

HSS Steel Pipe Conversion Factors



Member Size (Inches)	Wall Thickness (Inches)	A/P Value	Metric Designation (millimeters)	M/D Value	Hp/A Value	Square Ft. / Lin. Foot	Square M. / Lin. Meter
20.00	1/2	0.49	508 x 12.4	93	85	5.23	1.60
	3/8	0.37	9.3	70	112	5.23	1.60
18.00	1/2	0.49	457 x 12.3	93	85	4.71	1.44
	3/8	0.37	9.3	70	112	4.71	1.44
16.00	1/2	0.48	406 x 12.3	91	87	4.19	1.28
	7/16	0.43	10.8	82	97	4.19	1.28
	3/8	0.37	9.3	70	112	4.19	1.28
	5/16	0.31	7.8	59	134	4.19	1.28
14.00	1/2	0.48	356 x 12.2	91	87	3.66	1.12
	3/8	0.36	9.3	68	116	3.66	1.12
	5/16	0.31	7.8	59	134	3.66	1.12
12.75	1/2	0.48	324 x 12.2	91	87	3.34	1.02
	3/8	0.36	9.2	68	116	3.34	1.02
	1/4	0.25	6.2	48	166	3.34	1.02
12.50	5/8	0.59	318 x 15.1	112	71	3.27	1.00
	1/2	0.48	12.2	91	87	3.27	1.00
	3/8	0.36	9.2	68	116	3.27	1.00
	5/16	0.30	7.7	57	139	3.27	1.00
	1/4	0.25	6.2	48	166	3.27	1.00
	3/16	0.18	4.7	34	231	3.27	1.00
11.25	5/8	0.59	286 x 15.1	112	71	2.94	0.90
	1/2	0.48	12.1	91	87	2.94	0.90
	3/8	0.36	9.2	68	116	2.94	0.90
	5/16	0.30	7.7	57	139	2.94	0.90
	1/4	0.24	6.2	46	173	2.94	0.90
	3/16	0.18	4.7	34	231	2.94	0.90
10.75	1/2	0.48	273 x 12.1	91	87	2.81	0.86
	1/4	0.24	6.2	46	173	2.81	0.86
10.00	5/8	0.59	254 x 14.9	112	71	2.62	0.80
	1/2	0.48	12.1	91	87	2.62	0.80
	3/8	0.36	9.2	68	116	2.62	0.80
	5/16	0.30	7.7	57	139	2.62	0.80
	3/16	0.18	4.7	34	231	2.62	0.80
9.625	1/2	0.47	244 x 12.0	89	89	2.52	0.77
	3/8	0.36	9.2	68	116	2.52	0.77
	5/16	0.30	7.7	57	139	2.52	0.77
	1/4	0.24	6.2	46	173	2.52	0.77
	3/16	0.18	4.7	34	231	2.52	0.77
8.75	1/2	0.47	222 x 12.0	89	89	2.29	0.70
	3/8	0.36	9.1	68	116	2.29	0.70
	5/16	0.30	7.7	57	139	2.29	0.70

The A/P ratios herein were obtained utilizing the formula as listed in the UL Design. The square foot factors are theoretical based on the dimensions of the shape.

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8.75	1/4	0.24	222 x 6.2	46	173	2.29	0.70
	3/16	0.18	4.7	34	231	2.29	0.70
8.625	1/2	0.47	219 x 12.0	89	89	2.26	0.69
	3/8	0.36	9.1	68	116	2.26	0.69
	5/16	0.30	7.6	57	139	2.26	0.69
	1/4	0.24	6.2	46	173	2.26	0.69
	3/16	0.18	4.7	34	231	2.26	0.69
7.500	1/2	0.47	191 x 11.9	89	89	1.96	0.60
	3/8	0.36	9.0	68	116	1.96	0.60
	5/16	0.30	7.6	57	139	1.96	0.60
	1/4	0.24	6.1	46	173	1.96	0.60
	3/16	0.18	4.6	34	231	1.96	0.60
7.00	1/2	0.46	178 x 11.8	87	90	1.83	0.56
	3/8	0.35	9.0	67	119	1.83	0.56
	5/16	0.30	7.6	57	139	1.83	0.56
	1/4	0.24	6.1	46	173	1.83	0.56
	3/16	0.18	4.6	34	231	1.83	0.56
6.875	1/2	0.46	175 x 11.8	87	90	1.80	0.55
	3/8	0.35	9.0	67	119	1.80	0.55
	5/16	0.30	7.6	57	139	1.80	0.55
	1/4	0.24	6.0	46	173	1.80	0.55
	3/16	0.18	4.6	34	231	1.80	0.55
6.625	1/2	0.46	168 x 11.7	87	90	1.73	0.53
	7/16	0.41	10.4	78	101	1.73	0.53
	3/8	0.35	9.0	67	119	1.73	0.53
	5/16	0.30	7.6	57	139	1.73	0.53
	1/4	0.24	6.1	46	173	1.73	0.53
6.125	3/16	0.18	4.6	34	231	1.73	0.53
	1/2	0.46	156 x 11.7	87	90	1.60	0.49
	3/8	0.35	8.9	67	119	1.60	0.49
	5/16	0.30	7.5	57	139	1.60	0.49
	1/4	0.24	6.1	46	173	1.60	0.49
6.00	3/16	0.18	4.6	34	231	1.60	0.49
	1/2	0.46	152 x 11.6	87	90	1.57	0.48
	3/8	0.35	8.9	67	119	1.57	0.48
	5/16	0.30	7.5	57	139	1.57	0.48
	1/4	0.24	6.1	46	173	1.57	0.48
5.563	3/16	0.18	4.6	34	231	1.57	0.48
	3/8	0.35	141 x 8.9	67	119	1.46	0.44
5.50	3/16	0.18	4.6	34	231	1.46	0.44
	1/2	0.45	140 x 11.5	86	92	1.44	0.44
	3/8	0.35	8.9	67	119	1.44	0.44

The A/P ratios herein were obtained utilizing the formula as listed in the UL Design. The square foot factors are theoretical based on the dimensions of the shape.

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5.00	1/2	0.45	127 x 11.4	86	92	1.31	0.40
	3/8	0.35	8.8	67	119	1.31	0.40
	5/16	0.29	7.4	55	143	1.31	0.40
	1/4	0.24	6.0	46	173	1.31	0.40
	3/16	0.18	4.6	34	231	1.31	0.40
4.00	5/16	0.29	102 x 7.3	55	143	1.05	0.32
	1/4	0.23	6.0	44	181	1.05	0.32
	3/16	0.18	4.5	34	231	1.05	0.32
3.50	5/16	0.28	89 x 7.2	53	149	0.92	0.28
	1/4	0.23	5.9	44	181	0.92	0.28
	3/16	0.18	4.5	34	231	0.92	0.28
3.00	1/4	0.23	76 x 5.8	44	181	0.79	0.24
	3/16	0.18	4.5	34	231	0.79	0.24
2.875	1/4	0.23	73 x 5.8	44	181	0.75	0.23
2.50	1/4	0.23	64 x 5.7	44	181	0.65	0.20

The A/P ratios herein were obtained utilizing the formula as listed in the UL Design. The square foot factors are theoretical based on the dimensions of the shape.