



MID-STATES
CONCRETE INDUSTRIES

500 South Park Avenue

South Beloit, IL 61080

800.236.1072

msprecast.com

12" X 48" HOLLOW CORE

2" STRUCTURAL TOPPING

(2 HOUR FIRE RATING)

COMPOSITE DESIGN

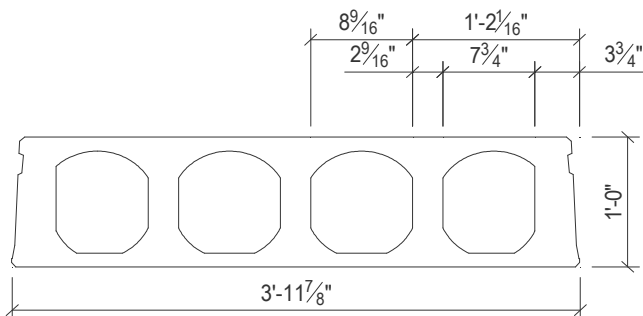
SAFE LOAD TABLE

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																														
				20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1.75-28910	2-1/2,9-.6	2.259	429.82	460	430	408	388	368	349	332	316	302	291	278	265	254	243	236	227	218	209	200	193	187	181	175	169	163	157	151	145	134	124	114
1.75-28610	2-1/2,6-.6	1.608	328.38	460	430	408	388	368	349	332	316	302	291	278	265	254	243	236	227	218	209	195	179	164	150	137	124	113	103	93	84	75	67	59
1.75-88	8-1/2	1.224	260.60	460	430	408	388	368	349	332	316	302	291	278	261	240	221	204	187	170	154	139	126	113	102	91	81	72	63					
1.75-58	5-1/2	0.765	171.17	457	407	364	326	293	264	237	212	190	170	152	136	121	107	95	84															

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 = 79 psf

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

1- Dead Load, 104 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. No ties required to topping.

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

6- All strand stresses to 65% of ultimate.

