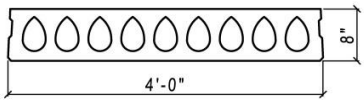
Ultralight Load Table
8" Thick
1.63" Strand Cover



No Structural Topping
Dead Load Weight of Slab = 61 psf

IBC Fire Ratings	Unrestrained 2 hours				
	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	15.11	19.94	25.86	31.37	35.28
Series	1.63F-8606	1.63F-8706	1.63F-8708	1.63F-8710	1.63F-8808
Span in Feet	Allowable Superimposed Load In lbs/ft^2				
12	479				
13	402	484			
14	340	427	476		
15	290	380	423	462	
16	250	340	378	413	425
17	216	299	341	371	392
18	188	262	309	336	354
19	164	230	280	304	322
20	143	204	257	278	295
21	126	180	238	257	269
22	110	160	217	234	248
23	97	143	199	218	231
24	85	127	179	202	212
25		114	161	188	199
26		102	146	176	183
27		91	132	164	173
28			119	154	161
29			108	141	153
30			98	129	142
31				118	132
32				108	120
33				98	110
34					101
35					92

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

IBC Fire Ratings	Unrestrained 2 hours				
	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	19.87	26.2	33.88	40.97	46.44
Series	1.63F-8606T	1.63F-8706T	1.63F-8708T	1.63F-8710T	1.63F-8808T
Span in Feet	Allowable Superimposed Load In lbs/ft^2				
14	442	460			
15	377	425			
16	323	394			
17	279	367			
18	242	340			
19	211	298	322		
20	184	263	302		
21		233	285		
22		206	269		
23		183	255		
24			230	241	
25			207	229	
26			186	218	
27				207	
28				192	
29				171	188
30					173
31					155

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.