

Atlas HSS Section Properties (Rectangle) - ASTM A500

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	t _{nom}						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						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	171.16	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	144.39	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	116.91	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	150.75	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	0.581	127.37	35.0	17.7	31.4	1880	188	7.33	230	851	142	4.93	162	17.188	9.188	1890	257	5.17
HSS 20 x 12 x 1/2	20	12	0.500	0.465	103.30	28.3	22.8	40.0	1550	155	7.40	188	705	118	4.99	132	17.750	9.750	1540	209	5.20
HSS 20 x 12 x 3/8	20	12	0.375	0.349	78.52	21.5	31.4	54.3	1200	120	7.47	144	547	91.2	5.04	102	18.313	10.313	1180	160	5.23
HSS 20 x 12 x 5/16	20	12	0.313	0.291	65.87	18.1	38.2	65.7	1010	101	7.47	122	464	77.3	5.06	85.8	18.594	10.594	1000	134	5.25
HSS 20 x 12 x 1/4	20	12	0.250	0.233	53.05	14.6	48.5	82.8	822	82.2	7.50	98.3	377	62.8	5.08	69.5	18.875	10.875	806	108	5.27
HSS 20 x 8 x 5/8	20	8	0.625	0.581	110.36	30.3	10.8	31.4	1440	144	6.89	185	338	84.5	3.34	96.4	17.188	5.188	916	167	4.50
HSS 20 x 8 x 1/2	20	8	0.500	0.465	89.68	24.6	14.2	40.0	1190	119	6.96	152	283	70.8	3.39	79.5	17.750	5.750	757	137	4.53
HSS 20 x 8 x 3/8	20	8	0.375	0.349	68.31	18.7	19.9	54.3	926	92.6	7.04	117	222	55.5	3.45	61.5	18.313	6.313	586	105	4.57
HSS 20 x 8 x 5/16	20	8	0.313	0.291	57.36	15.7	24.5	65.7	786	78.6	7.08	98.6	189	47.3	3.47	52.0	18.594	6.594	496	88.3	4.58
HSS 20 x 8 x 1/4	20	8	0.250	0.233	46.24	12.7	31.3	82.8	640	64.0	7.10	79.9	155	38.8	3.49	42.3	18.875	6.875	403	71.5	4.60
HSS 20 x 4 x 1/2	20	4	0.500	0.465	76.07	20.9	5.6	40.0	838	83.8	6.33	115	58.7	29.4	1.68	34.0	17.750	1.750	195	63.8	3.87
HSS 20 x 4 x 3/8	20	4	0.375	0.349	58.10	16.0	8.5	54.3	657	65.7	6.41	89.3	47.6	23.8	1.72	26.8	18.313	2.313	156	49.9	3.90
HSS 20 x 4 x 5/16	20	4	0.313	0.291	48.86	13.4	10.7	65.7	560	56.0	6.46	75.6	41.2	20.6	1.75	22.9	18.594	2.594	134	42.4	3.92
HSS 20 x 4 x 1/4	20	4	0.250	0.233	39.43	10.8	14.2	82.8	458	45.8	6.51	61.5	34.3	17.2	1.78	18.7	18.875	2.875	111	34.7	3.93
HSS 18 x 6 x 5/8	18	6	0.625	0.581	93.34	25.7	7.3	28.0	923	103	5.99	135	158	52.7	2.48	61.0	15.188	3.188	462	109	3.83
HSS 18 x 6 x 1/2	18	6	0.500	0.465	76.07	20.9	9.9	35.7	770	85.6	6.07	112	134	44.7	2.53	50.7	15.750	3.750	387	89.9	3.87
HSS 18 x 6 x 3/8	18	6	0.375	0.349	58.10	16.0	14.2	48.6	602	66.9	6.13	86.4	106	35.3	2.57	39.5	16.313	4.313	302	69.5	3.90
HSS 18 x 6 x 5/16	18	6	0.313	0.291	48.86	13.4	17.6	58.9	513	57.0	6.19	73.1	91.3	30.4	2.61	33.5	16.594	4.594	257	58.7	3.92
HSS 18 x 6 x 1/4	18	6	0.250	0.233	39.43	10.8	22.8	74.3	419	46.6	6.23	59.4	75.1	25.0	2.64	27.3	16.875	4.875	210	47.7	3.93
HSS 16 x 12 x 3/4	16	12	0.750	0.750	130.33	38.3	13.0	18.3	1340	168	5.91	205	856	143	4.73	168	12.625	8.625	1710	256	4.45
HSS 16 x 12 x 5/8	16	12	0.625	0.581	110.36	30.3	17.7	24.5	1090	136	6.00	165	700	117	4.81	135	13.188	9.188	1370	204	4.50
HSS 16 x 12 x 1/2	16	12	0.500	0.465	89.68	24.6	22.8	31.4	904	113	6.06	135	581	96.8	4.86	111	13.750	9.750	1120	166	4.53
HSS 16 x 12 x 3/8	16	12	0.375	0.349	68.31	18.7	31.4	42.8	702	87.8	6.13	104	452	75.3	4.92	85.5	14.313	10.313	862	127	4.57
HSS 16 x 12 x 5/16	16	12	0.313	0.291	57.36	15.7	38.2	52.0	595	74.4	6.16	87.7	384	64.0	4.95	72.2	14.594	10.594	727	107	4.58
HSS 16 x 12 x 1/4	16	12	0.250	0.233	46.24	12.7	48.5	65.7	484	60.5	6.17	71.1	313	52.2	4.96	58.5	14.875	10.875	588	86.4	4.60
HSS 16 x 8 x 5/8	16	8	0.625	0.581	93.34	25.7	10.8	24.5	815	102	5.63	129	274	68.5	3.27	79.2	13.188	5.188	681	132	3.83
HSS 16 x 8 x 1/2	16	8	0.500	0.465	76.07	20.9	14.2	31.4	679	84.9	5.70	106	230	57.5	3.32	65.5	13.750	5.750	563	108	3.87
HSS 16 x 8 x 3/8	16	8	0.375	0.349	58.10	16.0	19.9	42.8	531	66.4	5.76	82.1	181	45.3	3.36	50.8	14.313	6.313	436	83.4	3.90
HSS 16 x 8 x 5/16	16	8	0.313	0.291	48.86	13.4	24.5	52.0	451	56.4	5.80	69.4	155	38.8	3.40	43.0	14.594	6.594	369	70.4	3.92
HSS 16 x 8 x 1/4	16	8	0.250	0.233	39.43	10.8	31.3	65.7	368	46.0	5.84	56.4	127	31.8	3.43	35.0	14.875	6.875	300	57.0	3.93
HSS 16 x 4 x 5/8	16	4	0.625	0.581	76.33	21.0	3.9	24.5	539	67.4	5.07	92.9	54.1	27.1	1.61	32.5	13.188	1.188	174	60.5	3.17
HSS 16 x 4 x 1/2	16	4	0.500	0.465	62.46	17.2	5.6	31.4	455	56.9	5.14	77.3	47.0	23.5	1.65	27.4	13.750	1.750	150	50.7	3.20
HSS 16 x 4 x 3/8	16	4	0.375	0.349	47.90	13.2	8.5	42.8	360	45.0	5.22	60.2	38.3	19.2	1.70	21.7	14.313	2.313	120	39.7	3.23
HSS 16 x 4 x 5/16	16	4	0.313	0.291	40.35	11.1	10.7	52.0	308	38.5	5.27	51.1	33.2	16.6	1.73	18.5	14.594	2.594	103	33.8	3.25
HSS 16 x 4 x 1/4	16	4	0.250	0.233	32.63	8.96	14.2	65.7	253	31.6	5.31	41.7	27.7	13.9	1.76	15.2	14.875	2.875	85.2	27.6	3.27
HSS 16 x 4 x 3/16	16	4	0.188	0.174	24.73	6.76	20.0	89.0	193	24.1	5.34	31.7	21.5	10.8	1.78	11.7	15.156	3.156	65.5	21.1	3.28
