



MID-STATES
CONCRETE INDUSTRIES

500 South Park Avenue

South Beloit, IL 61080

800.236.1072

msprecast.com

12" X 48" HOLLOW CORE

(2 HOUR FIRE RATING)

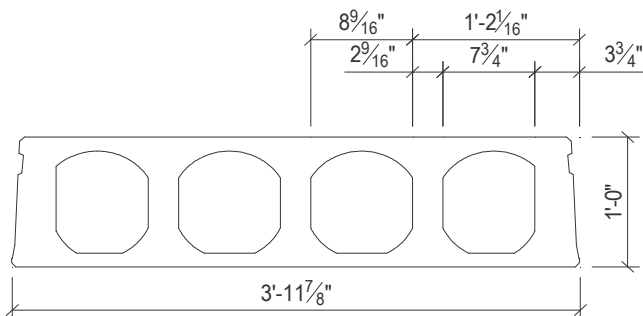
SAFE LOAD TABLE

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																														
				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	392.42	493	466	442	421	401	382	365	349	335	321	309	297	286	275	265	256	247	239	231	224	217	210	201	188	176	165	154	144	135	127	118
1.75-28610	2-1/2,6-.6	1.608	292.82	493	466	442	421	401	382	365	349	335	321	309	297	286	271	251	232	215	200	185	172	159	148	137	127	118	109	101	94	87	80	74
1.75-88	8-1/2	1.224	228.62	493	466	442	421	401	382	363	333	305	281	258	238	220	203	187	172	158	146	134	123	113	104	95	87	80	73					
1.75-58	5-1/2	0.765	147.29	401	358	321	289	260	234	210	189	170	153	138	124	112	101	90	81															

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 = 79 psf

- 1- Dead Load, 79 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 yellow values governed by flexural tension at service loads.
- 6- All strand stresses to 65% of ultimate.



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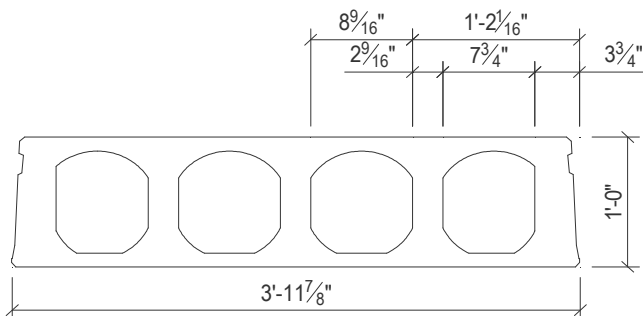
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1.75-28910	2-1/2,9-.6	2.259	392.42	493	466	442	421	401	382	365	349	335	321	309	297	286	275	256	237	220	204	189	176	163	152	141	131	121	112	104	96	89	82	76
1.75-28610	2-1/2,6-.6	1.608	292.82	493	466	442	421	401	370	336	306	279	255	233	213	195	179	164	150	138	126	115	106	96	88	80	73	66	60	54	48	43		
1.75-88	8-1/2	1.224	228.62	461	411	367	329	296	266	240	217	196	178	161	146	132	119	108	97	88	79	71	63	56	49	43								
1.75-58	5-1/2	0.765	147.29	262	231	203	179	158	140	123	108	95	83	73	63	54	46																	

UNIFORMLY DISTRIBUTED SUPERIMPOSED LOAD IN LBS. PER SQ. FT.

