



**serviacero**  
comercial

• Hollow Structural Steel HSS



Dimensions and Properties														
Nominal dimensions			Weight	Real Thickness	b/t	h/t	Area	I	S	r	Z	Torsion		Area sup. per ML
H	B	Thickness										J	C	
in	in	in	kg/m	in			cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>3</sup>	cm <sup>4</sup>	cm <sup>3</sup>	m <sup>2</sup>
4	4	1/2	32.20	0.465	5.6	5.6	38.84	495.32	97.18	3.56	120.61	874.09	183.54	0.37
		3/8	25.71	0.349	8.47	8.47	30.84	424.56	83.90	3.71	101.93	728.40	149.61	0.37
		5/16	22.07	0.291	10.80	10.80	26.39	379.60	74.73	3.78	89.80	636.83	129.46	0.38
5	5	1/2	42.32	0.465	7.75	7.75	50.84	1078.04	170.43	4.60	208.12	1856.39	306.44	0.47
		3/8	33.2	0.349	11.30	11.30	39.87	903.22	141.91	4.75	170.43	1505.60	244.17	0.48
		5/16	28.40	0.291	14.20	14.20	33.94	790.84	124.54	4.83	148.14	1294.48	209.75	0.48
		3/16	18.00	0.176	25.90	25.90	21.10	522.00	82.20	4.97	96.10	7810.00	132.00	0.49
6	6	5/8	62.96	0.581	7.32	7.32	75.48	2289.27	299.88	5.51	371.99	3954.64	547.33	0.56
		1/2	52.46	0.465	9.90	9.90	62.84	2006.24	263.83	5.64	319.55	3375.64	460.48	0.57
		3/8	40.90	0.349	14.20	14.20	48.84	1639.95	214.67	5.79	255.64	2688.86	362.15	0.58
		5/16	34.74	0.291	17.60	17.60	41.42	1427.67	186.81	5.87	221.23	2305.92	309.72	0.59
		1/4	28.31	0.233	22.80	22.80	33.68	1190.42	156.00	5.94	181.90	1893.85	252.36	0.59
		3/16	21.80	0.214	31.60	31.60	25.50	923.00	121.00	6.01	141.0	1456.81	192.00	0.59
8	8	5/8	88.30	0.581	10.80	10.80	105.81	6076.98	598.13	7.59	724.31	10156.05	1035.66	0.76
		1/2	72.71	0.465	14.20	14.20	87.10	5202.89	509.64	7.72	607.96	8491.12	858.68	0.77
		3/8	56.10	0.349	19.90	19.90	67.10	4141.50	408.04	7.87	478.50	6659.7	666.95	0.78
		5/16	47.39	0.291	24.50	24.50	56.39	3558.78	350.68	7.95	409.68	5660.75	565.35	0.79
		1/4	38.43	0.233	31.40	31.40	45.68	2934.43	288.41	8.03	334.30	4620.17	458.84	0.79
		3/16	29.40	0.174	43.20	43.20	34.50	2260.00	222.00	8.09	256.00	3521.32	347.0	0.80
10	10	5/8	113.62	0.581	14.20	14.20	135.48	12653.44	996.33	9.65	1191.34	20728.32	1671.48	0.97
		1/2	92.97	0.465	18.50	18.50	110.97	10655.52	839.02	9.80	989.78	17148.73	1379.79	0.98
		3/8	71.30	0.349	25.70	25.70	85.16	8407.87	660.4	9.96	770.19	13277.78	1061.88	0.98
		5/16	60.06	0.291	31.40	31.40	71.61	7159.18	563.72	10.01	653.84	11238.25	896.37	0.99
		1/4	48.57	0.233	40.00	40.00	57.68	5868.86	462.12	10.08	532.58	9157.09	725.95	1.00
		3/16	37.10	0.174	54.70	54.70	43.40	4480.00	353.00	10.20	405.00	6951.06	548.0	1.00
12	12	5/8	138.94	0.581	17.60	17.60	165.81	22809.48	1497.78	11.73	1769.80	36878.10	2474.45	1.17
		1/2	113.23	0.465	22.80	22.80	134.84	19021.78	1248.69	11.89	1461.73	30301.65	2015.61	1.18
		3/8	86.48	0.349	31.40	31.40	102.58	14859.46	975.03	12.01	1130.71	23350.58	1548.58	1.19
		5/16	72.73	0.291	38.30	38.30	86.45	12653.44	829.19	12.09	957.00	19687.75	1304.41	1.19
		1/4	58.68	0.233	48.60	48.60	69.68	10322.54	676.79	12.17	776.75	15941.66	1053.69	1.20
14	14	5/8	164.23	0.581	21.10	21.10	196.00	37400.00	2100.00	13.80	2480.00	55900.00	3430.00	1.37
		1/2	133.50	0.465	27.10	27.10	159.00	30900.00	1740.00	14.00	2030.00	46300.00	2780.00	1.38
		3/8	101.40	0.349	37.00	37.00	121.00	24100.00	1360.00	14.10	1570.00	36100.00	2140.00	1.39
		5/16	85.00	0.291	45.10	45.10	102.00	20400.00	1150.00	14.20	1320.00	30600.00	1790.00	1.40
16	16	1/2	153.70	0.465	31.40	31.40	183.00	46900.00	2310.00	16.00	2680.00	70300.00	3670.00	1.59
		3/8	116.60	0.349	42.70	42.70	139.00	36500.00	1790.00	16.20	2070.00	54700.00	2810.00	1.60
		5/16	97.60	0.291	51.90	51.90	117.00	30800.00	1510.00	16.20	1740.00	46100.00	2350.00	1.60



