat				Torsion		Surface Area	Availability	
	H	B	t _{nom}	t	lb./ft.	A			I	S	r	Z		J	C	ft. ² /ft.	
	in.	in.	in.	in.		in. ²			in. ⁴	in. ³	in.	in. ³	in.	in. ⁴	in. ³		
HSS 20 x 20 x 7/8	20	20	0.875	0.875	221.10	65.0	19.9	19.9	3900	390	7.75	461	16.063	6260	638	6.42	●
HSS 20 x 20 x 3/4	20	20	0.750	0.750	191.60	56.3	23.7	23.7	3430	343	7.81	403	16.625	5460	554	6.45	●
HSS 20 x 20 x 5/8	20	20	0.625	0.625	161.40	47.4	29.0	29.0	2940	294	7.88	342	17.188	4620	468	6.49	●
HSS 20 x 20 x 1/2	20	20	0.500	0.500	130.50	38.4	37.0	37.0	2410	241	7.92	279	17.750	3760	380	6.52	●
HSS 20 x 20 x 3/8	20	20	0.375	0.375	98.90	29.1	50.3	50.3	1850	185	7.97	213	18.313	2870	289	6.56	●
HSS 18 x 18 x 7/8	18	18	0.875	0.875	197.20	58.0	17.6	17.6	2780	309	6.92	368	14.063	4500	511	5.75	●
HSS 18 x 18 x 3/4	18	18	0.750	0.750	171.10	50.3	21.0	21.0	2460	273	6.99	322	14.625	3930	445	5.79	●
HSS 18 x 18 x 5/8	18	18	0.625	0.625	144.40	42.4	25.8	25.8	2110	234	7.05	274	15.188	3340	376	5.82	●
HSS 18 x 18 x 1/2	18	18	0.500	0.500	116.90	34.4	33.0	33.0	1740	193	7.11	224	15.750	2720	306	5.86	●
HSS 18 x 18 x 3/8	18	18	0.375	0.375	88.70	26.1	45	45	1340	149	7.17	172	16.313	2080	233	5.89	●
HSS 16 x 16 x 7/8	16	16	0.875	0.875	173.40	51.0	15.3	15.3	1900	238	6.10	285	12.063	3100	398	5.08	●
HSS 16 x 16 x 3/4	16	16	0.750	0.750	150.80	44.3	18.3	18.3	1690	211	6.18	250	12.625	2720	347	5.12	●
HSS 16 x 16 x 5/8	16	16	0.625	0.625	127.37	37.4	22.6	22.6	1450	181	6.23	214	13.188	2320	295	5.15	●
HSS 16 x 16 x 1/2	16	16	0.500	0.500	103.30	30.4	29.0	29.0	1200	150	6.28	175	13.750	1890	240	5.19	●
HSS 16 x 16 x 3/8	16	16	0.375	0.375	78.52	23.1	39.7	39.7	931	116	6.35	134	14.313	1450	183	5.23	●
HSS 16 x 16 x 5/16	16	16	0.313	0.313	65.87	19.4	48.1	48.1	790	98.8	6.38	114	14.594	1220	154	5.24	●

