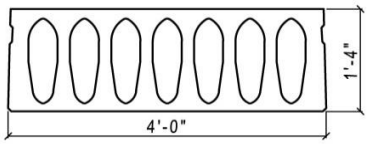
Ultralight Load Table
16" Thick
2.00" Strand Cover



No Structural Topping
Dead Load Weight of Slab = 105 psf

IBC Fire Ratings	Unrestrained 3 hours				
	Restrained 4 hours				

Section Properties

A = 433 in² Yt = 8.11 in b = 16 in
I = 12493 in⁴ Yb = 7.89 in wt = 105 psf

ϕM_n ft-k/ft	61.37	87.16	107.22	123.73	131.71
Series	2.0G-16708	2.0G-16808	2.0G-16810	2.0G-16812	2.0G-16814
Span in Feet	Allowable Superimposed Load In lbs/ft^2				
29	286	346	357		
30	262	323	341		
31	241	305	327		
32	221	285	314		
33	203	270	299		
34	187	253	280	289	
35	172	238	264	278	
36	158	227	250	268	
37	145	213	236	258	
38	138	203	224	245	
39	123	192	213	231	239
40		181	201	221	231
41		173	192	209	224
42		165	182	198	214
43		156	172	189	203
44		146	164	180	194
45		137	158	171	186
46		127	149	162	176
47			142	157	170
48			136	149	162
49			131	142	157
50			124	137	153
51			118	131	145
52				128	142
53				121	136
54				116	129
55				110	123
56					118
57					112
58					107
59					102

2" Bonded Structural Topping
Dead Load Weight of Slab With Topping = 130 psf

IBC Fire Ratings	Unrestrained 3 hours				
	Restrained 4 hours				

Section Properties

A = 518 in² Yt = 8.61 in b = 16 in
I = 18409 in⁴ Yb = 9.38 in wt = 130 psf

ϕM_n ft-k/ft	69.37	98.18	120.36	141.74	162.35
Series	2.0G-16708T	2.0G-16808T	2.0G-16810T	2.0G-16812T	2.0G-16814T
Span in Feet	Allowable Superimposed Load In lbs/ft^2				
30	288	375			
31	263	349	360		
32	241	329	345		
33	221	307	332		
34	203	291	319		
35	186	272	303		
36		256	284	295	
37		242	270	284	
38		227	254	274	
39		217	241	264	
40		204	228	249	254
41		191	214	237	245
42		181	205	224	237
43			193	212	229
44			182	202	219
45			175	192	210
46			166	181	198
47				173	191
48				165	181
49				156	175
50				151	171
51					162
52					158
53					150
54					142

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.