Ultralight Load Table
10" Thick
1.63" Strand Cover

No Structural Topping
Dead Load Weight of Slab = 67 psf

IBC Fire Ratings	Unrestrained 2 hours				
	Restrained 3 hours				
Section Properties					
A=277 in²	Yt=4.83 in		b=14.6 in		
I=3238 in⁴	Yb=5.17 in		wt=67 psf		
ϕM_n ft-k/ft	**26.94**	**35.21**	**43.1**	**48.97**	**58.3**
Series	**1.63E-10706**	**1.63E-10708**	**1.63E-10710**	**1.63E-10808**	**1.63E-10810**
Span in Feet	**Allowable Superimposed Load In lbs/ft²**				
16	453				
17	409	456	499		
18	365	412	451	460	
19	323	374	408	432	
20	286	343	373	396	406
21	255	317	344	361	384
22	228	290	314	333	363
23	204	270	292	309	345
24	183	250	272	285	319
25	165	231	252	266	295
26	149	210	237	246	275
27	134	191	220	232	257
28	121	174	207	216	239
29	110	159	194	205	225
30	99	145	182	191	210
31	90	133	173	181	198
32	81	122	160	170	186
33		111	148	160	177
34		102	136	154	166
35		93	126	144	156
36		85	116	134	149
37			107	124	141
38			99	114	133
39			91	106	126
40			84	98	117
41				90	109
42				83	101
43					94
44					87
45					81
46					75

2" Bonded Structural Topping
Dead Load Weight of Slab With Topping = 92 psf

IBC Fire Ratings	Unrestrained 2 hours				
	Restrained 4 hours				
Section Properties					
A=362 in²	Yt=5.46 in		b=14.6 in		
I=5473 in⁴	Yb=6.54 in		wt=92 psf		
ϕM_n ft-k/ft	**33.19**	**43.22**	**52.69**	**60.05**	**72.6**
Series	**1.63E-10706T**	**1.63E-10708T**	**1.63E-10710T**	**1.63E-10808T**	**1.63E-10810T**
Span in Feet	**Allowable Superimposed Load In lbs/ft²**				
17	469				
18	439				
19	391	412			
20	346	388			
21	307	366			
22	274	346			
23	245	328			
24	219	306	312		
25	196	277	296		
26	176	251	282		
27	159	227	269		
28		207	252	256	
29		188	238	245	
30		171	221	234	
31		156	205	220	225
32			188	207	216
33			173	194	207
34			158	179	199
35			143	162	188
36				148	180
37				134	165
38					151
39					138
40					126
41					115

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"

Issued: 11/1/2021

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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.