

Rectangular 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
36 x 24	1/2	0.49	914 x 610 x 12.7	97.4	81.2	10.00	3.05
30 x 24	1/2	0.49	762 x 610 x 12.7	97.4	81.2	9.00	2.74
	3/8	0.37	x 9.5	73.8	107.1	9.00	2.74
	5/16	0.31	x 7.9	61.4	128.7	9.00	2.74
28 x 24	1/2	0.49	711 x 610 x 12.7	97.4	81.2	8.66	2.64
	3/8	0.37	x 9.5	73.8	107.1	8.66	2.64
	5/16	0.31	x 7.9	61.4	128.7	8.66	2.64
26 x 24	1/2	0.49	660 x 610 x 12.7	97.4	81.2	8.33	2.54
	3/8	0.37	x 9.5	73.2	108.0	8.33	2.54
	5/16	0.31	x 7.9	61.4	128.7	8.33	2.54
24 x 22	1/2	0.49	610 x 559 x 12.7	96.8	81.7	7.66	2.33
	3/8	0.37	x 9.5	73.2	108.0	7.66	2.33
	5/16	0.31	x 7.9	61.4	128.7	7.66	2.33
22 x 20	1/2	0.49	559 x 508 x 12.7	96.2	82.2	7.00	2.13
	3/8	0.37	x 9.5	73.2	108.0	7.00	2.13
	5/16	0.31	x 7.9	61.4	128.7	7.00	2.13
20 x 18	1/2	0.49	508 x 457 x 12.7	96.2	82.2	6.33	1.93
	3/8	0.37	x 9.5	72.6	108.9	6.33	1.93
	5/16	0.31	x 7.9	60.8	130.0	6.33	1.93
20 x 12	1/2	0.48	508 x 305 x 12.7	95	83.2	5.33	1.62
	3/8	0.37	x 9.5	72.6	108.9	5.33	1.62
	5/16	0.31	x 7.9	60.8	130.0	5.33	1.62
20 x 8	1/2	0.48	508 x 203 x 12.7	94.4	83.7	4.66	1.42
	3/8	0.36	x 9.5	72	109.8	4.66	1.42
	5/16	0.31	x 7.9	60.2	131.3	4.66	1.42
20 x 4	1/2	0.48	508 x 102 x 12.7	93.2	84.8	4.00	1.22
	3/8	0.36	x 9.5	71.4	110.7	4.00	1.22
	5/16	0.30	x 7.9	60.2	131.3	4.00	1.22
18 x 12	1/2	0.48	457 x 305 x 12.7	95	83.2	5.00	1.52
	3/8	0.37	x 9.5	72	109.8	5.00	1.52
	5/16	0.31	x 7.9	60.8	130.0	5.00	1.52
18 x 6	1/2	0.48	457 x 152 x 12.7	93.2	84.8	4.00	1.22
	3/8	0.36	x 9.5	71.4	110.7	4.00	1.22
	5/16	0.30	x 7.9	60.2	131.3	4.00	1.22
	1/4	0.24	x 6.4	48.4	163.3	4.00	1.22
16 x 12	1/2	0.48	406 x 305 x 12.7	94.4	83.7	4.66	1.42
	3/8	0.36	x 9.5	72	109.8	4.66	1.42
	5/16	0.31	x 7.9	60.2	131.3	4.66	1.42
16 x 8	1/2	0.48	406 x 203 x 12.7	93.2	84.8	4.00	1.22
	3/8	0.36	x 9.5	71.4	110.7	4.00	1.22
	5/16	0.30	x 7.9	60.2	131.3	4.00	1.22
16 x 4	1/2	0.48	406 x 102 x 12.7	92	85.9	3.33	1.01
	3/8	0.35	x 9.5	67.1	117.8	3.33	1.01
	5/16	0.30	x 7.9	59.6	132.6	3.33	1.01

