MID-STATES
CONCRETE INDUSTRIES

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

8" X 48" HOLLOWCORE

2" STRUCTURAL TOPPING

(3 HOUR FIRE RATING)

COMPOSITE DESIGN

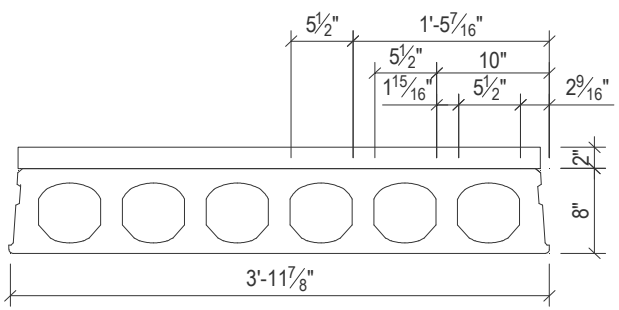
SAFE LOAD TABLE

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
1.75-28510	2-1/2,5-.6	1.391	179.79												259	244	231	218	207	195	175	157	141	127	114	102	91	81	72	64	56	49	43	37
1.75-78	7-1/2	1.071	145.84							360	335	313	293	275	251	222	196	174	154	136	121	107	94	83	72	63	55	47	40	33	27	22		
1.75-77	7-7/16	0.805	114.46							356	306	265	229	199	173	151	131	114	99	86	74	63	53	45	37	30	23							

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 = 62 psf
GROUT: F'c = 5000 psi
Topping: F'c = 4000 psi, WEIGHT = 25 psf

1- Dead Load, 87 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.

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