HSS 14 x 10 x 5/8	14	10	0.625	0.581	93.34	25.7	14.2	21.1	687	98.1	5.17	120	407	81.4	3.98	95.1	11.188	7.188	832	146	3.83
HSS 14 x 10 x 1/2	14	10	0.500	0.465	76.07	20.9	18.5	27.1	573	81.9	5.24	98.8	341	68.2	4.04	78.5	11.750	7.750	685	120	3.87
HSS 14 x 10 x 3/8	14	10	0.375	0.349	58.10	16.0	25.7	37.1	447	63.9	5.29	76.3	267	53.4	4.09	60.7	12.313	8.313	528	91.8	3.90
HSS 14 x 10 x 5/16	14	10	0.313	0.291	48.86	13.4	31.4	45.1	380	54.3	5.33	64.6	227	45.4	4.12	51.4	12.594	8.594	446	77.4	3.92
HSS 14 x 10 x 1/4	14	10	0.250	0.233	39.43	10.8	39.9	57.1	310	44.3	5.36	52.4	186	37.2	4.15	41.8	12.875	8.875	362	62.6	3.93
HSS 14 x 6 x 5/8	14	6	0.625	0.581	76.33	21.0	7.3	21.1	478	68.3	4.77	88.7	124	41.3	2.43	48.4	11.188	3.188	334	83.7	3.17
HSS 14 x 6 x 1/2	14	6	0.500	0.465	62.46	17.2	9.9	27.1	402	57.4	4.83	73.6	105	35.0	2.47	40.4	11.750	3.750	279	69.3	3.20
HSS 14 x 6 x 3/8	14	6	0.375	0.349	47.90	13.2	14.2	37.1	317	45.3	4.90	57.3	84.1	28.0	2.52	31.6	12.313	4.313	219	53.7	3.23

Atlas HSS Section Properties (Rectangle) - ASTM A500

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	tnom						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.	in.	in.4	in.3	
HSS 14 x 6 x 5/16	14	6	0.313	0.291	40.35	11.1	17.6	45.1	271	38.7	4.94	48.6	72.3	24.1	2.55	26.9	12.594	4.594	186	45.5	3.25
HSS 14 x 6 x 1/4	14	6	0.250	0.233	32.63	8.96	22.8	57.1	222	31.7	4.98	39.6	59.6	19.9	2.58	22.0	12.875	4.875	152	36.9	3.27
HSS 14 x 6 x 3/16	14	6	0.188	0.174	24.73	6.76	31.5	77.5	170	24.3	5.01	30.1	45.9	15.3	2.61	16.7	13.156	5.156	116	28.0	3.28
HSS 14 x 4 x 5/8	14	4	0.625	0.581	67.82	18.7	3.9	21.1	373	53.3	4.47	73.1	47.2	23.6	1.59	28.5	11.188	1.188	148	52.6	2.83
HSS 14 x 4 x 1/2	14	4	0.500	0.465	55.66	15.3	5.6	27.1	317	45.3	4.55	61.0	41.2	20.6	1.64	24.1	11.750	1.750	127	44.1	2.87
HSS 14 x 4 x 3/8	14	4	0.375	0.349	42.79	11.8	8.5	37.1	252	36.0	4.62	47.8	33.6	16.8	1.69	19.1	12.313	2.313	102	34.6	2.90
HSS 14 x 4 x 5/16	14	4	0.313	0.291	36.10	9.92	10.7	45.1	216	30.9	4.67	40.6	29.2	14.6	1.72	16.4	12.594	2.594	87.7	29.5	2.92
HSS 14 x 4 x 1/4	14	4	0.250	0.233	29.23	8.03	14.2	57.1	178	25.4	4.71	33.2	24.4	12.2	1.74	13.5	12.875	2.875	72.4	24.1	2.93
HSS 14 x 4 x 3/16	14	4	0.188	0.174	22.18	6.06	20.0	77.5	137	19.6	4.75	25.3	19.0	9.50	1.77	10.3	13.156	3.156	55.8	18.4	2.95
HSS 12 x 10 x 5/8	12	10	0.625	0.581	84.84	23.3	14.2	17.7	472	78.7	4.50	95.3	356	71.2	3.91	84.1	9.188	7.188	661	124	3.50
HSS 12 x 10 x 1/2	12	10	0.500	0.465	69.27	19.0	18.5	22.8	395	65.8	4.56	78.8	298	59.6	3.96	69.6	9.750	7.750	545	102	3.53
HSS 12 x 10 x 3/8	12	10	0.375	0.349	53.00	14.6	25.7	31.4	310	51.7	4.61	61.1	234	46.8	4.00	54.0	10.313	8.313	421	78.3	3.57
HSS 12 x 10 x 5/16	12	10	0.313	0.291	44.60	12.2	31.4	38.2	264	44.0	4.65	51.7	200	40.0	4.05	45.7	10.594	8.594	356	66.1	3.58
HSS 12 x 10 x 1/4	12	10	0.250	0.233	36.03	9.90	39.9	48.5	216	36.0	4.67	42.1	164	32.8	4.07	37.2	10.875	8.875	289	53.5	3.60
HSS 12 x 8 x 5/8	12	8	0.625	0.581	76.33	21.0	10.8	17.7	397	66.2	4.35	82.1	210	52.5	3.16	61.9	9.188	5.188	454	97.7	3.17
HSS 12 x 8 x 1/2	12	8	0.500	0.465	62.46	17.2	14.2	22.8	333	55.5	4.40	68.1	178	44.5	3.22	51.5	9.750	5.750	377	80.4	3.20
HSS 12 x 8 x 3/8	12	8	0.375	0.349	47.90	13.2	19.9	31.4	262	43.7	4.46	53.0	140	35.0	3.26	40.1	10.313	6.313	293	62.1	3.23
HSS 12 x 8 x 5/16	12	8	0.313	0.291	40.35	11.1	24.5	38.2	224	37.3	4.49	44.9	120	30.0	3.29	34.1	10.594	6.594	248	52.4	3.25
HSS 12 x 8 x 1/4	12	8	0.250	0.233	32.63	8.96	31.3	48.5	184	30.7	4.53	36.6	98.8	24.7	3.32	27.8	10.875	6.875	202	42.5	3.27
HSS 12 x 8 x 3/16	12	8	0.188	0.174	24.73	6.76	43.0	66.0	140	23.3	4.55	27.8	75.7	18.9	3.35	21.1	11.156	7.156	153	32.2	3.28
HSS 12 x 6 x 5/8	12	6	0.625	0.581	67.82	18.7	7.3	17.7	321	53.5	4.14	68.8	107	35.7	2.39	42.1	9.188	3.188	271	71.1	2.83
HSS 12 x 6 x 1/2	12	6	0.500	0.465	55.66	15.3	9.9	22.8	271	45.2	4.21	57.4	91.1	30.4	2.44	35.2	9.750	3.750	227	59.0	2.87
HSS 12 x 6 x 3/8	12	6	0.375	0.349	42.79	11.8	14.2	31.4	215	35.8	4.27	44.8	72.9	24.3	2.49	27.7	10.313	4.313	178	45.8	2.90
HSS 12 x 6 x 5/16	12	6	0.313	0.291	36.10	9.92	17.6	38.2	184	30.7	4.31	38.1	62.8	20.9	2.52	23.6	10.594	4.594	152	38.8	2.92
HSS 12 x 6 x 1/4	12	6	0.250	0.233	29.23	8.03	22.8	48.5	151	25.2	4.34	31.1	51.9	17.3	2.54	19.3	10.875	4.875	124	31.6	2.93
HSS 12 x 6 x 3/16	12	6	0.188	0.174	22.18	6.06	31.5	66.0	116	19.3	4.38	23.7	40.0	13.3	2.57	14.7	11.156	5.156	94.6	24.0	2.95
HSS 12 x 4 x 5/8	12	4	0.625	0.581	59.32	16.4	3.9	17.7	245	40.8	3.87	55.5	40.4	20.2	1.57	24.5	9.188	1.188	122	44.6	2.50
HSS 12 x 4 x 1/2	12	4	0.500	0.465	48.85	13.5	5.6	22.8	210	35.0	3.94	46.7	35.3	17.7	1.62	20.9	9.750	1.750	105	37.5	2.53
HSS 12 x 4 x 3/8	12	4	0.375	0.349	37.69	10.4	8.5	31.4	168	28.0	4.02	36.7	28.9	14.5	1.67	16.6	10.313	2.313	84.1	29.5	2.57
