

Residential Plan Review Guide for Round Footing Sizing

	Footing Sizes		Required (Min.) Soil Load Bearing Capacity (PSF) Total Column Loading					
	Dia. Inches	Footing Sq. In.	Footing Sq. Ft.	1000 PSF	1500 PSF	2000 PSF	2500 PSF	3000 PSF
8" Ftg. Thickness - Min.	8	50.27	0.35	349	524	698	873	1047
	9	63.62	0.44	442	663	884	1104	1325
	10	78.54	0.55	545	818	1091	1364	1636
	11	95.03	0.66	660	990	1320	1650	1980
	12	113.10	0.79	785	1178	1571	1964	2356
	13	132.73	0.92	922	1383	1844	2304	2765
	14	153.94	1.07	1069	1604	2138	2673	3207
	15	176.72	1.23	1227	1841	2454	3068	3682
10" Ftg.	16	201.06	1.40	1396	2094	2793	3491	4189
	17	226.98	1.58	1576	2364	3153	3941	4729
	18	254.47	1.77	1767	2651	3534	4418	5301
	19	283.53	1.97	1969	2953	3938	4922	5907
12" Ftg. Thickness - Minimum	20	314.16	2.18	2182	3273	4363	5454	6545
	21	346.36	2.41	2405	3608	4811	6013	7216
	22	380.13	2.64	2640	3960	5280	6600	7919
	23	415.48	2.89	2885	4328	5771	7213	8656
	24	452.39	3.14	3142	4712	6283	7854	9425
	25	490.88	3.41	3409	5113	6818	8522	10227
	26	530.93	3.69	3687	5531	7374	9218	11061
	27	572.56	3.98	3976	5964	7952	9940	11928
	28	615.75	4.28	4276	6414	8552	10690	12828
	29	660.52	4.59	4587	6880	9174	11467	13761
14" Footing	30	706.86	4.91	4909	7363	9818	12272	14726
	31	754.77	5.24	5241	7862	10483	13104	15724
	32	804.25	5.59	5585	8378	11170	13963	16755
	33	855.30	5.94	5940	8909	11879	14849	17819
	34	907.92	6.31	6305	9458	12610	15763	18915
	35	962.12	6.68	6681	10022	13363	16703	20044
	36	1017.88	7.07	7069	10603	14137	17672	21206

Shaded total load numbers may require special column types or sizes and/or addition footing steel reinforcement.

NOTE: This table should only be used as a guide for establishing round column pad sizes. When the actual column type, size and total loading has been determined, each column footing condition should be reviewed to determine the required round column pad size and thickness. Although actual concrete compressive strength (PSI) may vary, it is assumed that at a minimum, Plain Structural Concrete (2500 PSI) will be used for column footings sized herein. Soil types and bearing capacities must also be verified at each site. Consult with the local Building Code Official prior to using this table.