

SOLID FLAT SLAB

4" Thick
Lightweight Concrete

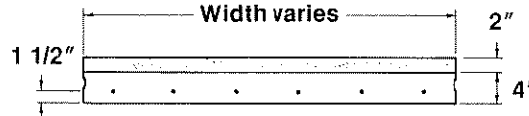
Section Properties per foot of width

	Untopped	Topped
A =	48.00 in. ²	—
I =	64.00 in. ⁴	231.25 in. ⁴
Y _b =	2.00 in.	3.10 in.
Y _t =	2.00 in.	2.90 in.
Z _b =	32.00 in. ³	74.60 in. ³
Z _t =	32.00 in. ³	79.75 in. ³
b _w =	12.00 in.	12.00 in.
wt =	38 psf	63 psf
V/S =	2.00 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.



$$f'_c = 5000 \text{ psi}$$

$$f'_{ci} = 3500 \text{ psi}$$

Key

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

LFS4

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Designation Code	Span, ft.							
	10	11	12	13	14	15	16	17
30-S	175	138	110	88				
	0.1	0.1	0.1	0.0				
	0.1	0.1	0.0	-0.1				
40-S	201	169	138	112	91	75	61	
	0.2	0.2	0.2	0.2	0.1	0.1	0.0	
	0.2	0.2	0.1	0.1	0.0	-0.1	-0.3	
50-S	250	205	166	136	112	93	77	64
	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.1
	0.3	0.3	0.3	0.2	0.2	0.1	-0.1	-0.3
60-S	297	239	195	160	133	111	93	78
	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3
	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.0

LFS4 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Designation Code	Span, ft.							
	11	12	13	14	15	16	17	18
30-S	263	197	146	106				
	0.1	0.1	0.0	0.0				
	0.0	-0.1	-0.2	-0.4				
40-S	263	203	154	115	84			
	0.2	0.2	0.1	0.1	0.0			
	0.0	-0.1	-0.2	-0.4	-0.6			
50-S	259	203	158	121	90			
	0.3	0.3	0.2	0.2	0.1			
	0.1	-0.1	-0.2	-0.4	-0.7			
60-S	251	200	158	123	94			
	0.4	0.4	0.3	0.3	0.2			
	0.1	0.0	-0.2	-0.4	-0.7			

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