HSS 14 x 14 x 7/8	14	14	0.875	0.875	149.60	44.0	13.0	13.0	1230	176	5.29	213	10.063	2030	299	4.42	●
HSS 14 x 14 x 3/4	14	14	0.750	0.750	130.30	38.3	15.7	15.7	1100	157	5.36	188	10.625	1790	262	4.45	●
HSS 14 x 14 x 5/8	14	14	0.625	0.625	110.36	32.4	19.4	19.4	952	136	5.42	161	11.188	1530	223	4.49	●
HSS 14 x 14 x 1/2	14	14	0.500	0.500	89.68	26.4	25.0	25.0	791	113	5.47	132	11.750	1250	182	4.52	●
HSS 14 x 14 x 3/8	14	14	0.375	0.375	68.31	20.1	34.3	34.3	615	87.9	5.53	102	12.313	963	139	4.56	●
HSS 14 x 14 x 5/16	14	14	0.313	0.313	57.36	16.9	41.7	41.7	523	74.7	5.56	86	12.594	813	117	4.58	●
HSS 12 x 12 x 3/4	12	12	0.750	0.750	109.90	32.3	13.0	13.0	666	111	4.54	134	8.625	1100	188	3.79	●
HSS 12 x 12 x 5/8	12	12	0.625	0.625	93.34	27.4	16.2	16.2	580	96.7	4.60	116	9.188	943	161	3.82	●
HSS 12 x 12 x 1/2	12	12	0.500	0.500	76.07	22.4	21.0	21.0	486	81.0	4.66	95.4	9.750	777	132	3.86	●
HSS 12 x 12 x 3/8	12	12	0.375	0.375	58.10	17.1	29.0	29.0	380	63.3	4.71	73.9	10.313	599	101.2	3.89	●
HSS 12 x 12 x 5/16	12	12	0.313	0.313	48.86	14.4	35.3	35.3	324	54.0	4.74	62.6	10.594	507	85.4	3.91	●
HSS 12 x 12 x 1/4	12	12	0.250	0.250	39.43	11.6	45.0	45.0	265	44.2	4.78	50.8	10.875	410	69.0	3.93	●
HSS 10 x 10 x 5/8	10	10	0.625	0.625	76.33	22.4	13.0	13.0	321	64.2	3.79	77.6	7.188	529	109	3.15	●
HSS 10 x 10 x 1/2	10	10	0.500	0.500	62.46	18.4	17.0	17.0	271	54.2	3.84	64.6	7.750	439	89.8	3.19	●
HSS 10 x 10 x 3/8	10	10	0.375	0.375	47.90	14.1	23.7	23.7	214	42.8	3.90	50.4	8.313	341	69.3	3.23	●
HSS 10 x 10 x 5/16	10	10	0.313	0.313	40.35	11.9	28.9	28.9	184	36.8	3.93	42.8	8.594	289	58.6	3.24	●
HSS 10 x 10 x 1/4	10	10	0.250	0.250	32.63	9.59	37.0	37.0	151	30.2	3.97	34.9	8.875	235	47.5	3.26	●
HSS 10 x 10 x 3/16	10	10	0.188	0.188	24.73	7.29	50.2	50.2	116	23.2	3.99	26.7	9.156	180	36.2	3.28	●

