

Knox County Code Administration & Inspection

2006 ICC Residential Footing Information

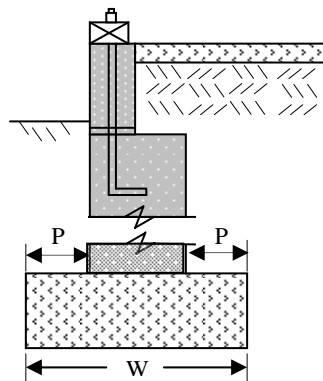


REV.5-23-2007

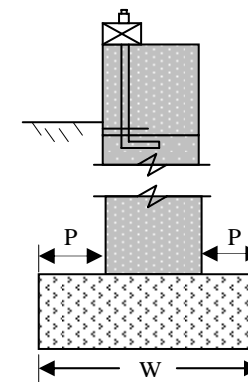
1. Footings are required on all exterior walls, beneath each end of interior girder beams, and beneath all posts supporting decks.
2. Minimum sizes for concrete and masonry footings are based on the load-bearing value of the soil, type of construction, and height of construction. **Table 1** below can be used to size footings.
3. Spread footings shall be at least 8" thick and shall have projections (P) at least 2" on each side of the foundation wall but not more than the thickness of the footing.
4. All exterior footings shall be placed such that the bottom of the footing is 12" minimum below the undisturbed ground surface or finished grade.
5. Additional footing information and requirements can be obtained in Section R403 of the 2006 International Residential Code.

TABLE 1: MINIMUM WIDTH (W) OF CONCRETE OR MASONRY FOOTINGS (inches)

Load bearing value of soil (psf)	1,500 Clay, Sandy clay, Silty clay, Clayey silt, Silt and Sandy silt	2,000 Sand, Silty sand, Clayey sand, Silty gravel and Clayey gravel	3,000 Sandy gravel and/or Gravel	>= 4,000 Sedimentary and Foliated rock, Crystalline bedrock
Conventional light-frame construction				
1-Story	12	12	12	12
2-Story	15	12	12	12
3-Story	23	17	12	12
4-inch Brick veneer over light frame or 8-inch hollow concrete masonry				
1-Story	12	12	12	12
2-Story	21	16	12	12
3-Story	32	24	16	12
8-inch Solid or fully grouted masonry				
1-Story	16	12	12	12
2-Story	29	21	14	12
3-Story	42	32	21	16



GROUND SUPPORT SLAB WITH MASONRY WALL AND SPREAD FOOTING



BASEMENT OR CRAWL SPACE WITH MASONRY WALL AND SPREAD FOOTING

Owner is responsible for scheduling footing inspections.