



MID-STATES
CONCRETE INDUSTRIES

500 South Park Avenue

South Beloit, IL 61080

800.236.1072

msprecast.com

10" X 48" HOLLOW CORE

2" STRUCTURAL TOPPING

(2 HOUR FIRE RATING)

COMPOSITE DESIGN

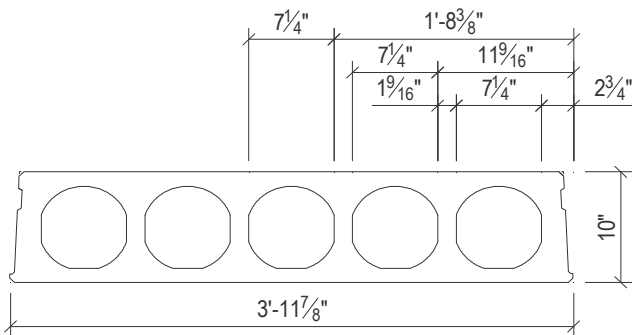
SAFE LOAD TABLE

Standard Designation	#/Size of 7-Wire strand	Strand Area Sq.In.	Mu in Ft.-Kips per unit	SIMPLE SPAN IN FEET-CENTER TO CENTER OF END BEARINGS																																			
				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	213	203	194	186	178	171	164	149	134	121	109	97					
1.75-28410	2-1/2,4-.6	1.174	204.16	755	666	577	507	448	400	359	324	294	268	245	225	304	287	272	258	246	234	223	213	201	180	162	145	129	115	102	90	79	69	59					
1.75-68	6-1/2	0.918	165.05	600	512	445	390	346	308	276	275	249	268	245	225	304	287	272	257	232	210	190	171	152	135	119	105	91	79	68	58	49	40						

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 M_{cr} criteria at partially developed strands.

6- Shaded yellow values governed by flexural tension at service loads.

7- All strand stresses to 65% of ultimate.

