



## Mercer Metals - Technical Data - How To Calculate Weight Per Foot (Factors)

### How To Calculate Weight Per Foot (Factors)

			Steel	Aluminum	Copper	Brass
ROUNDS	(Dia. in inches) <sup>2</sup>	x	2.67	.9236	3.044	2.893
SQUARES	(Dia. in inches) <sup>2</sup>	x	3.40	1.176	3.876	3.684
HEXAGONS	(Dia. in inches) <sup>2</sup>	x	2.9445	1.018	3.357	3.190
OCTAGONS	(Dia. in inches) <sup>2</sup>	x	2.816	.9718	3.2046	3.0452
FLATS	width x thickness	x	3.40	1.176	3.876	3.684

### How To Calculate Weight Per Foot Of Tubing Factors - (do not use for design purposes)

		Steel	Aluminum	Copper	Brass
ROUNDS	x	10.68	3.69	12.1768	11.58
SQUARES	(6.572 x wall) - (4 x Dia.) x (3.4032 x wall) = Weight Per Foot				
RECTANGULAR	(Convert to Square)				

### How To Calculate The Bursting Pressure of Tubing

Formula	(2 x wall x Tensile) Divided by OD	TENSILE
Steel	DOM, Seamless, Grade MT 1026	75,000#
Steel	J525, 524, 526	45,000#
Stainless	304, 316, 321, 347	95,000#
Aluminum	6061-T6	50,000#
Copper	Alloy 122	32,000#
Brass	Alloys 260/330	54,000#