Shape (Square)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Workable Flat				Torsion		Surface Area	Availability	
	H	B	t _{nom}	t	lb./ft.	A			I	S	r	Z	J	C	ft ² /ft.		
	in.	in.	in.	in.		in. ²			in. ⁴	in. ³	in.	in. ³	in.	in. ⁴	in. ³		
HSS 8 x 8 x 5/8	8	8	0.625	0.625	59.32	17.4	9.8	9.8	153	38.3	2.97	47.2	5.188	258	67.0	2.49	●
HSS 8 x 8 x 1/2	8	8	0.500	0.500	48.85	14.4	13.0	13.0	131	32.8	3.02	39.7	5.750	217	55.8	2.52	●
HSS 8 x 8 x 3/8	8	8	0.375	0.375	37.69	11.1	18.3	18.3	106	26.5	3.09	31.3	6.313	170	43.4	2.56	●
HSS 8 x 8 x 5/16	8	8	0.313	0.313	31.84	9.37	22.6	22.6	91.0	22.8	3.12	26.8	6.594	145	36.9	2.58	●
HSS 8 x 8 x 1/4	8	8	0.250	0.250	25.82	7.59	29.0	29.0	75.2	18.8	3.15	21.9	6.875	118	30.0	2.60	●
HSS 8 x 8 x 3/16	8	8	0.188	0.188	19.63	5.78	39.6	39.6	58.4	14.6	3.18	16.9	7.156	90.8	22.9	2.61	●
HSS 7 x 7 x 5/8	7	7	0.625	0.625	50.81	14.9	8.2	8.2	97.6	27.9	2.56	34.8	4.188	166	49.9	2.15	●
HSS 7 x 7 x 1/2	7	7	0.500	0.500	42.05	12.4	11.0	11.0	84.7	24.2	2.61	29.6	4.750	141	41.8	2.19	●
HSS 7 x 7 x 3/8	7	7	0.375	0.375	32.58	9.58	15.7	15.7	68.7	19.6	2.68	23.5	5.313	112	32.7	2.23	●
HSS 7 x 7 x 5/16	7	7	0.313	0.313	27.59	8.12	19.4	19.4	59.6	17.0	2.71	20.1	5.594	95.7	27.9	2.24	●
HSS 7 x 7 x 1/4	7	7	0.250	0.250	22.42	6.59	25.0	25.0	49.4	14.1	2.74	16.5	5.875	78.3	22.7	2.26	●
HSS 7 x 7 x 3/16	7	7	0.188	0.188	17.08	5.03	34.2	34.2	38.6	11.0	2.77	12.8	6.156	60.3	17.4	2.28	●
HSS 6 x 6 x 5/8	6	6	0.625	0.625	42.30	12.4	6.6	6.6	57.4	19.1	2.15	24.3	3.188	99.5	35.2	1.82	●
HSS 6 x 6 x 1/2	6	6	0.500	0.500	35.24	10.36	9.0	9.0	50.5	16.8	2.21	20.9	3.750	85.6	29.8	1.86	●
HSS 6 x 6 x 3/8	6	6	0.375	0.375	27.48	8.08	13.0	13.0	41.6	13.9	2.27	16.8	4.313	68.5	23.5	1.89	●
HSS 6 x 6 x 5/16	6	6	0.313	0.313	23.34	6.87	16.2	16.2	36.3	12.1	2.30	14.5	4.594	59.0	20.1	1.91	●




