

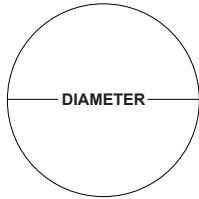


Specified Technologies, Inc.

## PRODUCT ESTIMATION AND INSTALLATION Formulas & General Estimating Information

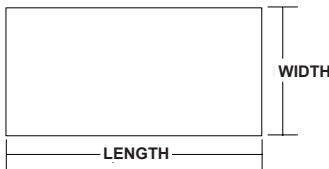
### CIRCLE

Area of a circle (sq. in.) =  
 $0.79 \times \text{diameter}^2 \text{ (in.)}$   
 Circumference of a circle (in.) =  
 $3.14 \times \text{diameter}$



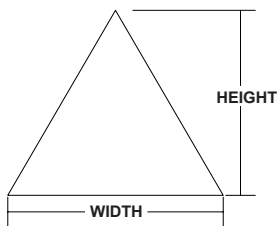
### SQUARE/RECTANGLE

Area of a square/rectangle (sq. in.) =  
 length (in.) x width (in.)



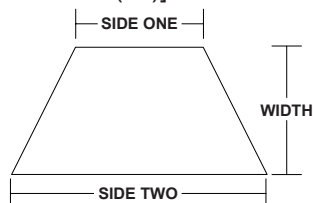
### TRIANGLE

Area of a triangle (sq. in.) =  
 $1/2 \times \text{base (in.)} \times \text{height (in.)}$



### TRAPEZOID

Area of a trapezoid (sq. in.) =  
 width (in.) x [side one (in.) + side two  
 (in.)] / 2



### TYPICAL PIPE SIZES

Nominal Pipe Sizes	Outside Pipe Diameter (in.)	Area (sq. in.)	Nominal Pipe Sizes	Outside Pipe Diameter (in.)	Area (sq. in.)
1/8"	0.405	0.13	4"	4.500	15.91
1/4"	0.540	0.23	5"	5.563	24.32
3/8"	0.675	0.36	6"	6.625	34.49
1/2"	0.840	0.55	8"	8.625	58.45
3/4"	1.050	0.87	10"	10.750	90.80
1"	1.313	1.35	12"	12.750	127.73
1-1/4"	1.660	2.17	14"	14.00	154.00
1-1/2"	1.900	2.84	16"	16.00	201.14
2"	2.375	4.43	18"	18.00	254.57
2-1/2"	2.875	6.49	20"	20.00	314.29
3"	3.500	9.63	22"	22.00	380.29
3-1/2"	4.000	12.57	24"	24.00	452.40

### CONVERSION FACTORS

#### LENGTH

1 foot = 12 inches  
 1 yard = 3 feet = 36 inches  
 1 inch = 2.54 centimeters  
 1 centimeter = 0.39 inches = 10 millimeters  
 1 meter = 100 centimeters = 1,000 millimeters = 39.37 inches

#### AREA

1 square foot = 144 square inches  
 1 square yard = 9 square feet = 1,296 square inches  
 1 square centimeter = 0.15 square inch  
 1 square meter = 10,000 square centimeters = 1,550 square inches

#### VOLUME

1 gallon = 128 fluid ounces = 231 cubic inches  
 1 cubic foot = 1,728 cubic inches = 7.48 gallons = 957 fluid ounces  
 1 cubic yard = 27 cubic feet = 46,656 cubic inches = 202 gallons  
 1 cubic centimeter = 0.061 cubic inches  
 1 cubic meter = 1,000,000 cubic centimeters = 61,020 cubic inches

#### TEMPERATURE

$^{\circ}\text{Celsius} = \frac{5}{9} (^{\circ}\text{Fahrenheit} - 32)$

#### IMPORTANT NOTE:

This information is provided for estimational purposes only.