HSS 12 x 4 x 5/16	12	4	0.313	0.291	31.84	8.76	10.7	38.2	144	24.0	4.05	31.3	25.2	12.6	1.70	14.2	10.594	2.594	72.4	25.2	2.58
HSS 12 x 4 x 1/4	12	4	0.250	0.233	25.82	7.10	14.2	48.5	119	19.8	4.09	25.6	21.0	10.5	1.72	11.7	10.875	2.875	59.8	20.6	2.60
HSS 12 x 4 x 3/16	12	4	0.188	0.174	19.63	5.37	20.0	66.0	91.8	15.3	4.13	19.6	16.4	8.20	1.75	9.00	11.156	3.156	46.1	15.7	2.62
HSS 12 x 3 x 3/8	12	3	0.375	0.349	35.13	9.67	5.6	31.4	144	24.0	3.86	32.6	14.9	9.93	1.24	11.6	10.313	1.313	47.3	21.4	2.40
HSS 12 x 3 x 5/16	12	3	0.313	0.291	29.72	8.17	7.3	38.2	124	20.7	3.90	27.9	13.1	8.73	1.27	10.0	10.594	1.594	41.3	18.4	2.42
HSS 12 x 3 x 1/4	12	3	0.250	0.233	24.12	6.63	9.9	48.5	103	17.2	3.94	22.9	11.1	7.40	1.29	8.28	10.875	1.875	34.5	15.1	2.43
HSS 12 x 3 x 3/16	12	3	0.188	0.174	18.35	5.02	14.2	66.0	79.6	13.3	3.98	17.5	8.72	5.81	1.32	6.40	11.156	2.156	26.8	11.6	2.45
HSS 10 x 8 x 5/8	10	8	0.625	0.581	67.82	18.7	10.8	14.2	253	50.6	3.68	62.2	178	44.5	3.09	53.3	7.188	5.188	346	80.4	2.83
HSS 10 x 8 x 1/2	10	8	0.500	0.465	55.66	15.3	14.2	18.5	214	42.8	3.74	51.9	151	37.8	3.14	44.5	7.750	5.750	288	66.4	2.87
HSS 10 x 8 x 3/8	10	8	0.375	0.349	42.79	11.8	19.9	25.7	169	33.8	3.78	40.5	120	30.0	3.19	34.8	8.313	6.313	224	51.4	2.90
HSS 10 x 8 x 5/16	10	8	0.313	0.291	36.10	9.92	24.5	31.4	145	29.0	3.82	34.4	103	25.8	3.22	29.6	8.594	6.594	190	43.5	2.92
HSS 10 x 8 x 1/4	10	8	0.250	0.233	29.23	8.03	31.3	39.9	119	23.8	3.85	28.1	84.7	21.2	3.25	24.2	8.875	6.875	155	35.3	2.93
HSS 10 x 8 x 3/16	10	8	0.188	0.174	22.18	6.06	43.0	54.5	91.4	18.3	3.88	21.4	65.1	16.3	3.28	18.4	9.156	7.156	118	26.7	2.95
HSS 10 x 6 x 5/8	10	6	0.625	0.581	59.32	16.4	7.3	14.2	201	40.2	3.50	51.3	89.4	29.8	2.33	35.8	7.188	3.188	209	58.6	2.50
HSS 10 x 6 x 1/2	10	6	0.500	0.465	48.85	13.5	9.9	18.5	171	34.2	3.56	43.0	76.8	25.6	2.39	30.1	7.750	3.750	176	48.7	2.53
HSS 10 x 6 x 3/8	10	6	0.375	0.349	37.69	10.4	14.2	25.7	137	27.4	3.63	33.8	61.8	20.6	2.44	23.7	8.313	4.313	139	37.9	2.57
HSS 10 x 6 x 5/16	10	6	0.313	0.291	31.84	8.76	17.6	31.4	118	23.6	3.67	28.8	53.3	17.8	2.47	20.2	8.594	4.594	118	32.2	2.58
HSS 10 x 6 x 1/4	10	6	0.250	0.233	25.82	7.10	22.8	39.9	96.9	19.4	3.69	23.6	44.1	14.7	2.49	16.6	8.875	4.875	96.7	26.2	2.60
HSS 10 x 6 x 3/16	10	6	0.188	0.174	19.63	5.37	31.5	54.5	74.6	14.9	3.73	18.0	34.1	11.4	2.52	12.7	9.156	5.156	73.8	19.9	2.62

Atlas HSS Section Properties (Rectangle) - ASTM A500

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	tnom						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.	in.	in.4	in.3	
HSS 10 x 5 x 5/8	10	5	0.625	0.581	55.06	15.2	5.6	14.2	175	35.0	3.39	45.8	57.7	23.1	1.95	27.9	7.188	2.188	149	47.6	2.33
HSS 10 x 5 x 1/2	10	5	0.500	0.465	45.45	12.5	7.8	18.5	150	30.0	3.46	38.6	50.0	20.0	2.00	23.6	7.750	2.750	127	39.8	2.37
HSS 10 x 5 x 3/8	10	5	0.375	0.349	35.13	9.67	11.3	25.7	120	24.0	3.52	30.4	40.6	16.2	2.05	18.7	8.313	3.313	100	31.2	2.40
HSS 10 x 5 x 5/16	10	5	0.313	0.291	29.72	8.17	14.2	31.4	104	20.8	3.57	26.0	35.2	14.1	2.08	16.0	8.594	3.594	86.0	26.5	2.42
HSS 10 x 5 x 1/4	10	5	0.250	0.233	24.12	6.63	18.5	39.9	85.8	17.2	3.60	21.3	29.3	11.7	2.10	13.2	8.875	3.875	70.7	21.6	2.43
HSS 10 x 5 x 3/16	10	5	0.188	0.174	18.35	5.02	25.7	54.5	66.2	13.2	3.63	16.3	22.7	9.08	2.13	10.1	9.156	4.156	54.1	16.5	2.45
HSS 10 x 4 x 5/8	10	4	0.625	0.581	50.81	14.0	3.9	14.2	149	29.8	3.26	40.3	33.5	16.8	1.55	20.6	7.188	1.188	95.7	36.7	2.17
HSS 10 x 4 x 1/2	10	4	0.500	0.465	42.05	11.6	5.6	18.5	129	25.8	3.33	34.1	29.5	14.8	1.59	17.6	7.750	1.750	82.6	31.0	2.20
HSS 10 x 4 x 3/8	10	4	0.375	0.349	32.58	8.97	8.5	25.7	104	20.8	3.41	27.0	24.3	12.2	1.65	14.0	8.313	2.313	66.5	24.4	2.23
HSS 10 x 4 x 5/16	10	4	0.313	0.291	27.59	7.59	10.7	31.4	90.1	18.0	3.45	23.1	21.2	10.6	1.67	12.1	8.594	2.594	57.3	20.9	2.25
HSS 10 x 4 x 1/4	10	4	0.250	0.233	22.42	6.17	14.2	39.9	74.7	14.9	3.48	19.0	17.7	8.85	1.69	10.0	8.875	2.875	47.4	17.1	2.27
HSS 10 x 4 x 3/16	10	4	0.188	0.174	17.08	4.67	20.0	54.5	57.8	11.6	3.52	14.6	13.9	6.95	1.73	7.66	9.156	3.156	36.5	13.1	2.28
HSS 10 x 3.5 x 3/8	10	3.5	0.375	0.349	31.31	8.62	7.0	25.7	96.1	19.2	3.34	25.3	17.8	10.2	1.44	11.8	8.313	1.813	51.5	21.1	2.15
HSS 10 x 3.5 x 5/16	10	3.5	0.313	0.291	26.53	7.30	9.0	31.4	83.2	16.6	3.38	21.7	15.6	8.91	1.46	10.2	8.594	2.094	44.6	18.0	2.17
HSS 10 x 3.5 x 1/4	10	3.5	0.250	0.233	21.57	5.93	12.0	39.9	69.1	13.8	3.41	17.9	13.1	7.49	1.49	8.45	8.875	2.375	37.0	14.8	2.18
HSS 10 x 3.5 x 3/16	10	3.5	0.188	0.174	16.44	4.50	17.1	54.5	53.6	10.7	3.45	13.7	10.3	5.89	1.51	6.52	9.156	2.656	28.6	11.4	2.20
HSS 10 x 3.5 x 0.134	10	3.5	0.134	0.125	11.91	3.27	25.0	77.0	39.6	7.9	3.48	10.1	7.7	4.40	1.53	4.81	9.397	2.897	21.2	8.3	2.21
HSS 10 x 3 x 3/8	10	3	0.375	0.349	30.03	8.27	5.6	25.7	88.0	17.6	3.26	23.7	12.4	8.27	1.22	9.73	8.313	1.313	37.8	17.7	2.07
HSS 10 x 3 x 5/16	10	3	0.313	0.291	25.46	7.01	7.3	31.4	76.3	15.3	3.30	20.3	11.0	7.33	1.25	8.42	8.594	1.594	33.0	15.2	2.08
