

SOLID FLAT SLAB

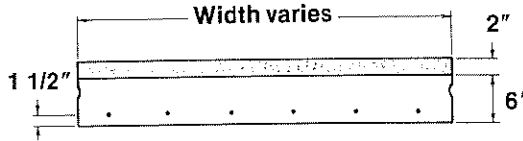
Strand Pattern Designation

6" Thick
Normal Weight Concrete

Section Properties
per foot of width

Strand Patterns

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



	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.

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

Key

- 282 — Safe superimposed service load, psf
- 0.1 — Estimated camber at erection, in.
- 0.1 — 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
30-S	282	241	196	161	133	109	90	72							
	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0							
	0.1	0.1	0.1	0.1	0.0	0.0	-0.1	-0.2							
40-S		279	240	209	177	147	122	100	82	67					
		0.1	0.2	0.2	0.2	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					
50-S			251	218	182	153	128	107	90	74	61				
			0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0				
			0.3	0.3	0.3	0.2	0.2	0.1	0.0	-0.1	-0.2				
60-S				258	218	184	156	133	112	95	80	67	55		
				0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0		
				0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.0	-0.1	-0.3		
70-S				299	253	216	184	158	135	116	99	84	71	60	
				0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	
				0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.0	-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
30-S	286	236	186	144	108	78							
	0.1	0.1	0.1	0.0	0.0	0.0							
	0.0	0.0	0.0	-0.1	-0.2	-0.3							
40-S		254	203	161	125	96	70						
		0.2	0.1	0.1	0.1	0.0	0.0						
		0.1	0.0	0.0	-0.1	-0.2	-0.4						
50-S		262	213	172	138	108	82	60					
		0.2	0.2	0.2	0.2	0.1	0.1	0.0					
		0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.5					
60-S		266	219	180	146	117	92	70	50				
		0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0				
		0.2	0.2	0.1	0.0	-0.1	-0.3	-0.5	-0.7				
70-S		266	221	184	151	123	98	77	58				
		0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2				
		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