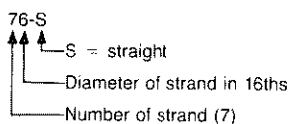


SOLID FLAT SLAB

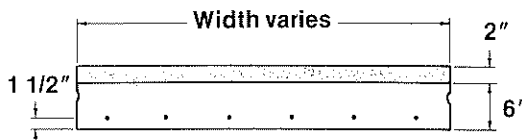
Strand Pattern Designation



6" Thick
 Normal Weight Concrete

Section Properties per foot of width

	Untopped	Topped
A	72.00 in. ²	—
I	216.00 in. ⁴	458.50 in. ⁴
Y _b	3.00 in.	3.82 in.
Y _t	3.00 in.	4.18 in.
Z _b	72.00 in. ³	120.03 in. ³
Z _t	72.00 in. ³	109.70 in. ³
b _w	12.00 in.	12.00 in.
wt	75 psf	100 psf
V/S	3.00 in.	



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
 Low-relaxation strand

Key

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

FS6

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	276	235	202	175	152	132	110	92	76						
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0						
	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	-0.1						
76-S	302	269	242	211	185	160	135	114	96	81					
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0					
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	-0.1					
58-S	308	275	248	227	207	187	174	156	134	113	96	81			
	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1			
	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0			
68-S	314	281	254	230	210	193	177	165	152	141	121	103	88	75	
	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	
	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.0	
78-S	320	287	257	236	213	196	183	168	155	144	134	126	109	94	81
	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4
	0.4	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2

FS6 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Designation Code	Span, ft.												
	13	14	15	16	17	18	19	20	21	22	23	24	25
66-S	295	256	213	167	129	99	70						
	0.1	0.1	0.1	0.1	0.1	0.0	0.0						
	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.3						
76-S	303	269	221	177	140	108							
	0.2	0.2	0.2	0.2	0.1	0.1							
	0.1	0.1	0.1	0.0	0.0	-0.1							
58-S	312	286	261	240	221	181	147	118	93	71			
	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0			
	0.3	0.3	0.2	0.2	0.2	0.1	0.0	-0.1	-0.3	-0.4			
68-S	318	292	267	246	228	210	193	160	131	105			
	0.4	0.4	0.4	0.4	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	0.1	0.0	-0.2			
78-S	298	273	252	231	216	199	185	169	140	115	93		
	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4		
	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.0	-0.2		

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