

Square Tube 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
30 x 30	5/8	0.61	762 x 762 x 15.9	121.2	64.3	10.00	3.05
28 x 28	5/8	0.61	711 x 711 x 15.9	120.9	64.4	9.33	2.84
26 x 26	5/8	0.61	660 x 660 x 15.9	120.5	64.6	8.66	2.64
24 x 24	5/8	0.61	610 x 610 x 15.9	120.1	64.8	8.00	2.44
	1/2	0.49	x 12.7	96.9	80.4	8.00	2.44
	3/8	0.37	x 9.5	73.4	106.1	8.00	2.44
22 x 22	5/8	0.61	559 x 559 x 15.9	119.6	65.1	7.33	2.23
	1/2	0.49	x 12.7	96.6	80.6	7.33	2.23
	3/8	0.37	x 9.5	73.2	106.4	7.33	2.23
20 x 20	5/8	0.61	508 x 508 x 15.9	119	65.4	6.66	2.03
	1/2	0.49	x 12.7	96.3	80.9	6.66	2.03
	3/8	0.37	x 9.5	73	106.7	6.66	2.03
18 x 18	5/8	0.60	457 x 457x 15.9	118.3	65.8	6.00	1.83
	1/2	0.49	x 12.7	95.8	81.3	6.00	1.83
	3/8	0.37	x 9.5	72.7	107.1	6.00	1.83
16 x 16	5/8	0.60	406 x 406 x 15.9	117.4	66.3	5.33	1.62
	1/2	0.49	x 12.7	95.2	81.8	5.33	1.62
	3/8	0.37	x 9.5	72.4	107.6	5.33	1.62
	5/16	0.31	x 7.9	60.7	128.3	5.33	1.62
14 x 14	5/8	0.60	356 x 356 x 15.9	116.3	67.0	4.66	1.42
	1/2	0.48	x 12.7	94.5	82.4	4.66	1.42
	3/8	0.36	x 9.5	72	108.2	4.66	1.42
	5/16	0.31	x 7.9	60.4	128.9	4.66	1.42
12 x 12	5/8	0.59	305 x 305 x 15.9	114.7	67.9	4.00	1.22
	1/2	0.48	x 12.7	93	83.7	4.00	1.22
	3/8	0.36	x 9.5	71.4	109.1	4.00	1.22
	5/16	0.30	x 7.9	60.1	129.6	4.00	1.22
	1/4	0.24	x 6.4	48.8	159.6	4.00	1.22
10 x 10	5/8	0.59	254 x 254 x 15.9	112.6	69.2	3.33	1.01
	1/2	0.48	x 12.7	92.1	84.6	3.33	1.01
	3/8	0.36	x 9.5	70	111.3	3.33	1.01
	5/16	0.30	x 7.9	59.5	130.9	3.33	1.01
	1/4	0.24	x 6.4	48.1	161.9	3.33	1.01
	3/16	0.18	x 4.8	36.5	213.4	3.33	1.01
8 x 8	5/8	0.58	203 x 203 x 15.9	108	72.1	2.66	0.81
	1/2	0.47	x 12.7	89	87.5	2.66	0.81
	3/8	0.36	x 9.5	69.5	112.1	2.66	0.81
	5/16	0.30	x 7.9	58.7	132.7	2.66	0.81
	1/4	0.24	x 6.4	47	165.7	2.66	0.81
	3/16	0.18	x 4.8	36.2	215.1	2.66	0.81
7 x 7	1/2	0.46	178 x 178 x 12.7	88.6	87.9	2.33	0.71
	3/8	0.35	x 9.5	68.7	113.4	2.33	0.71
	5/16	0.30	x 7.9	58.1	134.0	2.33	0.71
	1/4	0.24	x 6.4	47.2	165.0	2.33	0.71
	3/16	0.18	x 4.8	36	216.3	2.33	0.71

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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6 x 6	1/2	0.46	152 x 152 x 12.7	86.6	89.9	2.00	0.61
	3/8	0.35	x 9.5	67.6	115.2	2.00	0.61
	5/16	0.30	x 7.9	57.4	135.7	2.00	0.61
	1/4	0.24	x 6.4	46	169.3	2.00	0.61
	3/16	0.18	x 4.8	35.7	218.2	2.00	0.61
5 x 5	1/2	0.45	127 x 127 x 12.7	83.9	92.8	1.66	0.51
	3/8	0.35	x 9.5	66	118.0	1.66	0.51
	5/16	0.29	x 7.9	56.3	138.3	1.66	0.51
	1/4	0.24	x 6.4	46.1	168.9	1.66	0.51
	3/16	0.18	x 4.8	35.3	220.6	1.66	0.51
4 x 4	1/2	0.44	102 x 102 x 12.7	79.8	97.6	1.33	0.41
	3/8	0.34	x 9.5	63.7	122.3	1.33	0.41
	5/16	0.29	x 7.9	54.7	142.4	1.33	0.41
	1/4	0.23	x 6.4	45	173.1	1.33	0.41
	3/16	0.18	x 4.8	35	222.5	1.33	0.41

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