HSS 10 x 3 x 1/4	10	3	0.250	0.233	20.72	5.70	9.9	39.9	63.6	12.7	3.34	16.7	9.28	6.19	1.28	6.99	8.875	1.875	27.6	12.5	2.10
HSS 10 x 3 x 3/16	10	3	0.188	0.174	15.80	4.32	14.2	54.5	49.4	9.9	3.38	12.8	7.33	4.89	1.30	5.41	9.156	2.156	21.5	9.64	2.12
HSS 10 x 3 x 0.134	10	3	0.134	0.125	11.45	3.15	21.0	77.0	36.6	7.3	3.41	9.4	5.52	3.68	1.32	4.01	9.397	2.397	16.0	7.09	2.13
HSS 10 x 2 x 3/8	10	2	0.375	0.349	27.48	7.58	2.7	25.7	71.7	14.3	3.08	20.3	4.70	4.70	0.790	5.76	8.313	0.313	15.9	11.0	1.90
HSS 10 x 2 x 5/16	10	2	0.313	0.291	23.34	6.43	3.9	31.4	62.6	12.5	3.12	17.5	4.24	4.24	0.810	5.06	8.594	0.594	14.2	9.56	1.92
HSS 10 x 2 x 1/4	10	2	0.250	0.233	19.02	5.24	5.6	39.9	52.5	10.5	3.17	14.4	3.67	3.67	0.840	4.26	8.875	0.875	12.2	7.99	1.93
HSS 10 x 2 x 3/16	10	2	0.188	0.174	14.53	3.98	8.5	54.5	41.0	8.2	3.21	11.1	2.97	2.97	0.860	3.34	9.156	1.156	9.74	6.22	1.95
HSS 9 x 7 x 5/8	9	7	0.625	0.581	59.32	16.4	9.0	12.5	174	38.7	3.26	48.3	117	33.4	2.67	40.5	6.188	4.188	235	62.0	2.50
HSS 9 x 7 x 1/2	9	7	0.500	0.465	48.85	13.5	12.1	16.4	149	33.1	3.32	40.5	100	28.6	2.72	34.0	6.750	4.750	197	51.5	2.53
HSS 9 x 7 x 3/8	9	7	0.375	0.349	37.69	10.4	17.1	22.8	119	26.4	3.38	31.8	80.4	23.0	2.78	26.7	7.313	5.313	154	40.0	2.57
HSS 9 x 7 x 5/16	9	7	0.313	0.291	31.84	8.76	21.1	27.9	102	22.7	3.41	27.1	69.2	19.8	2.81	22.8	7.594	5.594	131	33.9	2.58
HSS 9 x 7 x 1/4	9	7	0.250	0.233	25.82	7.10	27.0	35.6	84.1	18.7	3.44	22.2	57.2	16.3	2.84	18.7	7.875	5.875	107	27.6	2.60
HSS 9 x 7 x 3/16	9	7	0.188	0.174	19.63	5.37	37.2	48.7	64.7	14.4	3.47	16.9	44.1	12.6	2.87	14.3	8.156	6.156	81.7	20.9	2.62
HSS 9 x 5 x 1/2	9	5	0.500	0.465	42.05	11.6	7.8	16.4	115	25.6	3.15	32.5	45.2	18.1	1.97	21.5	6.750	2.750	109	35.6	2.20
HSS 9 x 5 x 3/8	9	5	0.375	0.349	32.58	8.97	11.3	22.8	92.5	20.6	3.21	25.7	36.8	14.7	2.03	17.1	7.313	3.313	86.9	27.9	2.23
HSS 9 x 5 x 5/16	9	5	0.313	0.291	27.59	7.59	14.2	27.9	79.8	17.7	3.24	22.0	32.0	12.8	2.05	14.6	7.594	3.594	74.4	23.8	2.25
HSS 9 x 5 x 1/4	9	5	0.250	0.233	22.42	6.17	18.5	35.6	66.1	14.7	3.27	18.1	26.6	10.6	2.08	12.0	7.875	3.875	61.2	19.4	2.27
HSS 9 x 5 x 3/16	9	5	0.188	0.174	17.08	4.67	25.7	48.7	51.1	11.4	3.31	13.8	20.7	8.28	2.11	9.25	8.156	4.156	46.9	14.8	2.28
HSS 8 x 6 x 5/8	8	6	0.625	0.581	50.81	14.0	7.3	10.8	114	28.5	2.85	36.1	72.3	24.1	2.27	29.5	5.188	3.188	150	46.0	2.17
HSS 8 x 6 x 1/2	8	6	0.500	0.465	42.05	11.6	9.9	14.2	98.2	24.6	2.91	30.5	62.5	20.8	2.32	24.9	5.750	3.750	127	38.4	2.20
HSS 8 x 6 x 3/8	8	6	0.375	0.349	32.58	8.97	14.2	19.9	79.1	19.8	2.97	24.1	50.6	16.9	2.38	19.8	6.313	4.313	100	30.0	2.23
HSS 8 x 6 x 5/16	8	6	0.313	0.291	27.59	7.59	17.6	24.5	68.3	17.1	3.00	20.6	43.8	14.6	2.40	16.9	6.594	4.594	85.8	25.5	2.25
HSS 8 x 6 x 1/4	8	6	0.250	0.233	22.42	6.17	22.8	31.3	56.6	14.2	3.03	16.9	36.4	12.1	2.43	13.9	6.875	4.875	70.3	20.8	2.27
HSS 8 x 6 x 3/16	8	6	0.188	0.174	17.08	4.67	31.5	43.0	43.7	10.9	3.06	13.0	28.2	9.40	2.46	10.7	7.156	5.156	53.7	15.8	2.28
HSS 8 x 4 x 5/8	8	4	0.625	0.581	42.30	11.72	3.9	10.8	82.0	20.5	2.65	27.4	26.6	13.3	1.51	16.6	5.188	1.188	70.3	28.7	1.83
HSS 8 x 4 x 1/2	8	4	0.500	0.465	35.24	9.74	5.6	14.2	71.8	18.0	2.72	23.5	23.6	11.8	1.56	14.3	5.750	1.750	61.1	24.4	1.87
HSS 8 x 4 x 3/8	8	4	0.375	0.349	27.48	7.58	8.5	19.9	58.7	14.7	2.78	18.8	19.6	9.80	1.61	11.5	6.313	2.313	49.3	19.3	1.90
HSS 8 x 4 x 5/16	8	4	0.313	0.291	23.34	6.43	10.7	24.5	51.0	12.8	2.82	16.1	17.2	8.60	1.64	9.91	6.594	2.594	42.6	16.5	1.92
HSS 8 x 4 x 1/4	8	4	0.250	0.233	19.02	5.24	14.2	31.3	42.5	10.6	2.85	13.3	14.4	7.20	1.66	8.20	6.875	2.875	35.3	13.6	1.93
HSS 8 x 4 x 3/16	8	4	0.188	0.174	14.53	3.98	20.0	43.0	33.1	8.28	2.88	10.2	11.3	5.65	1.68	6.33	7.156	3.156	27.2	10.4	1.95

Atlas HSS Section Properties (Rectangle) - ASTM A500

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	tnom						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.	in.	in.4	in.3	
HSS 8 x 3 x 1/2	8	3	0.500	0.465	31.84	8.81	3.5	14.2	58.6	14.7	2.58	20.0	11.7	7.80	1.15	9.64	5.750	0.750	34.3	17.4	1.70
HSS 8 x 3 x 3/8	8	3	0.375	0.349	24.93	6.88	5.6	19.9	48.5	12.1	2.66	16.1	9.95	6.63	1.20	7.88	6.313	1.313	28.5	14.0	1.73
HSS 8 x 3 x 5/16	8	3	0.313	0.291	21.21	5.85	7.3	24.5	42.4	10.6	2.69	13.9	8.81	5.87	1.23	6.84	6.594	1.594	24.9	12.1	1.75
HSS 8 x 3 x 1/4	8	3	0.250	0.233	17.32	4.77	9.9	31.3	35.5	8.88	2.73	11.5	7.49	4.99	1.25	5.70	6.875	1.875	20.8	10.0	1.77
HSS 8 x 3 x 3/16	8	3	0.188	0.174	13.25	3.63	14.2	43.0	27.8	6.95	2.77	8.87	5.94	3.96	1.28	4.43	7.156	2.156	16.2	7.68	1.78
HSS 8 x 3 x 1/8	8	3	0.125	0.116	9.01	2.46	22.9	66.0	19.3	4.83	2.80	6.11	4.20	2.80	1.31	3.07	7.438	2.438	11.3	5.27	1.80
HSS 8 x 2 x 3/8	8	2	0.375	0.349	22.37	6.18	2.7	19.9	38.2	9.55	2.49	13.4	3.73	3.73	0.780	4.61	6.313	0.313	12.1	8.65	1.57
HSS 8 x 2 x 5/16	8	2	0.313	0.291	19.08	5.26	3.9	24.5	33.7	8.43	2.53	11.6	3.38	3.38	0.800	4.06	6.594	0.594	10.9	7.57	1.58
