

12" HOLLOW CORE

Strand Pattern Designation

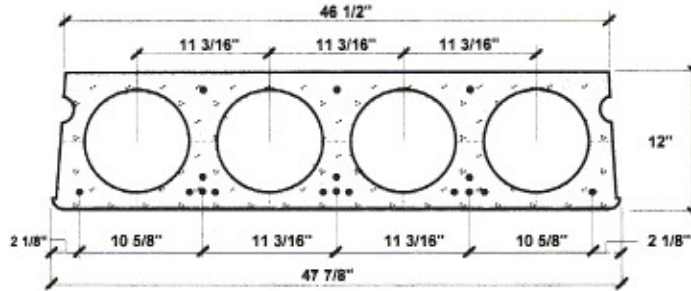
- No. of Strands (4)
- S = Straight Pattern
- 48-S
- Diameter of Steel in 16ths

Safe loads should include a dead load of 10 psf for untopped members and 15 psf for topped members. Long-time cambers include superimposed dead load, but do not include live load.

Key

- 101 - Safe Superimposed Service Load (psf)

4'-0" x 12"
Normal Weight Concrete



$f'_c = 7000$ psi
 $f'_{ci} = 4350$ psi

Low-relaxation strand

Section Properties

Untopped Topping

A = 277 in² 96.0 in²
I = 5153 in⁴ 7847.2 in⁴
Y_b = 8.00 in 7.38 in
Y_t = 8.00 in 4.62 in
E = 5072 k/in² 3586 k/in²
W = 150 lb./ft³ 150 lb./ft³

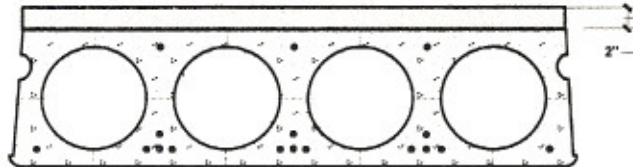
12" H.C.

Table of Safe Superimposed Service Loads (psf)

STRAND PATTERN	Span, FT.																				
	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
48-S	101	82	66	52	41	31	23	15													
58-S	140	116	96	79	65	53	42	33	25	18	12										
68-S	178	149	125	105	88	74	62	51	41	33	26	19	14								
78-S	215	182	154	131	111	95	80	68	57	48	39	32	25	19	14						
88-S	251	214	182	156	134	115	99	85	73	62	52	44	36	30	24	18	13				
98-S	286	244	209	180	156	135	117	101	87	75	65	55	47	40	33	27	21	16	12		
108-S		270	232	210	174	151	132	115	100	87	76	65	56	48	41	34	28	23	18	14	
128-S		293	253	219	190	166	145	127	111	97	85	74	64	56	48	41	34	29	23	19	14
148-S		285	246	213	185	161	141	123	107	94	82	71	62	53	45	39	32	27	22	17	13

No Topping

See Hollow Core Section Above for Dimensions



$f'_c = 7000$ psi
 $f'_{ci} = 4350$ psi
 $f'_c = 3500$ psi (topping)

Low-relaxation strand

12" H.C. + 2

Table of Safe Superimposed Service Loads (psf)

STRAND PATTERN	Span, FT.																				
	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
48-S	108	85	66	50	37	26															
58-S	151	123	100	81	64	50	38	28													
68-S	193	160	133	110	90	74	60	47	36	27											
78-S	234	196	165	138	116	97	80	66	54	43	33	26									
88-S	274	231	196	166	141	119	101	85	71	58	48	38	28								
98-S		266	226	193	165	141	121	103	87	74	62	51	41	30	20						
108-S		300	256	220	189	163	141	121	104	89	76	64	54	43	32	22					
128-S			289	233	202	178	153	134	116	101	87	75	64	54	42	32	23				
148-S				271	237	208	182	160	140	123	108	94	82	71	61	49	39	29	21		

2" Normal Weight Concrete Topping

These tables are for general descriptive purposes only. Actual design load tables are dependent on local codes and standards, material properties and product end usage.

 **BETHLEHEM**
PRESTRESS

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