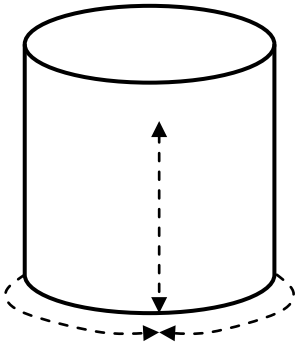
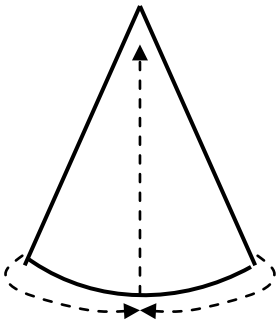
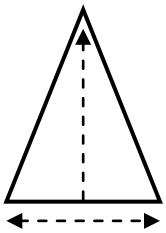
ESTIMATING SQUARE FOOTAGE IN VARIOUS SHAPES



Cylinder

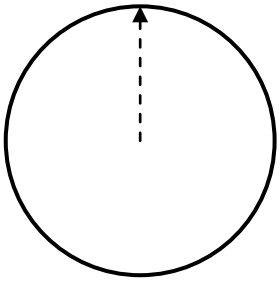
a. Determine area of both ends of cylinder (circles) by multiplying 3.1416 times the radius (in feet) squared.
b. Determine area of side of cylinder by multiplying circumference (in feet) times height (in feet).
c. Add square feet of both ends to square feet of side for total sq. ore feet of





Cone

a. Determine area of base by multiplying 3.1416 times the radius (in feet) squared.
b. Determine the area of the side of the cone by multiplying circumference of base (in feet) times one-half of the slant height (in feet).
c. Add the square feet area of the base to



Triangle

Multiply the base measurement (in feet) times one-half the altitude (in feet)

Circle

To determine the square footage of the area of a circle, multiply 3.1416 times the radius (in feet) squared.

Circumference

To determine the circumference of a circle,

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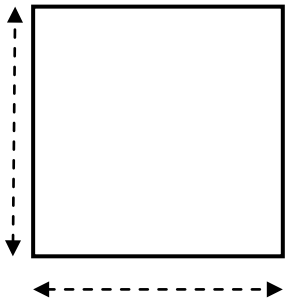

Square or Rectangle

Multiply the base measure (in feet) times the height (in feet).

Estimating Square Footage from Tonnage

Many times structures will have unusual shapes or be too difficult to accurately measure. In such instances, if the tonnage and thickness of the steel can be determined, fairly accurate estimates

Thickness of Steel (inches)	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1-1/2	2
Square Foot Area Per Ton	800	533	400	320	267	200	160	133	114	100	67	50