

Load Table

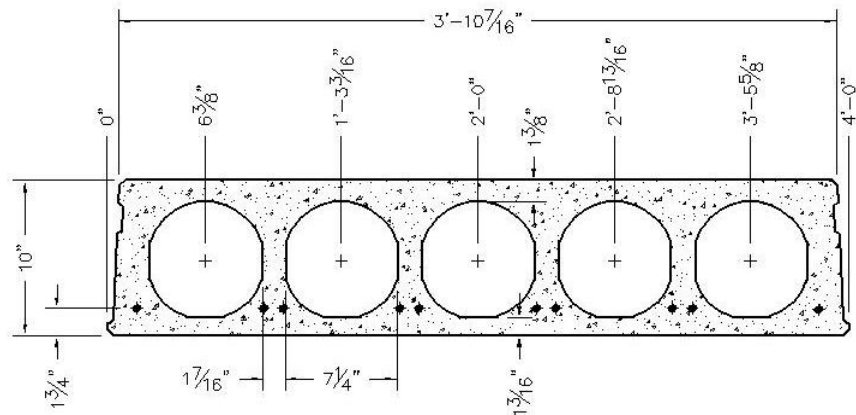
Maximum Uniformly Distributed Load (psf)

Strand Pattern	Strand Area(in ²)	Clear Span (Feet)											
		24	26	28	30	32	34	36	38	40	42	44	46
10S108-1.75	1.530	318	290	265	244	216	184	156	133	113	96	82	69
10S88-1.75	1.224	294	267	236	199	169	143	121	101	85	70	-	-
10S68-1.75	0.918	251	206	171	142	118	99	83	69	-	-	-	-
10S48-1.75	0.612	156	125	101	81	65	-	-	-	-	-	-	-

Estimated Camber at Time of Erection (inches)

Strand Pattern	Strand Area(in ²)	Clear Span (Feet)											
		24	26	28	30	32	34	36	38	40	42	44	46
10S108-1.75	1.530	0.94	1.04	1.13	1.21	1.27	1.29	1.29	1.25	1.16	1.03	0.83	0.57
10S88-1.75	1.224	0.69	0.75	0.80	0.83	0.83	0.80	0.74	0.63	0.48	0.27	-	-
10S68-1.75	0.918	0.45	0.46	0.46	0.44	0.39	0.30	0.18	0.01	-	-	-	-
10S48-1.75	0.612	0.20	0.18	0.13	0.06	-0.05	-	-	-	-	-	-	-

- A_c = 244 in²
- b_w = 10.63 in
- I_g = 3080 in⁴
- y_b = 5.1 in
- w_t = 65 psf
- f'_{ci} = 5000 psi
- f'_c = 7000 psi
- f_{pu} = 270 ksi



Notes:

1. Tabulated safe uniform distributed loads in this table are based on ACI 318-02/318R-02.
2. All calculated loads are considered as superimposed live load based on 1.2DL + 1.6LL.
3. Topping weight is not included in tabulated values. Size and location of openings may effect table capacity.
4. All prestressing strand is stressed to 70% of f_{pu}.
5. Tabulated loads in the shaded region have live load deflections greater than L/360.
6. Plank is 1 hour fire rated per IBC 2003. For higher ratings please contact KP.
7. For longer spans or conditions not covered by this table please contact KP.



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ENG:
PLANT:
FIELD:
PRES:

10" LIGHT CROSS SECTION ELEMATIC HOLLOW CORE PLANK	
DATE: 1/12/10	FILE NAME: 1305