

**FORMULAS FOR DETERMINING FOOTING
SPACING AND SIZE**

$$\frac{F \times S}{\# \times w} = P$$

$$\frac{P \times \# \times w}{S} = F$$

F = FOOTING AREA IN SQUARE FEET

S = SOIL BEARING CAPACITY IN POUNDS PER SQUARE FOOT

= WEIGHT IN POUNDS PER SQUARE FOOT (*FROM MANUFACTURERS INSTRUCTIONS*)

w = WIDTH OF ½ THE MODULE IN FEET

P = PIER SPACING IN FEET

Other useful information:

Area of a square or rectangle

A = Side x Side

Area of a circle

A = 3.1416 x Radius of circle squared

Circle the same area as a square

Side x 1.12838 = Diameter

Square the same area as a circle

Diameter x .88623 = Side

Diagonal of a rectangle

Square root of (length x length + width x width)

Side of a square if the area is known

Square Root of area

144 square inches = 1 square foot

9 square feet = 1 square yard

27 cubic feet = 1 cubic yard