HSS 6 x 6 x 1/4	6	6	0.250	0.250	19.02	5.59	21.0	21.0	30.3	10.10	2.33	11.9	4.875	48.5	16.5	1.93	●
HSS 6 x 6 x 3/16	6	6	0.188	0.188	14.53	4.28	28.9	28.9	23.8	7.93	2.36	9.26	5.156	37.5	12.7	1.95	●
HSS 5 x 5 x 1/2	5	5	0.500	0.500	28.43	8.36	7.0	7.0	27.1	10.8	1.80	13.7	2.750	46.8	19.8	1.52	●
HSS 5 x 5 x 3/8	5	5	0.375	0.375	22.37	6.58	10.3	10.3	22.8	9.12	1.86	11.2	3.313	38.2	15.8	1.56	●
HSS 5 x 5 x 5/16	5	5	0.313	0.313	19.08	5.62	13.0	13.0	20.1	8.04	1.89	9.71	3.594	33.1	13.6	1.58	●
HSS 5 x 5 x 1/4	5	5	0.250	0.250	15.62	4.59	17.0	17.0	16.9	6.76	1.92	8.07	3.875	27.4	11.2	1.60	●
HSS 5 x 5 x 3/16	5	5	0.188	0.188	11.97	3.53	23.6	23.6	13.4	5.36	1.95	6.31	4.156	21.4	8.68	1.61	●
HSS 4.5 x 4.5 x 3/8	4.5	4.5	0.375	0.375	19.82	5.83	9.0	9.0	16.0	7.11	1.66	8.81	2.813	27.1	12.6	1.39	●
HSS 4.5 x 4.5 x 5/16	4.5	4.5	0.313	0.313	16.96	4.99	11.4	11.4	14.2	6.31	1.69	7.69	3.094	23.6	10.9	1.41	●
HSS 4.5 x 4.5 x 1/4	4.5	4.5	0.250	0.250	13.91	4.09	15.0	15.0	12.1	5.38	1.72	6.43	3.375	19.7	8.97	1.43	●
HSS 4.5 x 4.5 x 3/16	4.5	4.5	0.188	0.188	10.70	3.15	20.9	20.9	9.62	4.28	1.75	5.05	3.656	15.4	6.97	1.45	●
HSS 4 x 4 x 1/2	4	4	0.500	0.500	21.63	6.36	5.0	5.0	12.3	6.15	1.39	8.02	1.750	21.8	11.8	1.19	●
HSS 4 x 4 x 3/8	4	4	0.375	0.375	17.27	5.08	7.7	7.7	10.7	5.35	1.45	6.72	2.313	18.4	9.65	1.23	●
HSS 4 x 4 x 5/16	4	4	0.313	0.313	14.83	4.36	9.8	9.8	9.59	4.80	1.48	5.91	2.594	16.1	8.39	1.24	●
HSS 4 x 4 x 1/4	4	4	0.250	0.250	12.21	3.59	13.0	13.0	8.22	4.11	1.51	4.97	2.875	13.5	6.97	1.26	●
HSS 4 x 4 x 3/16	4	4	0.188	0.188	9.42	2.78	18.3	18.3	6.61	3.31	1.54	3.92	3.156	10.7	5.44	1.28	●
HSS 3.5 x 3.5 x 3/8	3.5	3.5	0.375	0.375	14.72	4.33	6.3	6.3	6.74	3.85	1.25	4.91	1.813	11.7	7.12	1.06	●
HSS 3.5 x 3.5 x 5/16	3.5	3.5	0.313	0.313	12.70	3.74	8.2	8.2	6.11	3.49	1.28	4.36	2.094	10.42	6.24	1.08	●
HSS 3.5 x 3.5 x 1/4	3.5	3.5	0.250	0.250	10.51	3.09	11.0	11.0	5.29	3.02	1.31	3.69	2.375	8.82	5.22	1.10	●
HSS 3.5 x 3.5 x 3/16	3.5	3.5	0.188	0.188	8.15	2.40	15.6	15.6	4.30	2.46	1.34	2.94	2.656	7.00	4.10	1.11	●

Shape (Square)	Shape			Design Wall Thickness	Nominal Wt.	Area	b/t	h/t	Workable Flat				Torsion		Surface Area	Availability	
	H	B	t _{nom}	t		A			I	S	r	Z		J	C		
	in.	in.	in.	in.	lb./ft.	in. ²			in. ⁴	in. ³	in.	in. ³	in.	in. ⁴	in. ³	ft. ² /ft.	
																	
HSS 3 x 3 x 3/8	3	3	0.375	0.375	12.17	3.58	5.0	5.0	3.89	2.59	1.04	3.38	1.313	6.89	4.96	0.893	●
HSS 3 x 3 x 5/16	3	3	0.313	0.313	10.58	3.11	6.6	6.6	3.59	2.39	1.07	3.04	1.594	6.22	4.40	0.910	●
HSS 3 x 3 x 1/4	3	3	0.250	0.250	8.81	2.59	9.0	9.0	3.16	2.11	1.10	2.61	1.875	5.35	3.72	0.928	●
HSS 3 x 3 x 3/16	3	3	0.188	0.188	6.87	2.02	13.0	13.0	2.61	1.74	1.14	2.10	2.156	4.29	2.95	0.946	●
HSS 2.5 x 2.5 x 1/4	2.5	2.5	0.250	0.250	7.11	2.09	7.0	7.0	1.69	1.35	0.899	1.71	1.375	2.92	2.47	0.762	●
HSS 2.5 x 2.5 x 3/16	2.5	2.5	0.188	0.188	5.59	1.65	10.3	10.3	1.43	1.14	0.931	1.40	1.656	2.39	1.98	0.780	●
HSS 2 x 2 x 3/16	2	2	0.188	0.188	4.32	1.27	7.6	7.6	0.670	0.670	0.726	0.841	1.156	1.15	1.21	0.613	●

- Rolled every 2-6 weeks; minimum is one standard bundle.
- Rolled every 2-6 weeks; some sizes may be subject to minimums of 15-30 tons.
- Rolled every 6-12 weeks; some sizes may be subject to minimums of 15-30 tons.
- Jumbo size; available from stock or special order.