HSS 8 x 2 x 1/4	8	2	0.250	0.233	15.62	4.30	5.6	31.3	28.5	7.13	2.57	9.68	2.94	2.94	0.830	3.43	6.875	0.875	9.36	6.35	1.60
HSS 8 x 2 x 3/16	8	2	0.188	0.174	11.97	3.28	8.5	43.0	22.4	5.60	2.61	7.51	2.39	2.39	0.850	2.70	7.156	1.156	7.48	4.95	1.62
HSS 8 x 2 x 1/8	8	2	0.125	0.116	8.16	2.23	14.2	66.0	15.7	3.93	2.65	5.19	1.72	1.72	0.880	1.90	7.438	1.438	5.30	3.44	1.63
HSS 7 x 5 x 1/2	7	5	0.500	0.465	35.24	9.74	7.8	12.1	60.6	17.3	2.49	21.9	35.6	14.2	1.91	17.3	4.750	2.750	75.8	27.2	1.87
HSS 7 x 5 x 3/8	7	5	0.375	0.349	27.48	7.58	11.3	17.1	49.5	14.1	2.56	17.5	29.3	11.7	1.97	13.8	5.313	3.313	60.6	21.4	1.90
HSS 7 x 5 x 5/16	7	5	0.313	0.291	23.34	6.43	14.2	21.1	43.0	12.3	2.59	15.0	25.5	10.2	1.99	11.9	5.594	3.594	52.1	18.3	1.92
HSS 7 x 5 x 1/4	7	5	0.250	0.233	19.02	5.24	18.5	27.0	35.9	10.3	2.62	12.4	21.3	8.52	2.02	9.83	5.875	3.875	42.9	15.0	1.93
HSS 7 x 5 x 3/16	7	5	0.188	0.174	14.53	3.98	25.7	37.2	27.9	7.97	2.65	9.52	16.6	6.64	2.04	7.57	6.156	4.156	32.9	11.4	1.95
HSS 7 x 5 x 1/8	7	5	0.125	0.116	9.86	2.70	40.1	57.3	19.3	5.51	2.67	6.53	11.6	4.64	2.07	5.20	6.438	4.438	22.5	7.79	1.97
HSS 7 x 4 x 1/2	7	4	0.500	0.465	31.84	8.81	5.6	12.1	50.7	14.5	2.40	18.8	20.7	10.4	1.53	12.6	4.750	1.750	50.5	21.1	1.70
HSS 7 x 4 x 3/8	7	4	0.375	0.349	24.93	6.88	8.5	17.1	41.8	11.9	2.46	15.1	17.3	8.65	1.59	10.2	5.313	2.313	41.0	16.8	1.73
HSS 7 x 4 x 5/16	7	4	0.313	0.291	21.21	5.85	10.7	21.1	36.5	10.4	2.50	13.1	15.2	7.60	1.61	8.83	5.594	2.594	35.4	14.4	1.75
HSS 7 x 4 x 1/4	7	4	0.250	0.233	17.32	4.77	14.2	27.0	30.5	8.71	2.53	10.8	12.8	6.40	1.64	7.33	5.875	2.875	29.3	11.8	1.77
HSS 7 x 4 x 3/16	7	4	0.188	0.174	13.25	3.63	20.0	37.2	23.8	6.80	2.56	8.33	10.0	5.00	1.66	5.67	6.156	3.156	22.7	9.07	1.78
HSS 7 x 4 x 1/8	7	4	0.125	0.116	9.01	2.46	31.5	57.3	16.6	4.74	2.60	5.73	7.03	3.52	1.69	3.91	6.438	3.438	15.6	6.20	1.80
HSS 7 x 3 x 1/2	7	3	0.500	0.465	28.43	7.88	3.5	12.1	40.7	11.6	2.27	15.8	10.2	6.80	1.14	8.46	4.750	0.750	28.6	15.0	1.53
HSS 7 x 3 x 3/8	7	3	0.375	0.349	22.37	6.18	5.6	17.1	34.1	9.74	2.35	12.8	8.71	5.81	1.19	6.95	5.313	1.313	23.9	12.1	1.57
HSS 7 x 3 x 5/16	7	3	0.313	0.291	19.08	5.26	7.3	21.1	29.9	8.54	2.38	11.1	7.74	5.16	1.21	6.05	5.594	1.594	20.9	10.5	1.58
HSS 7 x 3 x 1/4	7	3	0.250	0.233	15.62	4.30	9.9	27.0	25.2	7.20	2.42	9.22	6.60	4.40	1.24	5.06	5.875	1.875	17.5	8.68	1.60
HSS 7 x 3 x 3/16	7	3	0.188	0.174	11.97	3.28	14.2	37.2	19.8	5.66	2.46	7.14	5.24	3.49	1.26	3.94	6.156	2.156	13.7	6.69	1.62
HSS 7 x 3 x 1/8	7	3	0.125	0.116	8.16	2.23	22.9	57.3	13.8	3.94	2.49	4.93	3.71	2.47	1.29	2.73	6.438	2.438	9.48	4.60	1.63
HSS 6 x 5 x 1/2	6	5	0.500	0.465	31.84	8.81	7.8	9.9	41.1	13.7	2.16	17.2	30.8	12.3	1.87	15.2	3.750	2.750	59.8	23.0	1.70
HSS 6 x 5 x 3/8	6	5	0.375	0.349	24.93	6.88	11.3	14.2	33.9	11.3	2.22	13.8	25.5	10.2	1.93	12.2	4.313	3.313	48.1	18.2	1.73
HSS 6 x 5 x 5/16	6	5	0.313	0.291	21.21	5.85	14.2	17.6	29.6	9.87	2.25	11.9	22.3	8.92	1.95	10.5	4.594	3.594	41.4	15.6	1.75
HSS 6 x 5 x 1/4	6	5	0.250	0.233	17.32	4.77	18.5	22.8	24.7	8.23	2.28	9.87	18.7	7.48	1.98	8.72	4.875	3.875	34.2	12.8	1.77
HSS 6 x 5 x 3/16	6	5	0.188	0.174	13.25	3.63	25.7	31.5	19.3	6.43	2.31	7.62	14.6	5.84	2.01	6.73	5.156	4.156	26.3	9.76	1.78
HSS 6 x 5 x 1/8	6	5	0.125	0.116	9.01	2.46	40.1	48.7	13.4	4.47	2.33	5.24	10.2	4.08	2.04	4.63	5.438	4.438	18.0	6.66	1.80
HSS 6 x 4 x 1/2	6	4	0.500	0.465	28.43	7.88	5.6	9.9	34.0	11.3	2.08	14.6	17.8	8.90	1.50	11.0	3.750	1.750	40.3	17.8	1.53
HSS 6 x 4 x 3/8	6	4	0.375	0.349	22.37	6.18	8.5	14.2	28.3	9.43	2.14	11.9	14.9	7.45	1.55	8.94	4.313	2.313	32.8	14.2	1.57
HSS 6 x 4 x 5/16	6	4	0.313	0.291	19.08	5.26	10.7	17.6	24.8	8.27	2.17	10.3	13.2	6.60	1.58	7.75	4.594	2.594	28.4	12.2	1.58
HSS 6 x 4 x 1/4	6	4	0.250	0.233	15.62	4.30	14.2	22.8	20.9	6.97	2.20	8.53	11.1	5.55	1.61	6.45	4.875	2.875	23.6	10.1	1.60
HSS 6 x 4 x 3/16	6	4	0.188	0.174	11.97	3.28	20.0	31.5	16.4	5.47	2.24	6.60	8.76	4.38	1.63	5.00	5.156	3.156	18.2	7.74	1.62
HSS 6 x 4 x 1/8	6	4	0.125	0.116	8.16	2.23	31.5	48.7	11.4	3.80	2.26	4.56	6.15	3.08	1.66	3.46	5.438	3.438	12.6	5.30	1.63
HSS 6 x 3 x 1/2	6	3	0.500	0.465	25.03	6.95	3.5	9.9	26.8	8.93	1.96	12.1	8.69	5.79	1.12	7.28	3.750	0.750	23.1	12.7	1.37
HSS 6 x 3 x 3/8	6	3	0.375	0.349	19.82	5.48	5.6	14.2	22.7	7.57	2.04	9.90	7.48	4.99	1.17	6.03	4.313	1.313	19.3	10.3	1.40
HSS 6 x 3 x 5/16	6	3	0.313	0.291	16.96	4.68	7.3	17.6	20.1	6.70	2.07	8.61	6.67	4.45	1.19	5.27	4.594	1.594	16.9	8.91	1.42
HSS 6 x 3 x 1/4	6	3	0.250	0.233	13.91	3.84	9.9	22.8	17.0	5.67	2.10	7.19	5.70	3.80	1.22	4.41	4.875	1.875	14.2	7.39	1.43
HSS 6 x 3 x 3/16	6	3	0.188	0.174	10.70	2.93	14.2	31.5	13.4	4.47	2.14	5.59	4.55	3.03	1.25	3.45	5.156	2.156	11.1	5.71	1.45
HSS 6 x 3 x 1/8	6	3	0.125	0.116	7.31	2.00	22.9	48.7	9.43	3.14	2.17	3.87	3.23	2.15	1.27	2.40	5.438	2.438	7.73	3.93	1.47
