

Atlas HSS Section Properties (Square) - ASTM A500

Designation	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	I	S	r	Z	Workable Flat	Torsion		Surface Area
	H	B	t _{nom}											J	C	
	in	in	in											in. ⁴	in. ³	
HSS 22 x 22 x 1	22	22	1.000	0.930	277.07	76.2	20.7	20.7	5550	505	8.53	596	17.500	8890	823	7.07
HSS 22 x 22 x 7/8	22	22	0.875	0.814	244.88	67.3	24.0	24.0	4970	452	8.59	530	18.063	7890	729	7.10
HSS 22 x 22 x 3/4	22	22	0.750	0.698	212.00	58.2	28.5	28.5	4350	395	8.65	462	18.625	6860	632	7.13
HSS 22 x 22 x 5/8	22	22	0.625	0.581	178.41	48.9	34.9	34.9	3710	337	8.71	390	19.188	5790	532	7.17
HSS 22 x 22 x 1/2	22	22	0.500	0.465	144.13	39.5	44.3	44.3	3030	275	8.76	317	19.750	4700	431	7.20
HSS 20 x 20 x 1	20	20	1.000	0.930	249.85	68.7	18.5	18.5	4100	410	7.73	486	15.500	6600	673	6.40
HSS 20 x 20 x 7/8	20	20	0.875	0.814	221.06	60.8	21.6	21.6	3670	367	7.77	433	16.063	5870	597	6.43
HSS 20 x 20 x 3/4	20	20	0.750	0.698	191.58	52.6	25.7	25.7	3230	323	7.84	378	16.625	5110	519	6.47
HSS 20 x 20 x 5/8	20	20	0.625	0.581	161.40	44.3	31.4	31.4	2750	275	7.88	320	17.188	4320	437	6.50
HSS 20 x 20 x 1/2	20	20	0.500	0.465	130.52	35.8	40.0	40.0	2260	226	7.95	261	17.750	3510	355	6.53
HSS 20 x 20 x 3/8	20	20	0.375	0.349	98.94	27.1	54.3	54.3	1740	174	8.01	199	18.313	2680	269	6.57
HSS 18 x 18 x 1	18	18	1.000	0.930	222.63	61.3	16.4	16.4	2920	324	6.90	387	13.500	4740	539	5.73
HSS 18 x 18 x 7/8	18	18	0.875	0.814	197.24	54.3	19.1	19.1	2630	292	6.96	346	14.063	4220	479	5.77
HSS 18 x 18 x 3/4	18	18	0.750	0.698	171.16	47.1	22.8	22.8	2320	258	7.02	302	14.625	3690	417	5.80
HSS 18 x 18 x 5/8	18	18	0.625	0.581	144.39	39.6	28.0	28.0	1980	220	7.07	257	15.188	3120	352	5.83
HSS 18 x 18 x 1/2	18	18	0.500	0.465	116.91	32.1	35.7	35.7	1630	181	7.13	210	15.750	2540	286	5.87
HSS 18 x 18 x 3/8	18	18	0.375	0.349	88.73	24.3	48.6	48.6	1250	139	7.17	160	16.313	1940	217	5.9
HSS 16 x 16 x 1	16	16	1.000	0.930	195.40	53.8	14.2	14.2	1990	249	6.08	300	11.500	3270	419	5.07
HSS 16 x 16 x 7/8	16	16	0.875	0.814	173.43	47.7	16.7	16.7	1800	225	6.14	268	12.063	2920	373	5.10
HSS 16 x 16 x 3/4	16	16	0.750	0.698	150.75	41.5	19.9	19.9	1590	199	6.19	235	12.625	2560	326	5.13
HSS 16 x 16 x 5/8	16	16	0.625	0.581	127.37	35.0	24.5	24.5	1370	171	6.26	200	13.188	2170	276	5.17
