



**MID-STATES**  
CONCRETE INDUSTRIES

500 South Park Avenue

South Beloit, IL 61080

800.236.1072

msprecast.com

## **8" X 48" HOLLOW CORE**

**(2 HOUR FIRE RATING)**

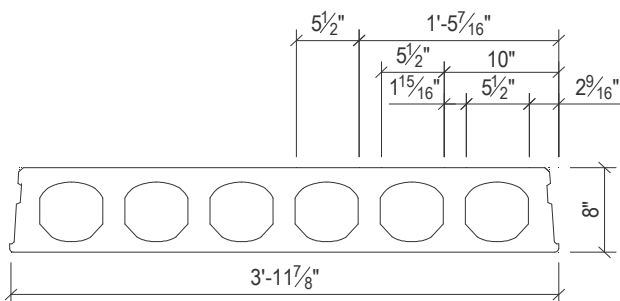
**SAFE LOAD TABLE**

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	145.04	545	470	408	358	315	285	256	232	211	289	272	257	243	231	219	209	199	186	168	153	139	126	114	104	94	86										
1.75-78	7-1/2	1.071	115.67	463	396	344	303	269	240	215	195	177	289	272	257	243	222	199	179	160	144	130	117	105	94	85	76												

### **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.)

**FOR LOADS & SPANS NOT SHOWN CONTACT MID-STATES CONCRETE INDUSTRIES**



HOLLOW CORE: F'c = 9000 psi, WEIGHT = 62 psf

- 1- Dead Load, 62 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<sub>cr</sub> criteria at partially developed strands.
- 6- Shaded yellow values governed by flexural tension at service loads.
- 7- All strand stresses to 65% of ultimate.









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## **8" X 48" HOLLOW CORE**

**2" STRUCTURAL TOPPING**

**(3 HOUR FIRE RATING)**

**COMPOSITE DESIGN**

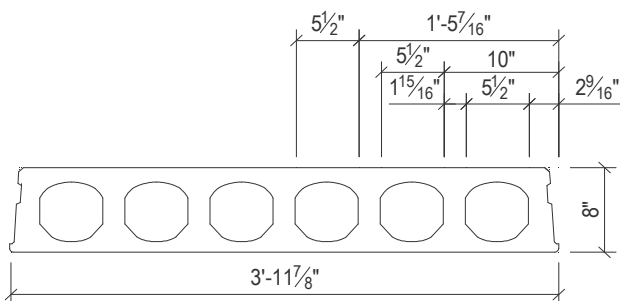
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1.75-28510	2-1/2,5-.6	1.391	179.79	632	568	515	457	403	359	322	291	261	298	280	263	248	235	222	209	187	167	149	133	119	106	94	83	73	64	56	48	41				
1.75-78	7-1/2	1.071	145.84	593	507	440	386	341	305	272	246	223	298	277	243	214	188	166	146	128	113	99	86	75	64	55	47	39								

### **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 = 62 psf

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

1- Dead Load, 87 psf grouted weight of structural unit.

2- Tabulated loads are based on ACI318-14 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 red values governed by M<sub>cr</sub> criteria at partially developed strands.

6- All strand stresses to 65% of ultimate.





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## **8" X 48" HOLLOW CORE**

**2" STRUCTURAL TOPPING**

**(4 HOUR FIRE RATING)**

**COMPOSITE DESIGN**

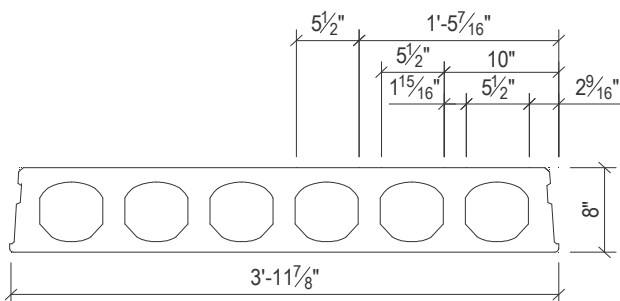
**SAFE LOAD TABLE**

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																																			
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1.75-28510	2-1/2,5-.6	1.391	179.79	632	568	515	457	403	359	322	291	261	298	280	246	217	191	168	148	130	115	100	88	76	66	57	48	40											
1.75-78	7-1/2	1.071	145.84	593	507	440	386	341	305	272	246	223	232	201	174	151	130	113	97	83	71	60	50	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**



HOLLOW CORE: F'c = 9000 psi, WEIGHT = 62 psf

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

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- 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.
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- 4- Shaded blue values are governed by shear. No ties required to topping.
- 5- Shaded red values governed by  $M_{cr}$  criteria at partially developed strands.
- 6- All strand stresses to 65% of ultimate.

