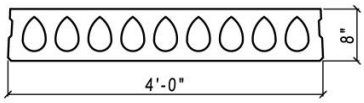
SPANCRETE®
Building Innovation.™

Ultralight Load Table
8" Thick
1.0" Strand Cover



No Structural Topping
Dead Load Weight of Slab = 61 psf

IBC Fire Ratings	Unrestrained 1 hour Restrained 2 hours

Section Properties

A=251 in² Yt=3.99 in b=15.4 in
I=1817 in⁴ Yb=4.01 in wt= 61 psf

ϕM_n ft-k/ft	16.72	22.13	28.78	35.04	39.58
Series	1.0F-8606	1.0F-8706	1.0F-8708	1.0F-8710	1.0F-8808
Span in Feet	Allowable Superimposed Load In lbs/ft²				
13	449				
14	381	462			
15	326	411	459	491	
16	281	370	409	447	
17	243	335	367	401	420
18	212	296	334	363	390
19	186	261	305	330	353
20	163	231	281	304	323
21	144	205	256	276	297
22	127	183	239	256	271
23	112	163	220	238	251
24	99	146	204	220	234
25	88	131	184	207	215
26	78	118	167	191	202
27	69	106	152	180	187
28		95	138	169	177
29		86	125	158	165
30		77	114	145	157
31			104	132	147
32			95	121	134
33			86	111	123
34			79	101	113
35				93	104
36				85	96
37				78	88
38				71	81
39					74
40					68

2" Bonded Structural Topping
Dead Load Weight of Slab With Topping = 86 psf

IBC Fire Ratings	Unrestrained 1 hour Restrained 4 hours

Section Properties

A=336 in² Yt = 4.63 in b = 15.4 in
I=3425 in⁴ Yb = 5.27 in wt = 86 psf

ϕM_n ft-k/ft	21.48	28.39	36.8	44.65	50.73
Series	1.0F-8606T	1.0F-8706T	1.0F-8708T	1.0F-8710T	1.0F-8808T
Span in Feet	Allowable Superimposed Load In lbs/ft²				
14	483				
15	413	462			
16	355	429			
17	307	400			
18	267	374			
19	233	329	351		
20	204	290	331		
21	179	257	312		
22	157	229	295		
23		204	279		
24		182	255	265	
25		163	230	252	
26		145	208	239	
27			188	228	
28			170	216	
29			154	194	207
30			140	174	196
31				157	177
32				140	160
33				126	144
34					130
35					116

Concrete Strength: 6,000 psi at 28 days

Prestress Strands: 3/8", 7/16", 1/2" special, 270 ksi Lo-Lax

Camber 1"-1 1/2"

Camber > 1 1/2"

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Load tables are presented as guidelines only. Design requirements must be reviewed by the engineer of record for each specific project.