HSS 16 x 16 x 1/2	16	16	0.500	0.465	103.30	28.3	31.4	31.4	1130	141	6.32	164	13.750	1770	224	5.20
HSS 16 x 16 x 3/8	16	16	0.375	0.349	78.52	21.5	42.8	42.8	873	109	6.37	126	14.313	1350	171	5.23
HSS 16 x 16 x 5/16	16	16	0.313	0.291	65.87	18.1	52.0	52.0	739	92.4	6.39	106	14.594	1140	144	5.25
HSS 14 x 14 x 1	14	14	1.000	0.930	168.18	46.4	12.1	12.1	1290	184	5.27	224	9.500	2130	315	4.40
HSS 14 x 14 x 7/8	14	14	0.875	0.814	149.61	41.2	14.2	14.2	1170	167	5.33	201	10.063	1910	281	4.43
HSS 14 x 14 x 3/4	14	14	0.750	0.698	130.33	35.9	17.1	17.1	1040	149	5.38	177	10.625	1680	246	4.47
HSS 14 x 14 x 5/8	14	14	0.625	0.581	110.36	30.3	21.1	21.1	897	128	5.44	151	11.188	1430	208	4.50
HSS 14 x 14 x 1/2	14	14	0.500	0.465	89.68	24.6	27.1	27.1	743	106	5.50	124	11.750	1170	170	4.53
HSS 14 x 14 x 3/8	14	14	0.375	0.349	68.31	18.7	37.1	37.1	577	82.4	5.55	95	12.313	900	130	4.57
HSS 14 x 14 x 5/16	14	14	0.313	0.291	57.36	15.7	45.1	45.1	490	70.0	5.59	81	12.594	759	109	4.58
HSS 12 x 12 x 7/8	12	12	0.875	0.814	125.79	34.7	11.7	11.7	706	118	4.51	143	8.063	1170	202	3.77
HSS 12 x 12 x 3/4	12	12	0.750	0.698	109.91	30.3	14.2	14.2	631	105	4.56	127	8.625	1030	177	3.80
HSS 12 x 12 x 5/8	12	12	0.625	0.581	93.34	25.7	17.7	17.7	548	91.3	4.62	109	9.188	885	151	3.83
HSS 12 x 12 x 1/2	12	12	0.500	0.465	76.07	20.9	22.8	22.8	457	76.2	4.68	89.6	9.750	728	123	3.87
HSS 12 x 12 x 3/8	12	12	0.375	0.349	58.10	16.0	31.4	31.4	357	59.5	4.72	69.2	10.313	561	94.6	3.90
HSS 12 x 12 x 5/16	12	12	0.313	0.291	48.86	13.4	38.2	38.2	304	50.7	4.76	58.6	10.594	474	79.7	3.92
HSS 12 x 12 x 1/4	12	12	0.250	0.233	39.43	10.8	48.5	48.5	248	41.3	4.79	47.6	10.875	384	64.5	3.93

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Designation	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	I	S	r	Z	Workable Flat	Torsion		Surface Area
	H	B	t _{nom}											J	C	
	in	in	in											in. ⁴	in. ³	
HSS 10 x 10 x 3/4	10	10	0.750	0.698	89.50	24.7	11.3	11.3	347	69.4	3.75	84.7	6.625	578	119	3.13
HSS 10 x 10 x 5/8	10	10	0.625	0.581	76.33	21.0	14.2	14.2	304	60.8	3.80	73.2	7.188	498	102	3.17
HSS 10 x 10 x 1/2	10	10	0.500	0.465	62.46	17.2	18.5	18.5	256	51.2	3.86	60.7	7.750	412	84.2	3.20
HSS 10 x 10 x 3/8	10	10	0.375	0.349	47.90	13.2	25.7	25.7	202	40.4	3.91	47.2	8.313	320	64.8	3.23