HSS 6 x 2 x 3/8	6	2	0.375	0.349	17.27	4.78	2.7	14.2	17.1	5.70	1.89	7.93	2.77	2.77	0.760	3.46	4.313	0.313	8.42	6.35	1.23
HSS 6 x 2 x 5/16	6	2	0.313	0.291	14.83	4.10	3.9	17.6	15.3	5.10	1.93	6.95	2.52	2.52	0.780	3.07	4.594	0.594	7.60	5.58	1.25
HSS 6 x 2 x 1/4	6	2	0.250	0.233	12.21	3.37	5.6	22.8	13.1	4.37	1.97	5.84	2.21	2.21	0.810	2.61	4.875	0.875	6.55	4.70	1.27

Atlas HSS Section Properties (Rectangle) - ASTM A500

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	tnom						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.	in.	in.4	in.3	
HSS 6 x 2 x 3/16	6	2	0.188	0.174	9.42	2.58	8.5	31.5	10.5	3.50	2.02	4.58	1.80	1.80	0.840	2.07	5.156	1.156	5.24	3.68	1.28
HSS 6 x 2 x 1/8	6	2	0.125	0.116	6.46	1.77	14.2	48.7	7.42	2.47	2.05	3.19	1.31	1.31	0.860	1.46	5.438	1.438	3.72	2.57	1.30
HSS 6 x 2 x 0.120	6	2	0.120	0.112	6.21	1.71	14.9	50.6	7.19	2.40	2.05	3.09	1.27	1.27	0.860	1.41	5.460	1.460	3.61	2.48	1.30
HSS 5 x 4 x 1/2	5	4	0.500	0.465	25.03	6.95	5.6	7.8	21.2	8.48	1.75	10.9	14.9	7.45	1.46	9.35	2.750	1.750	30.3	14.5	1.37
HSS 5 x 4 x 3/8	5	4	0.375	0.349	19.82	5.48	8.5	11.3	17.9	7.16	1.81	8.96	12.6	6.30	1.52	7.67	3.313	2.313	24.9	11.7	1.40
HSS 5 x 4 x 5/16	5	4	0.313	0.291	16.96	4.68	10.7	14.2	15.8	6.32	1.84	7.79	11.1	5.55	1.54	6.67	3.594	2.594	21.7	10.1	1.42
HSS 5 x 4 x 1/4	5	4	0.250	0.233	13.91	3.84	14.2	18.5	13.4	5.36	1.87	6.49	9.46	4.73	1.57	5.57	3.875	2.875	18.0	8.32	1.43
HSS 5 x 4 x 3/16	5	4	0.188	0.174	10.70	2.93	20.0	25.7	10.6	4.24	1.90	5.05	7.48	3.74	1.60	4.34	4.156	3.156	14.0	6.41	1.45
HSS 5 x 4 x 1/8	5	4	0.125	0.116	7.31	2.00	31.5	40.1	7.42	2.97	1.93	3.50	5.27	2.64	1.62	3.01	4.438	3.438	9.66	4.39	1.47
HSS 5 x 3 x 1/2	5	3	0.500	0.465	21.63	6.02	3.5	7.8	16.4	6.56	1.65	8.83	7.18	4.79	1.09	6.10	2.750	0.750	17.6	10.3	1.20
HSS 5 x 3 x 3/8	5	3	0.375	0.349	17.27	4.78	5.6	11.3	14.1	5.64	1.72	7.34	6.25	4.17	1.14	5.10	3.313	1.313	14.9	8.44	1.23
HSS 5 x 3 x 5/16	5	3	0.313	0.291	14.83	4.10	7.3	14.2	12.6	5.04	1.75	6.42	5.60	3.73	1.17	4.48	3.594	1.594	13.1	7.33	1.25
HSS 5 x 3 x 1/4	5	3	0.250	0.233	12.21	3.37	9.9	18.5	10.7	4.28	1.78	5.38	4.81	3.21	1.19	3.77	3.875	1.875	11.0	6.10	1.27
HSS 5 x 3 x 3/16	5	3	0.188	0.174	9.42	2.58	14.2	25.7	8.53	3.41	1.82	4.21	3.85	2.57	1.22	2.96	4.156	2.156	8.64	4.73	1.28
HSS 5 x 3 x 1/8	5	3	0.125	0.116	6.46	1.77	22.9	40.1	6.03	2.41	1.85	2.93	2.75	1.83	1.25	2.07	4.438	2.438	6.02	3.26	1.30
HSS 5 x 3 x 0.120	5	3	0.120	0.112	6.21	1.71	23.8	41.6	5.85	2.34	1.85	2.84	2.67	1.78	1.25	2.00	4.460	2.460	5.83	3.16	1.30
HSS 5 x 2.5 x 1/4	5	2.5	0.250	0.233	11.36	3.14	7.7	18.5	9.40	3.76	1.73	4.83	3.13	2.50	1.00	2.95	3.875	1.375	7.93	4.99	1.18
HSS 5 x 2.5 x 3/16	5	2.5	0.188	0.174	8.78	2.41	11.4	25.7	7.51	3.00	1.77	3.79	2.53	2.02	1.02	2.33	4.156	1.656	6.26	3.89	1.20
HSS 5 x 2.5 x 0.165	5	2.5	0.165	0.153	7.81	2.14	13.3	29.7	6.76	2.70	1.78	3.39	2.29	1.83	1.03	2.09	4.258	1.758	5.61	3.47	1.21
HSS 5 x 2.5 x 1/8	5	2.5	0.125	0.116	6.03	1.65	18.6	40.1	5.34	2.14	1.80	2.65	1.82	1.46	1.05	1.64	4.438	1.938	4.40	2.70	1.22
HSS 5 x 2 x 3/8	5	2	0.375	0.349	14.72	4.09	2.7	11.3	10.4	4.16	1.59	5.71	2.28	2.28	0.750	2.88	3.313	0.313	6.61	5.20	1.07
HSS 5 x 2 x 5/16	5	2	0.313	0.291	12.70	3.52	3.9	14.2	9.35	3.74	1.63	5.05	2.10	2.10	0.770	2.57	3.594	0.594	5.99	4.59	1.08
HSS 5 x 2 x 1/4	5	2	0.250	0.233	10.51	2.91	5.6	18.5	8.08	3.23	1.67	4.27	1.84	1.84	0.800	2.20	3.875	0.875	5.17	3.88	1.10
HSS 5 x 2 x 3/16	5	2	0.188	0.174	8.15	2.24	8.5	25.7	6.50	2.60	1.70	3.37	1.51	1.51	0.820	1.75	4.156	1.156	4.15	3.05	1.12
HSS 5 x 2 x 1/8	5	2	0.125	0.116	5.61	1.54	14.2	40.1	4.65	1.86	1.74	2.37	1.10	1.10	0.850	1.24	4.438	1.438	2.95	2.13	1.13
HSS 5 x 2 x 0.120	5	2	0.120	0.112	5.39	1.49	14.9	41.6	4.51	1.80	1.74	2.29	1.07	1.07	0.850	1.20	4.460	1.460	2.86	2.06	1.13
HSS 4 x 3 x 3/8	4	3	0.375	0.349	14.72	4.09	5.6	8.5	7.93	3.97	1.39	5.12	5.01	3.34	1.11	4.18	2.313	1.313	10.6	6.59	1.07
HSS 4 x 3 x 5/16	4	3	0.313	0.291	12.70	3.52	7.3	10.7	7.14	3.57	1.42	4.51	4.52	3.01	1.13	3.69	2.594	1.594	9.41	5.75	1.08
HSS 4 x 3 x 1/4	4	3	0.250	0.233	10.51	2.91	9.9	14.2	6.15	3.08	1.45	3.81	3.91	2.61	1.16	3.12	2.875	1.875	7.96	4.81	1.10
HSS 4 x 3 x 3/16	4	3	0.188	0.174	8.15	2.24	14.2	20.0	4.93	2.47	1.48	3.00	3.16	2.11	1.19	2.46	3.156	2.156	6.26	3.74	1.12
HSS 4 x 3 x 1/8	4	3	0.125	0.116	5.61	1.54	22.9	31.5	3.52	1.76	1.51	2.11	2.27	1.51	1.21	1.73	3.438	2.438	4.38	2.59	1.13
HSS 4 x 3 x 0.120	4	3	0.120	0.112	5.39	1.49	23.8	32.7	3.42	1.71	1.52	2.04	2.20	1.47	1.22	1.68	3.460	2.460	4.24	2.51	1.13
HSS 4 x 2.5 x 1/4	4	2.5	0.250	0.233	9.66	2.67	7.7	14.2	5.32	2.66	1.41	3.38	2.53	2.02	0.970	2.43	2.875	1.375	5.78	3.93	1.017
HSS 4 x 2.5 x 3/16	4	2.5	0.188	0.174	7.51	2.06	11.4	20.0	4.30	2.15	1.44	2.67	2.06	1.65	1.000	1.93	3.156	1.656	4.59	3.08	1.034
HSS 4 x 2.5 x 1/8	4	2.5	0.125	0.116	5.18	1.42	18.6	31.5	3.09	1.55	1.48	1.88	1.493	1.194	1.030	1.36	3.438	1.938	3.23	2.14	1.050
