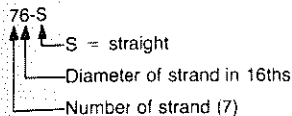


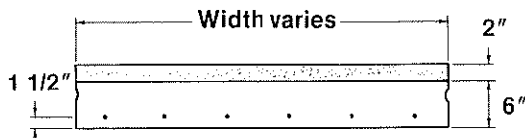
SOLID FLAT SLAB

Strand Pattern Designation



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.

6" Thick
 Lightweight Concrete



$f'_c = 5000$ psi
 $f'_{ci} = 3500$ psi
 Low-relaxation strand

Section Properties per foot of width

	Untopped	Topped
A	72.00 in. ²	—
I	216.00 in. ⁴	545.25 in. ⁴
Y_b	3.00 in.	4.11 in.
Y_t	3.00 in.	3.89 in.
Z_b	72.00 in. ³	132.68 in. ³
Z_t	72.00 in. ³	140.18 in. ³
b_w	12.00 in.	12.00 in.
wt	58 psf	83 psf
V/S	3.00 in.	

Key

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

LFS6

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Designation Code	Span, ft.														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
66-S	291	250	216	189	167	146	124	106	90	77	66				
	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1				
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0	-0.1				
76-S	316	283	257	225	199	174	149	128	110	95	82	71			
	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.2			
	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	-0.1			
58-S	289	263	239	222	202	188	170	148	129	113	98	85	73		
	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4		
	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.3	0.1		
68-S	295	269	245	225	208	191	176	167	155	137	120	105	92	81	
	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	
	0.6	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.8	0.7	0.5	
78-S	298	272	248	228	211	194	179	170	158	149	137	123	109	96	
	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	
	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.2	1.2	1.0	

LFS6 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Designation Code	Span, ft.													
	14	15	16	17	18	19	20	21	22	23	24	25	26	27
66-S	270	238	202	162	128	99	75							
	0.2	0.2	0.2	0.2	0.2	0.2	0.1							
	0.2	0.1	0.1	0.0	0.0	-0.2	-0.3							
76-S	284	247	209	170	137	109	85							
	0.3	0.3	0.3	0.3	0.3	0.3	0.3							
	0.3	0.2	0.2	0.2	0.1	0.0	-0.1							
58-S	297	272	251	233	208	173	142	116	93	73				
	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.3				
	0.4	0.4	0.4	0.4	0.3	0.3	0.1	0.0	-0.2	-0.4				
68-S	303	281	260	239	224	208	192	169	130	107	87	69		
	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.5			
	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.2	0.0	-0.2	-0.5		
78-S	309	284	263	245	227	214	200	187	172	138	117	97	79	
	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9	
	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.4	-0.3	0.0	-0.3	

Strength based on strain compatibility; bottom tension limited to $6\sqrt{f'_c}$; see pages 2-3-2-5 for explanation