HSS 10 x 10 x 5/16	10	10	0.313	0.291	40.35	11.1	31.4	31.4	172	34.4	3.94	40.1	8.594	271	54.8	3.25
HSS 10 x 10 x 1/4	10	10	0.250	0.233	32.63	8.96	39.9	39.9	141	28.2	3.97	32.7	8.875	220	44.4	3.27
HSS 10 x 10 x 3/16	10	10	0.188	0.174	24.73	6.76	54.5	54.5	108	21.6	4.00	24.8	9.156	167	33.6	3.28
HSS 9 x 9 x 5/8	9	9	0.625	0.581	67.82	18.7	12.5	12.5	216	48.0	3.40	58.1	6.188	356	81.6	2.83
HSS 9 x 9 x 1/2	9	9	0.500	0.465	55.66	15.3	16.4	16.4	183	40.7	3.46	48.4	6.750	296	67.4	2.87
HSS 9 x 9 x 3/8	9	9	0.375	0.349	42.79	11.8	22.8	22.8	145	32.2	3.51	37.8	7.313	231	52.1	2.90
HSS 9 x 9 x 5/16	9	9	0.313	0.291	36.10	9.92	27.9	27.9	124	27.6	3.54	32.1	7.594	196	44.0	2.92
HSS 9 x 9 x 1/4	9	9	0.250	0.233	29.23	8.03	35.6	35.6	102	22.7	3.56	26.2	7.875	159	35.8	2.93
HSS 9 x 9 x 3/16	9	9	0.188	0.174	22.18	6.06	48.7	48.7	78.2	17.4	3.59	20.0	8.156	121	27.1	2.95
HSS 8 x 8 x 5/8	8	8	0.625	0.581	59.32	16.4	10.8	10.8	146	36.5	2.98	44.7	5.188	244	63.2	2.50
HSS 8 x 8 x 1/2	8	8	0.500	0.465	48.85	13.5	14.2	14.2	125	31.3	3.04	37.5	5.750	204	52.4	2.53
HSS 8 x 8 x 3/8	8	8	0.375	0.349	37.69	10.4	19.9	19.9	100	25.0	3.10	29.4	6.313	160	40.7	2.57
HSS 8 x 8 x 5/16	8	8	0.313	0.291	31.84	8.76	24.5	24.5	85.6	21.4	3.13	25.1	6.594	136	34.5	2.58
HSS 8 x 8 x 1/4	8	8	0.250	0.233	25.82	7.10	31.3	31.3	70.7	17.7	3.16	20.5	6.875	111	28.1	2.60
HSS 8 x 8 x 3/16	8	8	0.188	0.174	19.63	5.37	43.0	43.0	54.4	13.6	3.18	15.7	7.156	84.5	21.3	2.62
HSS 7 x 7 x 5/8	7	7	0.625	0.581	50.81	14.0	9.0	9.0	93.4	26.7	2.58	33.1	4.188	158	47.1	2.17
HSS 7 x 7 x 1/2	7	7	0.500	0.465	42.05	11.6	12.1	12.1	80.5	23.0	2.63	27.9	4.750	133	39.3	2.20
HSS 7 x 7 x 3/8	7	7	0.375	0.349	32.58	8.97	17.1	17.1	65.0	18.6	2.69	22.1	5.313	105	30.7	2.23
HSS 7 x 7 x 5/16	7	7	0.313	0.291	27.59	7.59	21.1	21.1	56.1	16.0	2.72	18.9	5.594	89.7	26.1	2.25
HSS 7 x 7 x 1/4	7	7	0.250	0.233	22.42	6.17	27.0	27.0	46.5	13.3	2.75	15.5	5.875	73.5	21.3	2.27
HSS 7 x 7 x 3/16	7	7	0.188	0.174	17.08	4.67	37.2	37.2	36.0	10.3	2.78	11.9	6.156	56.1	16.2	2.28
HSS 6 x 6 x 5/8	6	6	0.625	0.581	42.30	11.72	7.3	7.3	55.2	18.4	2.17	23.2	3.188	94.9	33.4	1.83
HSS 6 x 6 x 1/2	6	6	0.500	0.465	35.24	9.74	9.9	9.9	48.3	16.1	2.23	19.8	3.750	81.1	28.1	1.87
HSS 6 x 6 x 3/8	6	6	0.375	0.349	27.48	7.58	14.2	14.2	39.5	13.2	2.28	15.8	4.313	64.6	22.1	1.90
