MID-STATES
CONCRETE INDUSTRIES

500 South Park Avenue
South Beloit, IL 61080
800.236.1072
msprecast.com
03.31.17

10" X 48" HOLLOWCORE

2" STRUCTURAL TOPPING

(2 HOUR FIRE RATING)

COMPOSITE DESIGN

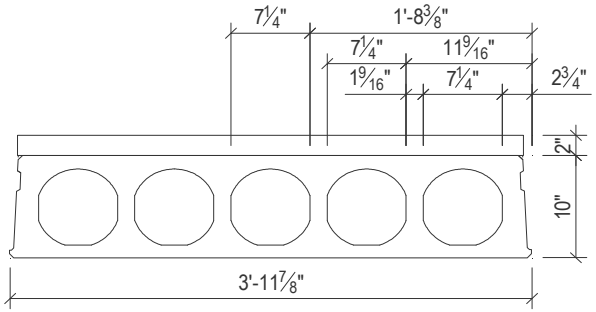
SAFE LOAD TABLE

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																				229	219	209	200	192	183	168	155	143	131	121	111
1.75-28410	2-1/2,4-.6	1.174	204.16													326	308	292	278	264	251	231	210	191	174	159	145	132	120	110	100	91	82	74
1.75-68	6-1/2	0.918	165.05									415	389	366	345	325	291	261	235	211	191	172	155	140	126	114	103	92	83	74	66	59	52	46
1.75-67	6-7/16	0.690	127.79	807	727	660	604	555	513	476	444	388	341	300	265	235	208	185	165	147	130	116	103	91	81	71	62	54	47	40	34	27	21	

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



HOLLOWCORE: F'c = 9000 psi, WEIGHT = 72 psf
GROUT: F'c = 5000 psi
Topping: F'c = 4000 psi, WEIGHT = 25 psf

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

2- Tabulated loads are based on ACI318-02 where M_u=1.4 M_d+1.7M_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- Loads to the left of the solid stepped line are governed by shear.

5- Loads underlined are controlled by permissible flexural tension at service loads.

PCI Certified Plant