



12" X 48" HOLLOWCORE

**2" STRUCTURAL TOPPING
(3 HOUR FIRE RATING)**

**COMPOSITE DESIGN
SAFE LOAD TABLE**

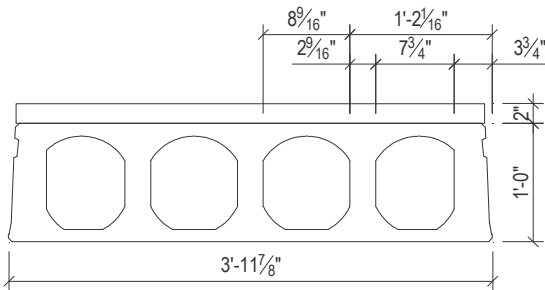
Standard Designation	#/Size of 7-Wire strand	Strand Area Sq.In.	Mu in Ft.-Kips per unit	SIMPLE SPAN IN FEET-CENTER TO CENTER OF END BEARINGS																															
				20	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
1.75-28910	2-1/2,9-.6	2.259	429.82		458	437	419	401	385	362	333	307	283	261	241	223	206	190	176	162	150	138	127	117	108	99	90	82	75	68	62	55	49	44	
1.75-28610	2-1/2,6-.6	1.608	328.38	621	381	346	314	286	260	237	216	197	180	164	149	135	123	112	101	91	82	73	65	58	51	44	38	33	27	22					
1.75-88	8-1/2	1.224	260.60	530	271	244	220	198	178	160	144	129	116	103	92	81	72	63	55	47	40	33	27	21											
1.75-78	7-1/2	1.071	231.84	455	227	203	181	162	144	128	114	101	89	78	68	59	51	43	36	29	23														
1.75-58	5-1/2	0.765	171.17	301	135	118	102	88	76	64	54	45	36	28	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

- 1- Dead Load, 104 psf grouted weight of structural unit.
- 2- Tabulated loads are based on ACI318-02 where $M_u = 1.4 M_d + 1.7 M_L$ 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- 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.



HOLLOWCORE: F'c = 9000 psi, WEIGHT = 79 psf
GROUT: F'c = 5000 psi
TOPPING: F'c = 4000 psi, WEIGHT = 25 psf