HSS 6 x 6 x 5/16	6	6	0.313	0.291	23.34	6.43	17.6	17.6	34.3	11.4	2.31	13.6	4.594	55.4	18.9	1.92
HSS 6 x 6 x 1/4	6	6	0.250	0.233	19.02	5.24	22.8	22.8	28.6	9.53	2.34	11.2	4.875	45.6	15.4	1.93
HSS 6 x 6 x 3/16	6	6	0.188	0.174	14.53	3.98	31.5	31.5	22.3	7.43	2.37	8.63	5.156	35.0	11.8	1.95
HSS 6 x 6 x 1/8	6	6	0.125	0.116	9.86	2.70	48.7	48.7	15.5	5.17	2.40	5.92	5.438	23.9	8.0	1.97

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Designation	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	I	S	r	Z	Workable Flat	Torsion		Surface Area
	H	B	t _{nom}											J	C	
	in	in	in											in. ⁴	in. ³	
HSS 5 x 5 x 1/2	5	5	0.500	0.465	28.43	7.88	7.8	7.8	26.0	10.4	1.82	13.1	2.750	44.6	18.7	1.53
HSS 5 x 5 x 3/8	5	5	0.375	0.349	22.37	6.18	11.3	11.3	21.7	8.68	1.87	10.6	3.313	36.1	14.9	1.57
HSS 5 x 5 x 5/16	5	5	0.313	0.291	19.08	5.26	14.2	14.2	19.0	7.60	1.90	9.16	3.594	31.2	12.8	1.58
HSS 5 x 5 x 1/4	5	5	0.250	0.233	15.62	4.30	18.5	18.5	16.0	6.40	1.93	7.61	3.875	25.8	10.5	1.60
HSS 5 x 5 x 3/16	5	5	0.188	0.174	11.97	3.28	25.7	25.7	12.6	5.04	1.96	5.89	4.156	19.9	8.08	1.62
HSS 5 x 5 x 0.134	5	5	0.134	0.125	8.72	2.40	37.0	37.0	9.41	3.76	1.98	4.36	4.397	14.7	5.93	1.63
HSS 5 x 5 x 1/8	5	5	0.125	0.116	8.16	2.23	40.1	40.1	8.80	3.52	1.99	4.07	4.438	13.7	5.53	1.63
HSS 4.5 x 4.5 x 1/2	4.5	4.5	0.500	0.465	25.03	6.95	6.7	6.7	18.1	8.04	1.61	10.20	2.250	31.3	14.8	1.37
HSS 4.5 x 4.5 x 3/8	4.5	4.5	0.375	0.349	19.82	5.48	9.9	9.9	15.3	6.80	1.67	8.36	2.813	25.7	11.9	1.40
HSS 4.5 x 4.5 x 5/16	4.5	4.5	0.313	0.291	16.96	4.68	12.5	12.5	13.5	6.00	1.70	7.27	3.094	22.3	10.2	1.42
HSS 4.5 x 4.5 x 1/4	4.5	4.5	0.250	0.233	13.91	3.84	16.3	16.3	11.4	5.07	1.72	6.06	3.375	18.5	8.44	1.43
HSS 4.5 x 4.5 x 3/16	4.5	4.5	0.188	0.174	10.70	2.93	22.9	22.9	9.02	4.01	1.75	4.71	3.656	14.4	6.49	1.45
HSS 4.5 x 4.5 x 0.134	4.5	4.5	0.134	0.125	7.81	2.15	33.0	33.0	6.78	3.01	1.78	3.50	3.897	10.63	4.78	1.46
HSS 4.5 x 4.5 x 1/8	4.5	4.5	0.125	0.116	7.31	2.00	35.8	35.8	6.35	2.82	1.78	3.27	3.938	9.92	4.45	1.47
HSS 4 x 4 x 1/2	4	4	0.500	0.465	21.63	6.02	5.6	5.6	11.9	5.95	1.41	7.70	1.750	21.0	11.2	1.20
HSS 4 x 4 x 3/8	4	4	0.375	0.349	17.27	4.78	8.5	8.5	10.3	5.15	1.47	6.39	2.313	17.5	9.14	1.23
HSS 4 x 4 x 5/16	4	4	0.313	0.291	14.83	4.10	10.7	10.7	9.14	4.57	1.49	5.59	2.594	15.3	7.91	1.25
