

500 South Park Avenue South Beloit, IL 61080 800.236.1072 msprecast.com

10" X 48" HOLLOW CORE

2" STRUCTURAL TOPPING (4 HOUR FIRE RATING)

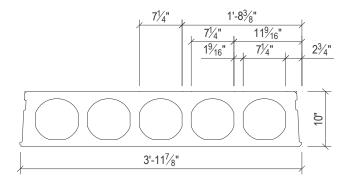
COMPOSITE DESIGN
SAFE LOAD TABLE

Standard Designation	#/Size of 7-Wire	Strand Area Sq.ln.	Mu in Ft Kips per unit	SIMPLE SPAN IN FEET-CENTER TO CENTER OF END BEARINGS																														
	strand			10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1.75-108	10-1/2	1.530	254.02	755	680	617	564	519	479	445	414	387	363	341	322	304	287	257	229	204	183	163	145	129	115	102	90	79	69	60	52	44		
1.75-28410	2-1/2,46	1.174	204.16	755	666	577	507	448	400	359	324	294	268	245	225	231	203	178	157	138	121	105	92	79	68	58	49	40						
1.75-68	6-1/2	0.918	165.05	600	512	445	390	346	308	276	275	249	250	216	187	162	140	121	104	88	75	63	52	42										

UNIFORMLY DISTRIBUTED SUPERIMPOSED LOAD IN LBS. PER SQ. FT.

(Includes the live load plus dead load that is in addition to the weight of the grouted slabs in place and 2" topping.)

FOR LOADS & SPANS NOT SHOWN CONTACT MID-STATES CONCRETE INDUSTRIES



HOLLOW CORE: F'c = 9000 psi, WEIGHT = 72 psf

TOPPING: F'c = 4000 psi, WEIGHT = 25 psf

- 1- Dead Load, 97 psf grouted weight of structural unit.
- 2- Tabulated loads are based on ACI318-14 where M_u =1.2 M_d +1.6 M_L and with all loads superimposed on the structural section considered as live load.
- 3- Camber is a result of the design rather than a design requirement. Heavy superimposed loads & / or long spans may cause excessive camber.

Contact Mid-States Concrete Industries for more specific camber information.

- 4- Shaded blue values are governed by shear.
- 5- Shaded red values governed by Mcr criteria at partially developed strands.
- 6- All strand stresses to 65% of ultimate.

