

LOAD CAPACITY OF SQUARE FOOTINGS

Based on 1500 PSF soil bearing capacity

Calculations done with StruCalc 5.0 by Cascade Consulting Associates

Width in inches	Depth in inches	Load capacity in pounds	Rebar requirement
12	12	1350	none
13	12	1590	none
14	12	1910	none
15	12	2210	none
16	12	2540	none
17	12	2950	none
18	12	3340	none
19	12	3810	none
20	12	4260	none
21	12	4750	none
22	12	5270	none
23	12	5890	none

24	12	6480	none
25	12	7110	none
26	12	7840	none
27	12	8540	none
28	12	9270	none
29	12	10150	none
30	12	10960	none
31	12	11820	none
32	12	12830	none
33	12	13780	none
34	12	14760	none
35	12	15470	none

36	12	17010	5 - #4 each way
37	12	18130	5 - #4 each way
38	12	19450	5 - #4 each way
39	12	20670	5 - #4 each way
40	12	21940	5 - #4 each way
41	12	23430	6 - #4 each way
42	12	24800	6 - #4 each way
43	12	26230	6 - #4 each way
44	12	27890	6 - #4 each way
45	12	29420	6 - #4 each way
46	12	31010	6 - #4 each way
47	12	32850	6 - #4 each way
48	12	34560	6 - #4 each way

FLOOR LOADS FROM 1 FLOOR ONLY *

Width in inches	Depth in inches	Load capacity in pounds	Rebar requirement
12	8	1400	none
13	8	1650	none
14	8	1980	none
15	8	2290	none
16	8	2630	none
17	8	3060	none
18	8	3460	none
19	8	3900	none
20	8	4420	none

* The load capacity of 8" deep footings is slightly higher than 12" deep footings due to the lesser self-weight of concrete.