HSS 4 x 4 x 1/4	4	4	0.250	0.233	12.21	3.37	14.2	14.2	7.80	3.90	1.52	4.69	2.875	12.8	6.56	1.27
HSS 4 x 4 x 3/16	4	4	0.188	0.174	9.42	2.58	20.0	20.0	6.21	3.11	1.55	3.67	3.156	10.0	5.07	1.28
HSS 4 x 4 x 0.134	4	4	0.134	0.125	6.89	1.90	29.0	29.0	4.70	2.35	1.57	2.74	3.397	7.40	3.75	1.30
HSS 4 x 4 x 1/8	4	4	0.125	0.116	6.46	1.77	31.5	31.5	4.40	2.20	1.58	2.56	3.438	6.91	3.49	1.30
HSS 4 x 4 x .120	4	4	0.120	0.112	6.21	1.71	32.7	32.7	4.27	2.14	1.58	2.48	3.460	6.69	3.38	1.30
HSS 3.5 x 3.5 x 3/8	3.5	3.5	0.375	0.349	14.72	4.09	7.0	7.0	6.49	3.71	1.26	4.69	1.813	11.2	6.77	1.07
HSS 3.5 x 3.5 x 5/16	3.5	3.5	0.313	0.291	12.70	3.52	9.0	9.0	5.84	3.34	1.29	4.14	2.094	9.89	5.90	1.08
HSS 3.5 x 3.5 x 1/4	3.5	3.5	0.250	0.233	10.51	2.91	12.0	12.0	5.04	2.88	1.32	3.50	2.375	8.35	4.92	1.10
HSS 3.5 x 3.5 x 0.238	3.5	3.5	0.238	0.221	10.07	2.77	12.8	12.8	4.85	2.77	1.32	3.35	2.429	8.00	4.71	1.10
HSS 3.5 x 3.5 x 3/16	3.5	3.5	0.188	0.174	8.15	2.24	17.1	17.1	4.05	2.31	1.34	2.76	2.656	6.56	3.83	1.12
HSS 3.5 x 3.5 x 0.134	3.5	3.5	0.134	0.125	5.98	1.65	25.0	25.0	3.09	1.77	1.37	2.07	2.897	4.90	2.84	1.13
HSS 3.5 x 3.5 x 1/8	3.5	3.5	0.125	0.116	5.61	1.54	27.2	27.2	2.90	1.66	1.37	1.93	2.938	4.58	2.65	1.13
HSS 3.5 x 3.5 x .120	3.5	3.5	0.120	0.112	5.39	1.49	28.3	28.3	2.81	1.61	1.37	1.87	2.960	4.43	2.57	1.13
HSS 3 x 3 x 3/8	3	3	0.375	0.349	12.17	3.39	5.6	5.6	3.78	2.52	1.06	3.25	1.313	6.64	4.74	0.900
HSS 3 x 3 x 5/16	3	3	0.313	0.291	10.58	2.94	7.3	7.3	3.45	2.30	1.08	2.90	1.594	5.94	4.18	0.917
HSS 3 x 3 x 1/4	3	3	0.250	0.233	8.81	2.44	9.9	9.9	3.02	2.01	1.11	2.48	1.875	5.08	3.52	0.933
HSS 3 x 3 x .238	3	3	0.238	0.221	8.45	2.33	10.6	10.6	2.92	1.95	1.12	2.38	1.929	4.88	3.37	0.937
HSS 3 x 3 x 3/16	3	3	0.188	0.174	6.87	1.89	14.2	14.2	2.46	1.64	1.14	1.97	2.156	4.03	2.76	0.950
HSS 3 x 3 x .134	3	3	0.134	0.125	5.07	1.40	21.0	21.0	1.90	1.27	1.16	1.49	2.397	3.03	2.06	0.964
HSS 3 x 3 x 1/8	3	3	0.125	0.116	4.75	1.30	22.9	22.9	1.78	1.19	1.17	1.40	2.438	2.84	1.92	0.967
HSS 3 x 3 x .120	3	3	0.120	0.112	4.58	1.26	23.8	23.8	1.73	1.15	1.17	1.35	2.460	2.75	1.86	0.968

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	H	B	t _{nom}											J	C	
	in	in	in											in. ⁴	in. ³	
HSS 2.5 x 2.5 x 5/16	2.5	2.5	0.313	0.291	8.45	2.35	5.6	5.6	1.82	1.46	0.880	1.88	1.094	3.20	2.74	0.750