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Dimensions and Properties																	
Nominal dimensions			Weight	Real Thickness	b/t	h/t	Area	Axis X-X				Axis Y-Y				Torsion	Area sup. per ML
H	B	Thickness						I	S	r	Z	I	S	r	Z		
in	in	in	kg/m	in	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>3</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>3</sup>	cm <sup>3</sup>	m <sup>2</sup>		
5	3	1/4	18.30	0.233	9.90	18.50	21.70	445.00	70.10	4.53	88.00	200.00	52.40	3.03	61.60	100.00	0.39
		3/16	14.10	0.174	14.30	25.90	16.60	354.00	55.70	4.61	68.70	160.00	41.90	3.10	48.30	77.10	0.39
6	4	1/2	42.27	0.465	5.60	9.90	50.84	1411.02	185.10	5.26	234.34	736.73	145.19	3.81	175.34	291.69	0.47
		3/8	33.34	0.349	8.47	14.20	39.87	1177.93	154.37	5.44	191.73	620.18	122.08	3.94	143.55	232.7	0.48
		5/16	28.3	0.277	10.7	17.60	34.00	1030.00	136.00	5.51	169.00	548.00	108.00	4.01	127.00	201.00	0.48
		1/4	23.22	0.233	14.20	22.80	27.68	865.76	113.73	5.59	138.47	462.02	90.78	4.09	104.55	165.51	0.49
8	3	1/4	26.00	0.233	9.90	31.40	30.70	1470.00	145.00	6.93	188.00	311.00	81.60	3.18	93.20	163.00	0.54
		3/16	19.90	0.195	14.30	43.20	23.30	1150.00	113.00	7.03	145.00	246.00	64.60	3.25	72.30	125.00	0.54
8	4	1/2	52.40	0.465	5.60	14.20	62.84	2984.38	293.33	6.88	378.54	982.31	193.37	3.96	227.78	399.84	0.57
		3/8	40.93	0.349	8.47	19.90	48.84	2439.12	240.89	7.06	304.80	815.81	160.27	4.09	185.17	316.27	0.58
		1/4	28.28	0.233	14.20	31.40	33.68	1768.98	173.70	7.24	216.31	599.37	117.99	4.22	133.23	222.86	0.59
		3/16	21.80	0.214	20.10	43.20	25.50	1370.00	135.00	7.33	167.00	469.00	92.30	4.28	103.00	170.00	0.59
8	6	1/2	62.52	0.465	9.90	14.20	74.84	4083.23	401.48	7.39	493.25	2601.45	340.85	5.89	403.12	629.26	0.67
		3/8	48.53	0.349	14.20	19.90	57.87	3292.39	324.46	7.54	391.65	2106.13	276.94	6.02	321.19	491.61	0.68
		1/4	33.34	0.233	22.80	31.40	39.68	2351.71	231.06	7.70	275.30	1510.92	198.28	6.17	226.14	340.85	0.69
		3/16	25.60	0.174	31.60	43.20	30.00	1810.00	178.00	7.77	211.00	1170.00	153.00	6.24	174.00	259.00	0.70
10	4	1/4	33.34	0.233	14.20	40.00	39.68	3100.92	244.17	8.84	309.72	736.73	145.03	4.32	161.90	280.22	0.69
		3/16	25.60	0.251	20.10	54.70	30.00	2390.00	189.00	8.93	238.00	574.00	113.00	4.37	125.00	213.00	0.70
10	6	1/2	72.79	0.465	9.90	18.50	87.10	7117.56	562.08	9.07	699.73	3192.50	419.51	6.07	488.33	798.05	0.77
		3/8	56.12	0.349	14.20	25.70	67.10	5702.37	447.37	9.22	550.61	2568.15	337.57	6.20	385.10	621.07	0.78
		1/4	38.4	0.233	22.80	40.00	45.68	4024.96	316.27	9.37	383.46	1831.42	240.89	6.32	270.39	427.70	0.79
		3/16	29.40	0.289	31.60	54.70	34.50	3090.00	243.00	9.47	293.00	1410.00	185.00	6.40	207.00	325.00	0.80
10	8	1/2	82.91	0.435	14.20	18.50	98.71	8907.35	699.73	9.47	843.93	6285.09	617.79	7.98	722.67	1088.10	0.87
		3/8	63.71	0.349	19.90	25.70	76.13	7034.31	553.88	9.63	660.4	4994.78	491.61	8.10	566.99	840.66	0.88
		1/4	43.46	0.233	31.40	40.00	51.68	4953.15	390.01	9.78	458.84	3521.32	345.77	8.26	393.29	576.82	0.89
12	6	1/2	82.91	0.465	9.90	22.80	98.71	11279.87	740.70	10.69	934.06	3787.71	496.53	6.2	571.91	966.84	0.87
		3/8	63.71	0.349	14.20	31.40	76.13	8948.98	586.66	10.87	730.86	3034.33	398.21	6.32	450.64	750.53	0.88
		1/4	43.46	0.233	22.80	48.60	51.68	6285.09	412.95	11.02	508.00	2156.08	283.5	6.45	314.64	516.19	0.89
12	8	1/2	93.03	0.465	14.20	22.80	110.97	13860.51	909.48	11.18	1111.04	7367.30	727.59	8.15	839.02	1317.52	0.98
		3/8	71.30	0.349	19.90	31.40	85.16	10905.26	716.11	11.35	865.24	5827.24	575.19	8.31	653.84	1016.00	0.98
		1/4	48.53	0.233	31.40	48.60	57.68	7617.04	501.44	11.51	598.13	4104.04	403.12	8.43	453.92	696.45	1.00