



# ESTIMATING GUIDE

## ESTIMATING SQUARE FOOT COVERAGE OF:

### Triangle

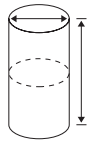
To find the number of square feet in any shape triangle or 3-sided surface, multiply the height by the width and divide the total by 2.



### Cylinder

When the circumference (distance around cylinder) is known, multiply height by circumference.

When diameter (distance across) is known, multiply diameter by 3.1416. This gives circumference. Then multiply by height.



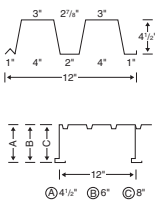
### Circle

To find the number of square feet in a circle, multiply the diameter (distance across) by itself and then multiply this total by .7854.



### Roof Deck

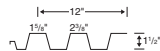
If the roof deck has a cross-section view similar to that shown, first figure the square foot area then multiply by 2.42 to obtain the actual surface area. If the roof deck has a cross-section view similar to that shown, figure the top side as just the square foot area of surface. Figure the underside as follows:



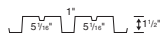
- A. For each square foot area multiply by 1.63 for actual surface area.
- B. Multiply by 1.75.
- C. Multiply by 1.92.

### Siding

If the siding has a cross-section view similar to that shown, multiply each square foot of area by 1.5 for actual surface area. Double for both sides.



If the siding has a cross section view similar to that shown, multiply each square foot of area by 1.42 for actual surface area. Double for both sides.



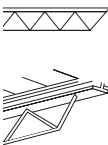
If the siding has a cross-section view similar to that shown, multiply each square foot of area by 1.75 for actual surface area. Double for both sides.



If the depth is 3" multiply by 1.5. Double for both sides.

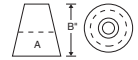
### Open Web Steel Joists

Original equipment manufacturers and fabricators generally dip these joists, as a first or shop coat. On all repaint work by spray, these manufacturers recommend the paint be estimated by thinking of the joist as a solid rather than open web. Double the length times width for both sides.



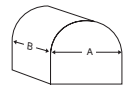
### Stacks

To compute the square foot area of a stack multiply height (B) by the average diameter (A) and multiply the total by 3.



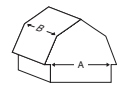
### Arch Roof

Multiply length (B) by width (A) and add one-half the total.



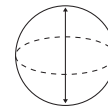
### Gambrel Roof

Multiply length (B) by width (A) and add one-third the total.



### Sphere

To find the number of square feet of a sphere or ball, multiply the diameter (distance across) by itself and then multiply this total by 3.1416. If you don't have the diameter, you can find it by measuring the circumference and multiplying it by .31831.



DIAMETER IN FEET	SPHERE SURFACE IN SQ. FT.
20	1,257
25	1,963
30	2,827
35	3,848
40	5,027
45	6,362
50	7,854
55	9,503
60	11,310
65	13,273
70	15,394

### Surfaces of Spheres

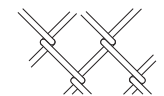
\*Outside surface area only – double surface area for inside and outside.

### Chain Link Fences

When application is made by spray, figure the square foot area of the fence as a solid because of the over spray. Always double paint requirements for both sides.



In estimating the paint requirements for chain link fences, your first consideration should be the method of application. The most economical and recommended method is with an extra-long-nap roller.



### How to Determine Coverage

Assuming the protective properties of coatings of the same generic type to be the same and that the percentage of nonvolatile solids by volume varies, the following calculation is helpful in obtaining a comparable cost:

$$\text{Coverage, sq. ft./gal.} = \frac{\text{percent nonvolatile solids by volume} \times 1604}{\text{dry film thickness, mils}}$$

where percent nonvolatile solids by volume (expressed as a fraction) is a quantity available from the paint specification, and 1604 represents the theoretical area covered by 1 gal. nonvolatile (100 percent solids) material, 1 mil thick.

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