



**MID-STATES**  
CONCRETE INDUSTRIES

500 South Park Avenue

South Beloit, IL 61080

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## **12" X 48" HOLLOW CORE**

**2" STRUCTURAL TOPPING**

**(4 HOUR FIRE RATING)**

**COMPOSITE DESIGN**

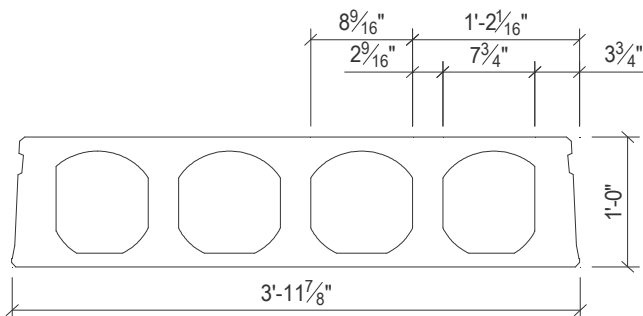
**SAFE LOAD TABLE**

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																															
				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	244	223	204	187	171	156	142	130	118	108	98	88	80	72	64	57	50	44	38	
1.75-28610	2-1/2,6-.6	1.608	328.38	460	430	408	386	346	310	279	251	226	204	184	165	149	134	120	107	96	85	75	66	58	50	43									
1.75-88	8-1/2	1.224	260.60	395	349	309	274	243	216	191	170	151	133	118	104	91	79	69	59	50	42														
1.75-58	5-1/2	0.765	171.17	213	184	158	136	116	99	84	70	58	47	37																					

### **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- All strand stresses to 65% of ultimate.

