SPANCRETE
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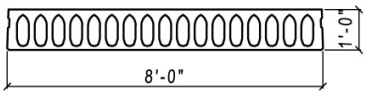
Load Table
96" Wide 12" Thick
1.0" Strand Cover



No Structural Topping
Dead Load Weight of Slab = 80 psf

IBC Fire Ratings	Unrestrained 1 hour
	Restrained 4 hours

Section Properties

A = 661 in² Yt = 5.7 in b = 32.6 in
I = 10915 in⁴ Yb = 6.3 in wt = 80 psf

ϕM_n ft-k/ft	36.07	47.45	51.25	66.81	74.3
Series	1.0H 12712	1.0H-12716	1.0H-12812	1.0H-12816	1.0H 12818
Span in Feet	Allowable Superimposed Load In lbs/ft²				
18	497				
19	440				
20	391				
21	349	464	474		
22	313	425	439		
23	281	389	406	451	
24	253	352	382	416	
25	229	320	350	391	411
26	207	291	319	362	381
27	187	265	292	343	359
28	170	243	267	319	334
29	154	222	245	304	317
30	140	204	225	285	296
31	128	187	207	271	282
32	116	172	190	256	266
33	106	158	175	241	251
34	96	145	162	229	241
35	87	134	149	212	227
36	79	123	138	197	213
37		113	127	183	199
38		104	117	170	185
39		96	109	158	172
40		88	100	147	161
41		81	92	137	150
42			85	127	140
43			79	118	130
44				110	122
45				102	114
46				95	106
47				88	99
48				82	92
49				76	86
50					80
51					74

2" Bonded Structural Topping
Dead Load Weight of Slab With Topping = 105 psf

IBC Fire Ratings	Unrestrained 1 hour
	Restrained 4 hours

Section Properties

A = 835 in² Yt = 6.33 in b = 32.6 in
I = 17032 in⁴ Yb = 7.67 in wt = 105 psf

ϕM_n ft-k/ft	42.32	55.47	59.85	77.86	86.5
Series	1.0H-12712T	1.0H-12716T	1.0H-12812T	1.0H-12816T	1.0H-12818T
Span in Feet	Allowable Superimposed Load In lbs/ft²				
20	450	496			
21	401	469			
22	358	444			
23	321	421			
24	289	401			
25	260	365	380		
26	234	332	363		
27	212	302	332		
28	191	275	303		
29	173	251	277		
30	156	229	254	304	
31	141	210	233	291	
32	128	192	214	280	
33		176	196	269	
34		161	180	258	
35		148	166	239	249
36		135	152	222	240
37			140	205	225
38			129	188	208
39				173	192
40				159	177
41				146	163
42				134	150
43				122	138
44				112	127
45					116
46					106
47					108

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.