

Table 6.3.3

## Footing Size and Capacity

Soil Capacity (psf)	Minimum Footing Size (in.)	Single Stack Pier (8" X 16")		Double Stack Pier (16" X 16")	
		Maximum Footing Capacity (lb)	Unreinforced Cast-in-Place Minimum Thickness (in.)	Maximum Footing Capacity (lb)	Unreinforced Cast-in-Place Minimum Thickness (in.)
1000	16 x 16	1,600	6	1,600	6
	20 x 20	2,600	6	2,600	6
	24 x 24	3,700	6	3,700	6
	30 x 30	5,600	8	5,800	6
	36 x 36	7,900	10	8,100	8
	42 x 42	10,100	12	10,700	10
	48 x 48	13,000	15	13,600	12
1,500	16 x 16	2,500	6	2,500	6
	20 x 20	4,000	6	4,000	6
	24 x 24	5,600	8	5,700	6
	30 x 30	8,600	10	8,900	6
	36 x 36	12,200	12	12,600	8
	42 x 42	16,100	15	16,500	12
	48 x 48	20,400	18	21,000	15
2000	16 x 16	3,400	6	3,400	6
	20 x 20	5,300	6	5,300	6
	24 x 24	7,600	8	7,700	6
	30 x 30	11,600	10	11,900	8
	36 x 36	16,300	15	16,900	10
	42 x 42	21,700	18	22,700	12
2500	16 x 16	4,300	6	4,300	6
	20 x 20	6,700	6	6,700	6
	24 x 24	9,600	8	9,700	6
	30 x 30	14,700	12	15,000	8
	36 x 36	20,800	15	21,400	10
3000	16 x 16	5,200	6	5,200	6
	20 x 20	8,100	8	8,100	6
	24 x 24	11,500	10	11,700	6
	30 x 30	17,800	12	18,100	8
	36 x 36	25,000	18	25,700	12
4000	16 x 16	7,000	6	7,000	6
	20 x 20	10,800	8	10,900	6
	24 x 24	15,500	10	15,600	8
	30 x 30	23,800	15	24,200	10

- (1) The 6" cast-in-place values can be used for 4" precast concrete footings.
- (2) Other footing configurations (rectangular, circular, etc.) can be used provided the area and depth of the footing is equal to or greater than that listed and the distance from the pier to the footing edge does not exceed the footing depth.
- (3) Capacities listed have been reduced by the dead load of the footing.
- (4) Interpolation between values is allowed provided the next higher footing thickness is used when the actual pier capacity is more than halfway between values. Actual values may be rounded to the nearest hundredth.