

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

## 10" X 48" HOLLOW CORE

**COMPOSITE DESIGN** 

2" STRUCTURAL TOPPING

(3 HOUR FIRE RATING)

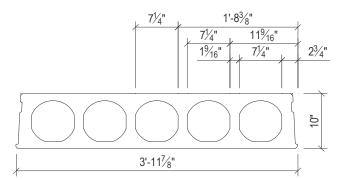
SAFE LOAD TABLE

Standard	#/Size of 7-Wire	Strand Area Sq.ln.	Mu in Ft Kips per unit		SIMPLE SPAN IN FEET-CENTER TO CENTER OF END BEARINGS																													
Designation	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	272	258	246	234	223	209	189	171	154	139	126	113	102	91	81	72	64
1.75-28410	2-1/2,46	1.174	204.16	755	666	577	507	448	400	359	324	294	268	245	225	304	283	252	225	201	179	160	142	127	112	99	88	77	67	58	50	42		
1.75-68	6-1/2	0.918	165.05	600	512	445	390	346	308	276	275	249	268	245	225	232	204	180	158	139	122	106	93	80	69	59	49	41						

## 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



1- Dead Load, 97 psf grouted weight of structural unit.

2- Tabulated loads are based on ACI318-14 where  $\rm M_u$ =1.2  $\rm M_d$ +1.6 $\rm M_L$  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.



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