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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14 x 10	5/8	0.59	356 x 254 x 15.9	112.1	70.5	4.00	1.22
	1/2	0.48	x 12.7	93.2	84.8	4.00	1.22
	3/8	0.36	x 9.5	71.4	110.7	4.00	1.22
	5/16	0.30	x 7.9	60.2	131.3	4.00	1.22
14 x 6	1/2	0.48	356 x 152 x 12.7	92	85.9	3.33	1.01
	3/8	0.36	x 9.5	70.8	111.7	3.33	1.01
	5/16	0.30	x 7.9	59.6	132.6	3.33	1.01
	1/4	0.24	x 6.4	48.4	163.3	3.33	1.01
14 x 4	1/2	0.47	356 x 102 x 12.7	91.5	86.4	3.00	0.91
	3/8	0.36	x 9.5	70.2	112.6	3.00	0.91
	5/16	0.30	x 7.9	59	134.0	3.00	0.91
	1/4	0.24	x 6.4	47.8	165.4	3.00	0.91
12 x 8	5/8	0.59	305 x 203 x 15.9	112.7	70.1	3.33	1.01
	1/2	0.48	x 12.7	92	85.9	3.33	1.01
	3/8	0.36	x 9.5	71	111.3	3.33	1.01
	5/16	0.30	x 7.9	59.6	132.6	3.33	1.01
	1/4	0.24	x 6.4	48.4	163.3	3.33	1.01
	3/16	0.18	x 4.8	36.6	216.0	3.33	1.01
12 x 6	5/8	0.58	305 x 152 x 15.9	111	71.2	3.00	0.91
	1/2	0.47	x 12.7	91.5	86.4	3.00	0.91
	3/8	0.36	x 9.5	70.2	112.6	3.00	0.91
	5/16	0.30	x 7.9	59	134.0	3.00	0.91
	1/4	0.24	x 6.4	48.8	162.0	3.00	0.91
	3/16	0.18	x 4.8	36.6	216.0	3.00	0.91
12 x 4	5/8	0.58	305 x 102 x 15.9	109.2	72.4	2.66	0.81
	1/2	0.47	x 12.7	90.3	87.5	2.66	0.81
	3/8	0.36	x 9.5	69.6	113.6	2.66	0.81
	5/16	0.30	x 7.9	59	134.0	2.66	0.81
	1/4	0.24	x 6.4	47.8	165.4	2.66	0.81
	3/16	0.18	x 4.8	36	219.6	2.66	0.81
10 x 8	5/8	0.58	254 x 203 x 15.9	110.2	71.7	3.00	0.91
	1/2	0.47	x 12.7	91.5	86.4	3.00	0.91
	3/8	0.36	x 9.5	70.2	112.6	3.00	0.91
	5/16	0.30	x 7.9	59	134.0	3.00	0.91
	1/4	0.24	x 6.4	47.8	165.4	3.00	0.91
	3/16	0.18	x 4.8	36	219.6	3.00	0.91
10 x 6	5/8	0.58	254 x 152 x 15.9	110.2	71.7	2.66	0.81
	1/2	0.47	x 12.7	90.3	87.5	2.66	0.81
	3/8	0.36	x 9.5	69.6	113.6	2.66	0.81
	5/16	0.30	x 7.9	59	134.0	2.66	0.81
	1/4	0.24	x 6.4	47.8	165.4	2.66	0.81
	3/16	0.18	x 4.8	36	219.6	2.66	0.81
10 x 4	1/2	0.46	254 x 102 x 12.7	88.5	89.3	2.33	0.71
	3/8	0.35	x 9.5	68.4	115.6	2.33	0.71
	5/16	0.30	x 7.9	58.4	135.4	2.33	0.71
	1/4	0.24	x 6.4	47.2	167.5	2.33	0.71
	3/16	0.18	x 4.8	36	219.6	2.33	0.71
8 x 6	1/2	0.46	203 x 152 x 12.7	88.5	89.3	2.33	0.71
	3/8	0.35	x 9.5	68.4	115.6	2.33	0.71
	5/16	0.30	x 7.9	57	138.7	2.33	0.71
	1/4	0.24	x 6.4	47.2	167.5	2.33	0.71
	3/16	0.18	x 4.8	36	219.6	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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8 x 4	1/2	0.46	203 x 102 x 12.7	86.7	91.2	2.00	0.61
	3/8	0.35	x 9.5	67.9	116.4	2.00	0.61
	5/16	0.30	x 7.9	57.2	138.2	2.00	0.61
	1/4	0.24	x 6.4	46.6	169.6	2.00	0.61
	3/16	0.18	x 4.8	36	219.6	2.00	0.61
7 x 5	1/2	0.46	178 x 127 x 12.7	86.7	91.2	2.00	0.61
	3/8	0.35	x 9.5	67.9	116.4	2.00	0.61
	5/16	0.30	x 7.9	57.2	138.2	2.00	0.61
	1/4	0.24	x 6.4	46.6	169.6	2.00	0.61
	3/16	0.18	x 4.8	36	219.6	2.00	0.61
7 x 4	1/2	0.46	178 x 102 x 12.7	87.4	90.4	1.83	0.56
	3/8	0.35	x 9.5	66.7	118.5	1.83	0.56
	5/16	0.29	x 7.9	56.6	139.7	1.83	0.56
	1/4	0.24	x 6.4	46.6	169.6	1.83	0.56
	3/16	0.18	x 4.8	35.4	223.3	1.83	0.56
6 x 4	1/2	0.46	152 x 102 x 12.7	83.8	94.3	1.66	0.51
	3/8	0.35	x 9.5	66.1	119.6	1.66	0.51
	5/16	0.29	x 7.9	56.1	140.9	1.66	0.51
	1/4	0.24	x 6.4	46	171.8	1.66	0.51
	3/16	0.18	x 4.8	35.4	223.3	1.66	0.51
5 x 4	3/8	0.34	127 x 102 x 9.5	65	121.6	1.5	0.46
	5/16	0.29	x 7.9	55.5	142.4	1.5	0.46
	1/4	0.24	x 6.4	45.4	174.1	1.5	0.46
	3/16	0.18	x 4.8	34.8	227.2	1.5	0.46

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.