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12" X 48" HOLLOW CORE

(4 HOUR FIRE RATING) see note 6

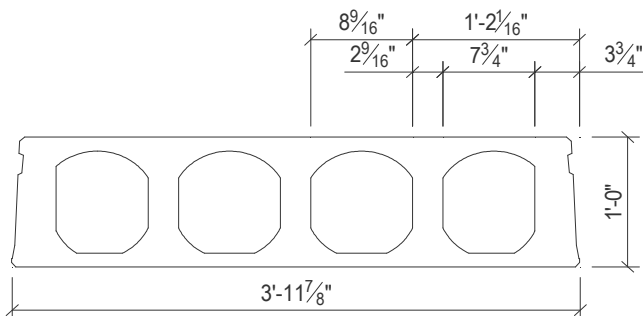
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1.75-28610	2-1/2,6-.6	1.608	292.82	493	466	376	338	304	274	247	223	202	183	166	150	136	123	112	101	91	82	74	66	59	52	46	40							
1.75-88	8-1/2	1.224	228.62	344	305	270	241	215	192	171	153	137	122	109	97	86	76	67	59	52	45													
1.75-58	5-1/2	0.765	147.29	188	163	142	123	106	92	79	67	57	48	40																				

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.)

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- 4- Shaded blue values are governed by shear.
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- 6- Plank needs cementitious topping for 4 hr. heat transmission to be met.



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2" STRUCTURAL TOPPING

(2 HOUR FIRE RATING)

COMPOSITE DESIGN

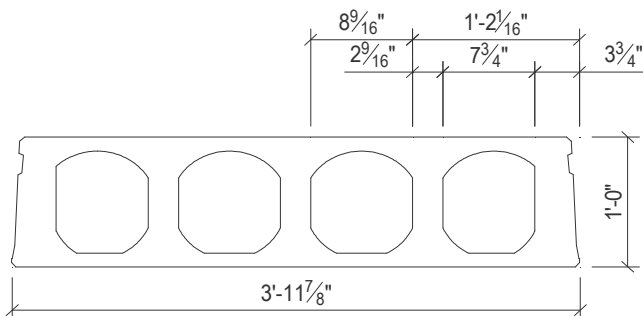
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1.75-28910	2-1/2,9-.6	2.259	429.82	460	430	408	388	368	349	332	316	302	291	278	265	254	243	236	227	218	209	200	193	187	181	175	169	163	157	151	145	134	124	114	
1.75-28610	2-1/2,6-.6	1.608	328.38	460	430	408	388	368	349	332	316	302	291	278	265	254	243	236	227	218	209	195	179	164	150	137	124	113	103	93	84	75	67	59	
1.75-88	8-1/2	1.224	260.60	460	430	408	388	368	349	332	316	302	291	278	261	240	221	204	187	170	154	139	126	113	102	91	81	72	63						
1.75-58	5-1/2	0.765	171.17	457	407	364	326	293	264	237	212	190	170	152	136	121	107	95	84																

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.)

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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.

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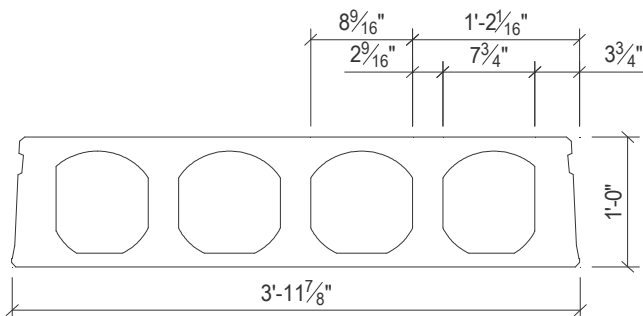
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1.75-28610	2-1/2,6-.6	1.608	328.38	460	430	408	388	368	349	332	316	302	286	260	237	216	197	180	164	149	135	123	112	101	91	82	73	65	58	51	44			
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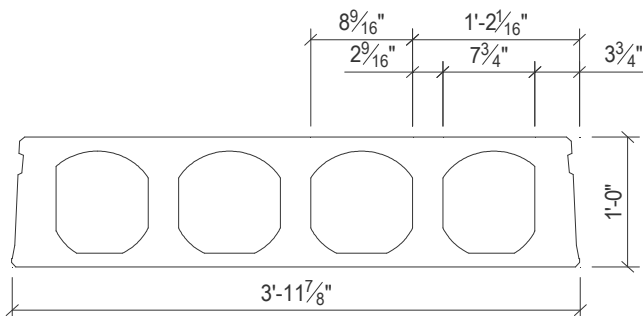
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