HSS 2.5 x 2.5 x 1/4	2.5	2.5	0.250	0.233	7.11	1.97	7.7	7.7	1.63	1.30	0.910	1.63	1.375	2.79	2.35	0.767
HSS 2.5 x 2.5 x .238	2.5	2.5	0.238	0.221	6.83	1.89	8.3	8.3	1.58	1.26	0.914	1.58	1.429	2.69	2.25	0.770
HSS 2.5 x 2.5 x 3/16	2.5	2.5	0.188	0.174	5.59	1.54	11.4	11.4	1.35	1.08	0.936	1.32	1.656	2.25	1.86	0.784
HSS 2.5 x 2.5 x .134	2.5	2.5	0.134	0.125	4.16	1.15	17.0	17.0	1.06	0.85	0.960	1.01	1.897	1.71	1.40	0.798
HSS 2.5 x 2.5 x 1/8	2.5	2.5	0.125	0.116	3.90	1.07	18.6	18.6	0.998	0.798	0.966	0.947	1.938	1.61	1.31	0.800
HSS 2.5 x 2.5 x .120	2.5	2.5	0.120	0.112	3.76	1.04	19.3	19.3	0.970	0.776	0.966	0.919	1.960	1.56	1.27	0.801
HSS 2.5 x 2.5 x .083	2.5	2.5	0.083	0.077	2.67	0.73	29.5	29.5	0.708	0.566	0.985	0.659	2.127	1.11	0.90	0.811
HSS 2.125 x 2.125 x 3/16	2.125	2.125	0.188	0.175	4.65	1.29	9.1	9.1	0.789	0.743	0.782	0.920	1.279	1.33	1.31	0.658
HSS 2.125 x 2.125 x .134	2.125	2.125	0.134	0.125	3.47	0.96	14.0	14.0	0.626	0.589	0.808	0.709	1.522	1.03	0.99	0.673
HSS 2.125 x 2.125 x 1/8	2.125	2.125	0.125	0.116	3.27	0.90	15.3	15.3	0.592	0.557	0.811	0.667	1.563	0.96	0.93	0.675
HSS 2 x 2 x 1/4	2	2	0.250	0.233	5.41	1.51	5.6	5.6	0.747	0.747	0.703	0.964	0.875	1.31	1.41	0.600
HSS 2 x 2 x 3/16	2	2	0.188	0.174	4.32	1.19	8.5	8.5	0.641	0.641	0.734	0.797	1.156	1.09	1.14	0.617
HSS 2 x 2 x .134	2	2	0.134	0.125	3.25	0.90	13.0	13.0	0.514	0.514	0.756	0.621	1.397	0.85	0.87	0.631
HSS 2 x 2 x 1/8	2	2	0.125	0.116	3.05	0.84	14.2	14.2	0.486	0.486	0.761	0.584	1.438	0.796	0.817	0.633
HSS 2 x 2 x .120	2	2	0.120	0.112	2.94	0.81	14.9	14.9	0.473	0.473	0.764	0.568	1.460	0.773	0.793	0.635
HSS 2 x 2 x .100	2	2	0.100	0.093	2.50	0.69	18.5	18.5	0.410	0.410	0.771	0.486	1.550	0.660	0.673	0.640
HSS 2 x 2 x .083	2	2	0.083	0.077	2.11	0.58	23.0	23.0	0.351	0.351	0.778	0.412	1.627	0.559	0.568	0.645
HSS 2 x 2 x .065	2	2	0.065	0.060	1.67	0.46	30.3	30.3	0.283	0.283	0.784	0.330	1.708	0.445	0.451	0.649
HSS 1.5 x 1.5 x 1/4	1.5	1.5	0.250	0.233	3.71	1.04	3.4	3.4	0.260	0.347	0.500	0.469	0.375	0.470	0.699	0.433
HSS 1.5 x 1.5 x 3/16	1.5	1.5	0.188	0.174	3.04	0.84	5.6	5.6	0.236	0.315	0.530	0.406	0.656	0.414	0.592	0.450
HSS 1.5 x 1.5 x .134	1.5	1.5	0.134	0.125	2.33	0.65	9.0	9.0	0.197	0.263	0.551	0.326	0.897	0.334	0.465	0.464
