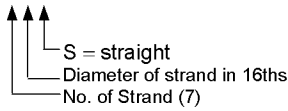


Strand Pattern Designation
76-S

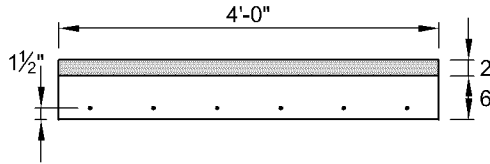


Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

Key
361 – Safe superimposed service load, psf
0.1 – Estimated camber at erection, in.
0.2 – Estimated long-time camber, in.

SOLID FLAT SLAB

6 in. Thick
Normal Weight Concrete



$f'_c = 5,000 \text{ psi}$
 $f_{pu} = 270,000 \text{ psi}$

Section Properties
Untopped Topped

A =	288 in. ²	384 in. ²
I =	864 in. ⁴	1,834 in. ⁴
y _b =	3.00 in.	3.82 in.
y _t =	3.00 in.	4.18 in.
S _b =	288 in. ³	480 in. ³
S _t =	288 in. ³	439 in. ³
wt =	300 plf	400 plf
DL =	75 psf	100 psf
V/S =	2.67 in.	

FS6

Table of safe superimposed service load (psf) and cambers (in.)

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	31	32																														
66-S	361	312	261	217	182	154	130	110	93	79	66	53	42	33																																						
	0.1	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	-0.5																																					
	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	-0.1	-0.2	-0.4	-0.5	-0.7	-1.0																																					
76-S		367	307	257	217	184	157	134	114	96	80	66	54	43	34	26																																				
		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	-0.5	-0.7																																				
		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	-1.0	-1.3																																				
58-S			350	308	273	239	203	173	148	126	107	91	77	65	54	44	35	28																																		
			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	-0.5	-0.7																																		
			0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	-0.2	-0.4	-0.6	-0.9	-1.2	-1.6																																	
68-S				371	329	282	241	207	178	154	132	114	98	84	71	60	50	42	34	27																																
				0.4	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	-0.6	-0.9																																
				0.5	0.5	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	-1.5	-1.9																															
78-S					374	321	276	239	208	181	157	137	119	103	89	77	66	56	47	39	32	25																														
					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	-0.7	-1.0																														
					0.6	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	-1.8	-2.4																													

FS6 + 2

Table of safe superimposed service load (psf) and cambers (in.)

2 in. Normal Weight Topping

Strand Designation Code	Span, ft																																													
	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29																													
66-S	377	315	265	224	191	153	120	92	68	47	29																																			
	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.1	-0.1	-0.2	-0.3																																			
	0.1	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.3	-0.5	-0.7	-0.9																																			
76-S		371	314	267	227	184	148	118	91	68	48	31																																		
		0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.3																																		
		0.2	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.4	-0.5	-0.7	-1.0																																		
58-S			392	347	297	247	205	169	137	110	87	66	48	32																																
			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	0.2	0.2	0.2	0.1	0.0	-0.1	-0.3	-0.4	-0.7	-0.9	-1.2																																
68-S					357	304	256	214	179	148	121	98	77	59	42	28																														
					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	-1.5																														
78-S						357	305	260	221	186	156	130	107	86	68	51	36																													
						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	-0.8	-1.1	-1.5																									
						0.5	0.5	0.4	0.4	0.3	0.1	0.0	-0.2	-0.5	-0.8	-1.1	-1.5																													

Strength is based on strain compatibility; bottom tension is limited to $7.5\sqrt{f'_c}$; see pages 2-7 through 2-10 for explanation.