

Wall load p in pounds per lineal foot $= 4 \times f \times SM \times L$

where

f = allowable bending stress

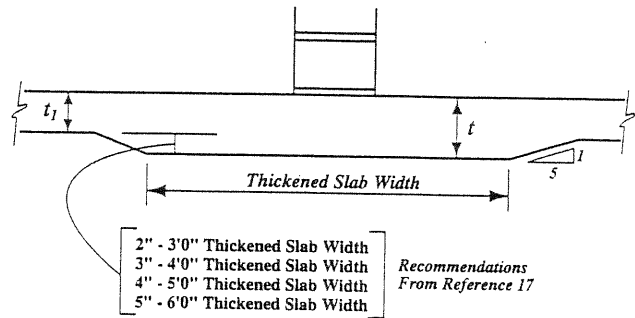
$$= 9 \sqrt{f'_c} \div SF$$

SM = section modulus per foot

$$= 12 t^2 \div 6$$

$$L = \sqrt[4]{\frac{12k}{4 E_c I}}$$

$$\text{and } E_c = 57,000 \sqrt{f'_c}$$



Slab thickness <i>t</i> , in.	<i>f_c'</i> in psi:											
	3000			3500			4000			4500		
	<i>k</i> in pci:											
	100	200	300	100	200	300	100	200	300	100	200	300
4	883	1051	1163	936	1113	1232	984	1170	1295	1029	1223	1354
5	1168	1389	1537	1237	1471	1628	1301	1547	1712	1359	1617	1789
6	1467	1744	1930	1554 (691)	1848	2045	1634 (726)	1943	2150	1707 (759)	2031	2247
8	2101	2499	2765	2226 (989)	2648	2930	2341 (1040)	2784	3080	2446 (1087)	2909	3220
10	2777	3303	3655	2943 (1308)	3499	3873	3094 (1375)	3679	4072	3233 (1437)	3845	4255
12	3488	4148	4591	3696 (1643)	4395	4864	3886 (1727)	4621	5114	4061 (1805)	4829	5345

NOTE: Values in parentheses calculated using the safety factor (SF) of 5.625 as used in the Army/Air Force Technical Manual (Reference 17) instead of the safety factor of 2.5 as indicated for the rest of the table.

Table 11 Allowable interior wall loadings for selected slab conditions, based on the displayed equation from Reference 17.

Wall load p in pounds per lineal foot $= 3.1017 \times f \times SM \times L$

where

f = allowable bending stress

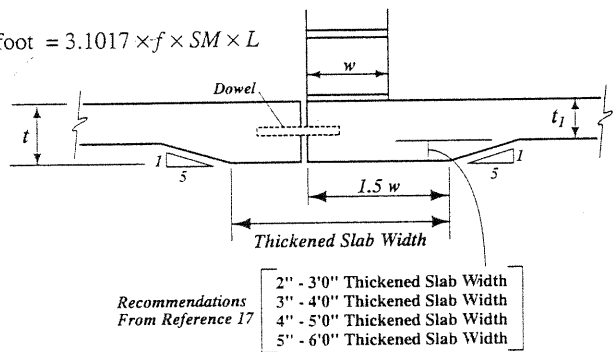
$$= 9 \sqrt{f'_c} \div SF$$

SM = section modulus per foot

$$= 12 t^2 \div 6$$

$$L = \sqrt[4]{\frac{12k}{4 E_c I}}$$

$$\text{and } E_c = 57,000 \sqrt{f'_c}$$



Slab thickness <i>t</i> , in.	<i>f'_c</i> in psi:											
	3000			3500			4000			4500		
	<i>k</i> in pci:											
	100	200	300	100	200	300	100	200	300	100	200	300
4	685	815	902	725	863	955	763	908	1004	798	948	1050
5	905	1077	1192	959	1140	1263	1009	1199	1327	1054	1254	1387
6	1137	1352	1497	1205 (536)	1433	1586	1267 (563)	1506	1667	1324 (588)	1575	1743
8	1629	1938	2144	1726 (767)	2053	2272	1815 (807)	2158	2389	1897 (843)	2256	2497
10	2154	2561	2834	2282 (1014)	2714	3003	2399 (1066)	2853	3157	2507 (1114)	2982	3300
12	2705	3217	3560	2866 (1274)	3408	3772	3013 (1339)	3583	3965	3149 (1400)	3745	4144

NOTE: Values in parentheses calculated using the safety factor (SF) of 5.625 as used in the Army/Air Force Technical Manual (Reference 17) instead of the safety factor of 2.5 as indicated for the rest of the table.

Table 12 Allowable edge wall loadings for given slab conditions, based on the displayed equation from Reference 17.