ROUND HSS

ATLAS HSS SECTION PROPERTIES (ROUND) — ASTM A1085

Shape (Round)	OD	Nominal Wall Thickness	Design Wall Thickness	Nominal Wt.	Area	D/t							Surface Area	Availability
							I	S	r	Z	J	C		
	in.	t	td	lb./ft.	A		in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	ft. ² /ft.	A
HSS 20 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 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 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 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 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 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	●
HSS 16 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 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 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 14 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 x 0.375	14	0.375	0.375	54.62	16.1	37.3	373	53.3	4.81	69.6	746	107	3.67	●
HSS 14 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 12.75 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 12.75 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 12.75 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	●
HSS 10.75 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 10.75 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 10.75 x 0.313	10.75	0.313	0.313	34.87	10.3	34.3	140	26.0	3.69	34.1	280	52.1	2.81	●



HSS 10.75 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 10.75 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 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 0.313	8.625	0.313	0.313	27.82	8.16	27.6	71.0	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	16.94	4.98	45.9	44.4	10.3	2.99	13.4	88.8	20.6	2.26	●
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 0.250	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	●
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	10.6	4.24	1.69	5.65	21.2	8.48	1.31	●
HSS 5.000 x 0.188	5	0.188	0.188	9.66	2.84	26.6	8.24	3.30	1.70	4.36	16.5	6.60	1.31	●
HSS 4.500 x 0.375	4.5	0.375	0.375	16.54	4.86	12.0	10.4	4.62	1.46	6.40	20.8	9.24	1.18	●

Shape (Round)	OD	Nominal Wall Thickness	Design Wall Thickness	Nominal Wt.	Area	D/t							Surface Area	Availability
		t	td		A		I	S	r	Z	J	C		A
	in.	in.	in.	lb./ft.	in. ²		in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	ft. ² /ft.	in. ²
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	7.65	2.25	21.3	4.10	2.05	1.35	2.73	8.20	4.10	1.05	●
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	6.65	1.96	18.6	2.69	1.54	1.17	2.06	5.38	3.07	0.916	●
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	5.65	1.66	16.0	1.65	1.10	1.00	1.49	3.30	2.20	0.785	●
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 2.500 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 2.375 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 1.900 x 0.188	1.900	0.188	0.188	3.43	1.01	10.1	0.375	0.395	0.609	0.553	0.75	0.79	0.497	●

- Rolled every 2-6 weeks; minimum is one standard bundle.
- Rolled every 2-6 weeks; some sizes may be subject to minimums of 15-30 tons.
- Rolled every 6-12 weeks; some sizes may be subject to minimums of 15-30 tons.
- Jumbo size; available from stock or special order.

ATU-080217

About Atlas Tube

Atlas Tube, a division of Zekelman Industries, produces a wide range of steel tubular products and is the leading provider of hollow structural sections (HSS) in North America. Other offerings include HSS Design Tools, straight-seam electric resistance weld (ERW) pipe piling and Epox Z Kote® powder primed tubing.

For more information, contact Atlas Tube at **800.733.5683** or **info@atlastube.com**. Or, visit our website at **atlastube.com**

Follow us on

-  twitter.com/atlastube
-  linkedin.com/company/zekelman-industries
-  youtube.com/ZekelmanIndustries
-  atlastube.com/atlas-observer



Atlas *Tube*

A DIVISION OF ZEKELMAN INDUSTRIES