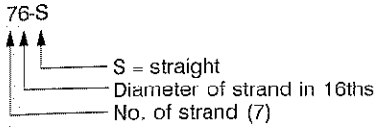


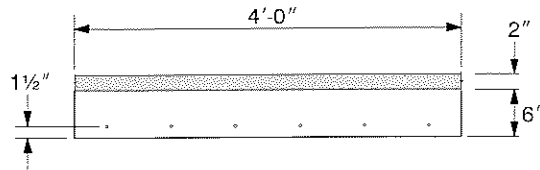
**Strand Pattern Designation**



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.

**SOLID FLAT SLAB**

**6" Thick  
Normal Weight Concrete**



**Section Properties**

	Untopped	Topped
A	= 288 in <sup>2</sup>	—
I	= 864 in <sup>4</sup>	1,834 in <sup>4</sup>
y <sub>b</sub>	= 3.00 in.	3.82 in.
y <sub>t</sub>	= 3.00 in.	4.18 in.
S <sub>b</sub>	= 288 in <sup>3</sup>	480 in <sup>3</sup>
S <sub>t</sub>	= 288 in <sup>3</sup>	439 in <sup>3</sup>
b <sub>w</sub>	= 48.00 in.	48.00 in.
wt	= 300 plf	400 plf
	75 psf	100 psf
V/S	= 2.67 in.	

f'<sub>c</sub> = 5,000 psi  
 f'<sub>ci</sub> = 3,500 psi

**Key**

- 330 — 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	26	27	28	29	30										
66-S	330	284	236	195	162	135	113	94	78	65	53	43	33																	
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.1	-0.1	-0.2	-0.3																	
	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	-0.1	-0.2	-0.4	-0.5	-0.7																	
76-S	390	336	280	233	195	164	139	117	99	83	68	55	44	35																
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.3																
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	-0.1	-0.2	-0.4	-0.5	-0.8																
58-S	369		320	280	247	219	186	158	134	113	96	81	57	56	46	36														
	0.2		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	-0.1	-0.2	-0.3														
	0.3		0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	-0.2	-0.4	-0.6	-0.9														
68-S	387			339	300	262	224	191	164	141	121	103	88	75	63	53	43	35												
	0.3			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	-0.2	-0.4													
	0.4			0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.0	-0.2	-0.4	-0.7	-1.1													
78-S	396				351	303	261	225	195	168	146	126	109	94	81	69	59	49	41	33										
	0.4				0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.1	0.0	-0.2	-0.5										
	0.6				0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.0	-0.3	-0.6	-0.9	-1.4									

**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	26	27	28	
66-S	342	284	237	198	162	127	97	71	49								
	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.1	-0.1								
	0.1	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.3	-0.5								
76-S	336	283	239	197	158	125	96	72	51	32							
	0.2	0.2	0.2	0.2	0.1	-0.1	-0.2	-0.4	-0.5	-0.7							
	0.2	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.4	-0.5	-0.7							
58-S	356		314	268	221	181	147	118	93	71	51	34					
	0.3		0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	-0.1	-0.2					
	0.3		0.2	0.2	0.2	0.1	0.0	-0.1	-0.3	-0.4	-0.7	-0.9					
68-S	375			323	278	232	193	160	131	105	83	64	46	31			
	0.4			0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	-0.2			
	0.4			0.4	0.3	0.3	0.2	0.1	0.0	-0.2	-0.3	-0.6	-0.9	-1.2			
78-S	371				323	281	239	201	169	140	115	93	73	56	40		
	0.6				0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.1	0.0		
	0.5				0.5	0.5	0.3	0.4	0.3	0.1	0.0	-0.2	-0.5	-0.8	-1.1		

Strength based on strain compatibility; bottom tension limited to 6√f'<sub>c</sub>; see pages 2-2-2-6 for explanation.