HSS 1.5 x 1.5 x 1/8	1.5	1.5	0.125	0.116	2.20	0.61	9.9	9.9	0.188	0.251	0.555	0.309	0.938	0.316	0.438	0.467
HSS 1.5 x 1.5 x 0.120	1.5	1.5	0.120	0.112	2.13	0.59	10.4	10.4	0.184	0.245	0.558	0.301	0.960	0.308	0.426	0.468
HSS 1.5 x 1.5 x 0.100	1.5	1.5	0.100	0.093	1.82	0.50	13.1	13.1	0.162	0.216	0.569	0.260	1.050	0.266	0.365	0.473
HSS 1.5 x 1.5 x 0.083	1.5	1.5	0.083	0.077	1.54	0.42	16.5	16.5	0.140	0.187	0.577	0.223	1.127	0.227	0.310	0.478
HSS 1.5 x 1.5 x 0.065	1.5	1.5	0.065	0.060	1.23	0.34	22.0	22.0	0.115	0.153	0.582	0.180	1.208	0.183	0.248	0.483
HSS 1.25 x 1.25 x 1/8	1.25	1.25	0.125	0.116	1.78	0.49	7.8	7.8	0.102	0.163	0.456	0.204	0.688	0.174	0.292	0.383
HSS 1.25 x 1.25 x 0.120	1.25	1.25	0.120	0.112	1.72	0.48	8.2	8.2	0.099	0.158	0.454	0.199	0.710	0.170	0.285	0.385
HSS 1.25 x 1.25 x 0.100	1.25	1.25	0.100	0.093	1.48	0.41	10.4	10.4	0.089	0.142	0.466	0.174	0.800	0.148	0.246	0.390
HSS 1.25 x 1.25 x 0.083	1.25	1.25	0.083	0.077	1.26	0.35	13.2	13.2	0.078	0.125	0.472	0.150	0.877	0.128	0.210	0.395
HSS 1.25 x 1.25 x 0.065	1.25	1.25	0.065	0.060	1.01	0.28	17.8	17.8	0.064	0.102	0.478	0.122	0.958	0.103	0.169	0.399
HSS 1 x 1 x 1/8	1	1	0.125	0.116	1.352	0.38	5.6	5.6	0.047	0.094	0.352	0.120	0.438	0.082	0.175	0.300
HSS 1 x 1 x 0.120	1	1	0.120	0.112	1.31	0.37	5.9	5.9	0.046	0.092	0.353	0.118	0.460	0.080	0.171	0.301
HSS 1 x 1 x 0.100	1	1	0.100	0.093	1.14	0.32	7.8	7.8	0.042	0.084	0.362	0.104	0.550	0.071	0.150	0.307
HSS 1 x 1 x 0.083	1	1	0.083	0.077	0.98	0.27	10.0	10.0	0.037	0.074	0.370	0.091	0.627	0.062	0.129	0.311
HSS 1 x 1 x 0.065	1	1	0.065	0.060	0.79	0.22	13.7	13.7	0.031	0.062	0.375	0.075	0.708	0.051	0.105	0.316
HSS 0.75 x 0.75 x 0.120	0.75	0.75	0.120	0.112	0.90	0.25	3.7	3.7	0.016	0.043	0.253	0.058	0.210	0.029	0.086	0.218

Atlas HSS Section Properties (Square) - ASTM A500

Designation	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	I	S	r	Z	Workable Flat	Torsion		Surface Area
	H	B	t _{nom}											J	C	
	in	in	in											in. ⁴	in. ³	
HSS 0.75 x 0.75 x 0.083	0.75	0.75	0.083	0.077	0.69	0.19	6.7	6.7	0.014	0.037	0.271	0.047	0.377	0.024	0.068	0.228
HSS 0.75 x 0.75 x 0.065	0.75	0.75	0.065	0.060	0.57	0.16	9.5	9.5	0.012	0.032	0.274	0.040	0.458	0.020	0.056	0.233
HSS 0.5 x 0.5 x 0.065	0.5	0.5	0.065	0.060	0.35	0.10	5.3	5.3	0.003	0.012	0.173	0.015	0.208	0.005	0.022	0.149