HSS 4 x 2 x 3/8	4	2	0.375	0.349	12.17	3.39	2.7	8.5	5.60	2.80	1.29	3.84	1.80	1.80	0.730	2.31	2.313	0.313	4.83	4.04	0.900
HSS 4 x 2 x 5/16	4	2	0.313	0.291	10.58	2.94	3.9	10.7	5.13	2.57	1.32	3.43	1.67	1.67	0.750	2.08	2.594	0.594	4.40	3.59	0.917
HSS 4 x 2 x 1/4	4	2	0.250	0.233	8.81	2.44	5.6	14.2	4.49	2.25	1.36	2.94	1.48	1.48	0.780	1.79	2.875	0.875	3.82	3.05	0.933
HSS 4 x 2 x 3/16	4	2	0.188	0.174	6.87	1.89	8.5	20.0	3.66	1.83	1.39	2.34	1.22	1.22	0.800	1.43	3.156	1.156	3.08	2.41	0.950
HSS 4 x 2 x 0.165	4	2	0.165	0.153	6.13	1.68	10.1	23.1	3.32	1.66	1.41	2.10	1.114	1.114	0.810	1.29	3.258	1.258	2.77	2.16	0.956
HSS 4 x 2 x 1/8	4	2	0.125	0.116	4.75	1.30	14.2	31.5	2.65	1.33	1.43	1.66	0.898	0.898	0.830	1.02	3.438	1.438	2.20	1.69	0.967
HSS 4 x 2 x 0.120	4	2	0.120	0.112	4.58	1.26	14.9	32.7	2.57	1.29	1.43	1.61	0.873	0.873	0.830	0.99	3.460	1.460	2.13	1.64	0.968
HSS 4 x 2 x 0.083	4	2	0.083	0.077	3.24	0.89	23.0	48.9	1.86	0.93	1.45	1.14	0.636	0.636	0.850	0.71	3.627	1.627	1.52	1.16	0.978
HSS 4 x 1.5 x 1/4	4	1.5	0.250	0.233	7.96	2.21	3.4	14.2	3.66	1.83	1.29	2.50	0.733	0.977	0.580	1.21	2.875	0.375	2.14	2.18	0.850
HSS 4 x 1.5 x 3/16	4	1.5	0.188	0.174	6.23	1.71	5.6	20.0	3.02	1.51	1.33	2.01	0.621	0.828	0.600	0.982	3.156	0.656	1.78	1.75	0.867
HSS 4 x 1.5 x 0.165	4	1.5	0.165	0.153	5.57	1.53	6.8	23.1	2.75	1.38	1.34	1.81	0.570	0.760	0.610	0.890	3.258	0.758	1.62	1.57	0.873
HSS 4 x 1.5 x 1/8	4	1.5	0.125	0.116	4.33	1.19	9.9	31.5	2.21	1.11	1.36	1.43	0.467	0.623	0.630	0.710	3.438	0.938	1.30	1.24	0.883
HSS 4 x 1.25 x 0.120	4	1.25	0.120	0.112	3.97	1.09	8.2	32.7	1.94	0.97	1.33	1.28	0.300	0.480	0.520	0.549	3.460	0.710	0.89	0.99	0.843

Atlas HSS Section Properties (Rectangle) - ASTM A500

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	tnom						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.	in.	in.4	in.3	
HSS 3.5 x 2.5 x 1/4	3.5	2.5	0.250	0.233	8.81	2.44	7.7	12.0	3.79	2.17	1.25	2.74	2.23	1.78	0.960	2.16	2.375	1.375	4.75	3.40	0.933
HSS 3.5 x 2.5 x 3/16	3.5	2.5	0.188	0.174	6.87	1.89	11.4	17.1	3.09	1.77	1.28	2.18	1.82	1.46	0.980	1.72	2.656	1.656	3.78	2.67	0.950
HSS 3.5 x 2.5 x 0.165	3.5	2.5	0.165	0.153	6.13	1.68	13.3	19.9	2.80	1.60	1.29	1.96	1.66	1.33	0.99	1.55	2.758	1.758	3.40	2.39	0.956
HSS 3.5 x 2.5 x 1/8	3.5	2.5	0.125	0.116	4.75	1.30	18.6	27.2	2.23	1.27	1.31	1.54	1.33	1.06	1.01	1.22	2.938	1.938	2.67	1.87	0.967
HSS 3.5 x 2 x 1/4	3.5	2	0.250	0.233	7.96	2.21	5.6	12.0	3.17	1.81	1.20	2.36	1.30	1.30	0.77	1.58	2.375	0.875	3.16	2.64	0.850
HSS 3.5 x 2 x 3/16	3.5	2	0.188	0.175	6.25	1.72	8.4	17.0	2.62	1.50	1.23	1.90	1.08	1.08	0.79	1.28	2.654	1.154	2.57	2.10	0.867
HSS 3.5 x 2 x 1/8	3.5	2	0.125	0.116	4.33	1.19	14.2	27.2	1.90	1.09	1.26	1.34	0.80	0.80	0.82	0.91	2.938	1.438	1.83	1.47	0.883
HSS 3.5 x 1.5 x 3/16	3.5	1.5	0.188	0.174	5.59	1.54	5.6	17.1	2.12	1.21	1.17	1.60	0.544	0.725	0.590	0.867	2.656	0.656	1.49	1.51	0.784
HSS 3.5 x 1.5 x 0.165	3.5	1.5	0.165	0.153	5.01	1.38	6.8	19.9	1.94	1.109	1.19	1.44	0.500	0.667	0.600	0.787	2.758	0.758	1.36	1.37	0.790
HSS 3.5 x 1.5 x 1/8	3.5	1.5	0.125	0.116	3.90	1.07	9.9	27.2	1.57	0.897	1.21	1.15	0.411	0.548	0.620	0.630	2.938	0.938	1.09	1.08	0.800
HSS 3 x 2.5 x 1/4	3	2.5	0.250	0.233	7.96	2.21	7.7	9.9	2.57	1.71	1.08	2.16	1.93	1.54	0.930	1.90	1.875	1.375	3.74	2.87	0.850
HSS 3 x 2.5 x 3/16	3	2.5	0.188	0.174	6.23	1.71	11.4	14.2	2.11	1.41	1.11	1.73	1.589	1.271	0.960	1.52	2.156	1.656	3.00	2.27	0.867
HSS 3 x 2.5 x 1/8	3	2.5	0.125	0.116	4.33	1.19	18.6	22.9	1.54	1.027	1.14	1.23	1.163	0.930	0.990	1.085	2.438	1.938	2.13	1.59	0.883
HSS 3 x 2 x 5/16	3	2	0.313	0.291	8.45	2.35	3.9	7.3	2.38	1.59	1.01	2.11	1.24	1.24	0.730	1.58	1.594	0.594	2.87	2.60	0.75
HSS 3 x 2 x 1/4	3	2	0.250	0.233	7.11	1.97	5.6	9.9	2.13	1.42	1.04	1.83	1.11	1.11	0.750	1.38	1.875	0.875	2.52	2.23	0.767
HSS 3 x 2 x 3/16	3	2	0.188	0.174	5.59	1.54	8.5	14.2	1.77	1.18	1.07	1.48	0.932	0.932	0.780	1.12	2.156	1.156	2.05	1.78	0.784
HSS 3 x 2 x 0.165	3	2	0.165	0.153	5.01	1.38	10.1	16.6	1.61	1.073	1.08	1.34	0.852	0.852	0.790	1.009	2.258	1.258	1.85	1.60	0.790
HSS 3 x 2 x 1/8	3	2	0.125	0.116	3.90	1.07	14.2	22.9	1.30	0.867	1.10	1.06	0.692	0.692	0.800	0.803	2.438	1.438	1.47	1.25	0.800
HSS 3 x 2 x 0.120	3	2	0.120	0.112	3.76	1.04	14.9	23.8	1.26	0.840	1.10	1.03	0.673	0.673	0.800	0.779	2.460	1.460	1.43	1.22	0.801
HSS 3 x 2 x 0.083	3	2	0.083	0.077	2.67	0.73	23.0	36.0	0.92	0.613	1.12	0.74	0.493	0.493	0.820	0.560	2.627	1.627	1.02	0.86	0.811
HSS 3 x 1.5 x 1/4	3	1.5	0.250	0.233	6.26	1.74	3.4	9.9	1.68	1.12	0.983	1.51	0.543	0.724	0.560	0.911	1.875	0.375	1.44	1.58	0.683
HSS 3 x 1.5 x 3/16	3	1.5	0.188	0.174	4.96	1.37	5.6	14.2	1.42	0.947	1.02	1.24	0.467	0.623	0.580	0.752	2.156	0.656	1.21	1.28	0.700
HSS 3 x 1.5 x 0.165	3	1.5	0.165	0.153	4.44	1.223	6.8	16.6	1.30	0.867	1.03	1.120	0.431	0.575	0.590	0.684	2.258	0.758	1.100	1.160	0.706
