

SOLID FLAT SLAB

8" Thick
Lightweight Concrete

Section Properties per foot of width

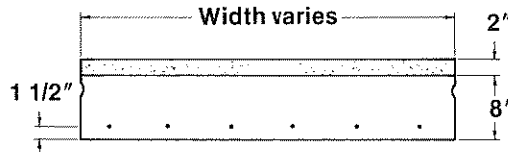
Untopped Topped

A =	96.00 in. ²	—
I =	512.00 in. ⁴	1058.50 in. ⁴
Y _b =	4.00 in.	5.12 in.
Y _t =	4.00 in.	4.88 in.
Z _b =	128.00 in. ³	206.75 in. ³
Z _t =	128.00 in. ³	216.90 in. ³
b _w =	12.00 in.	12.00 in.
wt =	77 psf	102 psf
V/S =	4.00 in.	

Strand Patterns

Producer may vary size and strength of strands. See "explanation of load tables"

Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.



$f'_c = 5000$ psi
 $f'_{ci} = 3500$ psi

Key

- 267 — Safe superimposed service load, psf
- 0.1 — Estimated camber at erection, in.
- 0.2 — Estimated long-time camber, in.

LFS8

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Designation Code	Span, ft.																					
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		
30-S	267	225	190	161	137	117	100	85	72													
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0													
	0.2	0.2	0.2	0.1	0.1	0.1	0.0	-0.1	-0.2													
40-S		294	263	230	198	172	148	127	109	93	79	67										
		0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.0										
		0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	-0.1	-0.2										
50-S			281	242	210	182	158	137	119	103	89	76	65	55								
			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0								
			0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.0	-0.2	-0.4								
60-S				284	247	215	188	164	144	126	110	96	83	72	62	53	45					
				0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.1	0.0					
				0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.3	0.2	0.0	-0.2	-0.4	-0.7					
70-S					284	249	218	192	169	149	132	116	102	89	78	68	59	50	43			
					0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.3	0.1		
					0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.5	0.3	0.1	-0.1	-0.4	-0.7		

LFS8 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Designation Code	Span, ft.														
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
30-S															
40-S	292	252	217	188	163	136	110	88	68						
	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.0						
	0.2	0.2	0.1	0.1	0.0	-0.1	-0.2	-0.3	-0.5						
50-S		282	247	214	181	151	125	103	83	65	49				
		0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0				
		0.3	0.3	0.2	0.2	0.1	-0.1	-0.2	-0.4	-0.6	-0.8				
60-S			263	225	192	163	137	115	94	76	60				
			0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3				
			0.5	0.4	0.3	0.2	0.1	0.0	-0.2	-0.4	-0.7				
70-S				270	233	201	172	147	124	104	86	69	54		
				0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.4		
				0.6	0.6	0.5	0.4	0.3	0.2	0.0	-0.3	-0.5	-0.8		

Bold type — Capacity governed by stresses, others governed by flexural or shear strength