HSS 3 x 1.5 x 1/8	3	1.5	0.125	0.116	3.48	0.956	9.9	22.9	1.06	0.707	1.05	0.895	0.355	0.473	0.610	0.550	2.438	0.938	0.886	0.920	0.717
HSS 3 x 1.5 x 0.120	3	1.5	0.120	0.112	3.35	0.926	10.4	23.8	1.03	0.687	1.05	0.869	0.346	0.461	0.610	0.534	2.460	0.960	0.861	0.892	0.718
HSS 3 x 1.5 x 0.083	3	1.5	0.083	0.077	2.39	0.654	16.5	36.0	0.76	0.507	1.08	0.627	0.257	0.343	0.630	0.387	2.627	1.127	0.624	0.639	0.728
HSS 3 x 1 x 1/4	3	1	0.250	0.233	5.41	1.51	1.3	9.9	1.23	0.820	0.903	1.19	0.192	0.384	0.360	0.506	1.875	-	0.586	0.940	0.600
HSS 3 x 1 x 3/16	3	1	0.188	0.174	4.32	1.19	2.7	14.2	1.07	0.713	0.948	0.989	0.173	0.346	0.380	0.432	2.156	0.156	0.526	0.792	0.617
HSS 3 x 1 x 0.165	3	1	0.165	0.153	3.88	1.070	3.5	16.6	0.989	0.659	0.961	0.902	0.162	0.324	0.390	0.397	2.258	0.258	0.490	0.724	0.623
HSS 3 x 1 x 1/8	3	1	0.125	0.116	3.05	0.840	5.6	22.9	0.817	0.545	0.986	0.728	0.138	0.276	0.410	0.325	2.438	0.438	0.408	0.585	0.633
HSS 3 x 1 x 0.120	3	1	0.120	0.112	2.94	0.814	5.9	23.8	0.796	0.531	0.989	0.707	0.135	0.270	0.410	0.317	2.460	0.460	0.398	0.569	0.635
HSS 3 x 1 x 0.083	3	1	0.083	0.077	2.11	0.577	10.0	36.0	0.591	0.394	1.012	0.514	0.103	0.206	0.420	0.233	2.627	0.627	0.297	0.414	0.645
HSS 3 x 1 x 0.065	3	1	0.065	0.060	1.67	0.456	13.7	47.0	0.478	0.319	1.024	0.411	0.084	0.168	0.430	0.188	2.708	0.708	0.240	0.331	0.649
HSS 2.5 x 2 x 1/4	2.5	2	0.250	0.233	6.26	1.74	5.6	7.7	1.33	1.06	0.874	1.37	0.930	0.930	0.730	1.17	1.375	0.875	1.90	1.82	0.683
HSS 2.5 x 2 x 3/16	2.5	2	0.188	0.174	4.96	1.37	8.5	11.4	1.12	0.896	0.904	1.12	0.786	0.786	0.760	0.956	1.656	1.156	1.55	1.46	0.700
HSS 2.5 x 2 x 0.165	2.5	2	0.165	0.153	4.44	1.223	10.1	13.3	1.024	0.819	0.915	1.013	0.722	0.722	0.770	0.867	1.758	1.258	1.41	1.31	0.706
HSS 2.5 x 2 x 1/8	2.5	2	0.125	0.116	3.48	0.956	14.2	18.6	0.833	0.666	0.933	0.809	0.589	0.589	0.780	0.694	1.938	1.438	1.12	1.04	0.717
HSS 2.5 x 1.5 x 1/4	2.5	1.5	0.250	0.233	5.41	1.51	3.4	7.7	1.03	0.824	0.826	1.11	0.449	0.599	0.550	0.764	1.375	0.375	1.10	1.29	0.600
HSS 2.5 x 1.5 x 3/16	2.5	1.5	0.188	0.174	4.32	1.19	5.6	11.4	0.882	0.706	0.861	0.915	0.390	0.520	0.570	0.636	1.656	0.656	0.929	1.05	0.617
HSS 2.5 x 1.5 x 0.165	2.5	1.5	0.165	0.153	3.88	1.070	6.8	13.3	0.813	0.650	0.872	0.833	0.361	0.481	0.580	0.581	1.758	0.758	0.850	0.954	0.623
HSS 2.5 x 1.5 x 0.134	2.5	1.5	0.134	0.125	3.25	0.897	9.0	17.0	0.706	0.565	0.887	0.712	0.316	0.421	0.590	0.498	1.897	0.897	0.729	0.809	0.631
HSS 2.5 x 1.5 x 1/8	2.5	1.5	0.125	0.116	3.05	0.840	9.9	18.6	0.668	0.534	0.892	0.671	0.300	0.400	0.600	0.469	1.938	0.938	0.687	0.759	0.633
HSS 2.5 x 1.5 x 0.120	2.5	1.5	0.120	0.112	2.94	0.814	10.4	19.3	0.651	0.521	0.894	0.652	0.292	0.389	0.600	0.456	1.960	0.960	0.668	0.737	0.635
HSS 2.5 x 1.5 x 0.083	2.5	1.5	0.083	0.077	2.11	0.577	16.5	29.5	0.482	0.386	0.914	0.473	0.218	0.291	0.610	0.332	2.127	1.127	0.485	0.529	0.645
HSS 2.5 x 1 x 3/16	2.5	1	0.188	0.175	3.69	1.024	2.7	11.3	0.648	0.518	0.795	0.715	0.143	0.286	0.370	0.361	1.654	0.154	0.414	0.651	0.533
HSS 2.5 x 1 x 0.165	2.5	1	0.165	0.153	3.32	0.917	3.5	13.3	0.602	0.482	0.810	0.654	0.134	0.268	0.380	0.332	1.758	0.258	0.385	0.594	0.540
HSS 2.5 x 1 x 1/8	2.5	1	0.125	0.116	2.63	0.724	5.6	18.6	0.503	0.402	0.834	0.532	0.115	0.230	0.400	0.274	1.938	0.438	0.322	0.483	0.550

Atlas HSS Section Properties (Rectangle) - ASTM A500

Shape	Shape			Design Wall Thickness, t	Nominal Wt	Area, A	b/t	h/t	Axis X-X				Axis Y-Y				Workable Flat		Torsion		Surface Area
	H	B	tnom						I	S	r	Z	I	S	r	Z	Depth	Width	J	C	
	in	in	in						in.4	in.3	in.	in.3	in.4	in.3	in.	in.3	in.	in.	in.4	in.3	
HSS 2 x 1.5 x 3/16	2	1.5	0.188	0.174	3.68	1.02	5.6	8.5	0.495	0.495	0.697	0.639	0.313	0.417	0.550	0.521	1.156	0.656	0.664	0.822	0.534
HSS 2 x 1.5 x 0.165	2	1.5	0.165	0.153	3.32	0.917	6.8	10.1	0.460	0.460	0.708	0.585	0.291	0.388	0.560	0.478	1.258	0.758	0.609	0.747	0.540
HSS 2 x 1.5 x 1/8	2	1.5	0.125	0.116	2.63	0.724	9.9	14.2	0.383	0.383	0.727	0.475	0.244	0.325	0.580	0.389	1.438	0.938	0.496	0.599	0.550
HSS 2 x 1 x 3/16	2	1	0.188	0.174	3.04	0.845	2.7	8.5	0.350	0.350	0.644	0.480	0.112	0.224	0.360	0.288	1.156	0.156	0.301	0.505	0.450
HSS 2 x 1 x 0.165	2	1	0.165	0.153	2.76	0.764	3.5	10.1	0.329	0.329	0.656	0.444	0.107	0.214	0.370	0.268	1.258	0.258	0.283	0.465	0.456
HSS 2 x 1 x 1/8	2	1	0.125	0.116	2.20	0.608	5.6	14.2	0.280	0.280	0.679	0.366	0.092	0.184	0.390	0.223	1.438	0.438	0.238	0.380	0.467
HSS 1.5 x 1 x 0.120	1.5	1	0.120	0.122	1.72	0.478	5.9	10.4	0.130	0.173	0.522	0.223	0.068	0.136	0.380	0.167	0.960	0.460	0.153	0.271	0.385
HSS 1.5 x 1 x 0.083	1.5	1	0.083	0.077	1.26	0.346	10.0	16.5	0.101	0.135	0.540	0.168	0.054	0.108	0.400	0.127	1.127	0.627	0.116	0.201	0.395
HSS 1.5 x 1 x 1/8	1.5	1	0.065	0.060	1.01	0.276	13.7	22.0	0.083	0.111	0.548	0.137	0.044	0.088	0.400	0.103	1.208	0.708	0.095	0.162	0.399