

8" Wells Hollowcore Load Tables

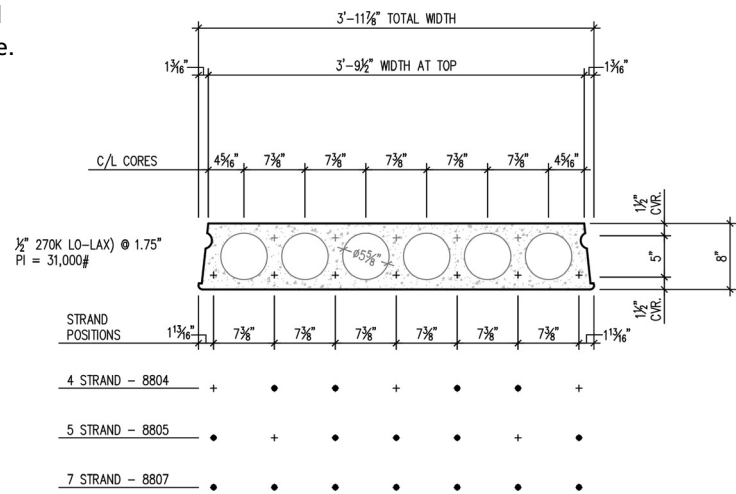
Allowable load in PSF. These tables are for general descriptive purposes only. Actual design load tables are dependent on local codes and standards, material properties and product end usage.

- Blue shaded values are controlled by shear. Filling of cores may be requested

Series Designation Example

8808T

- INDICATES COMPOSITE TOPPING
- NUMBER OF STRANDS
- STRAND DIAMETER (16THS)
- PLANK THICKNESS



1.5 Hour Fire Rating, No Topping *If hollowcore can be considered restranded, use this load chart for fire ratings up to 3 hours*

Series	Area of Steel (In ²)	Mn (kip-ft.)	Span in Feet																																		
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35													
8804	0.612	72.36	340	306	278	253	231	206	182	161	142	126	112	100	89	79	71	63																			
8805	0.765	88.84	427	385	350	319	293	263	233	207	185	165	148	133	120	108	97	87	79	71	64	57	51	46													
8807	1.071	119.6	530	486	440	392	352	318	289	263	241	222	204	189	175	161	146	133	122	101	92	83	75	68													

2 Hour Fire Rating, No Topping

Series	Area of Steel (In ²)	Mn (kip-ft.)	Span in Feet																																			
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35														
8804	0.612	30.01	278	234	198	168	143	122	104	89	75	63	53	44	36																							
8805	0.765	37.19	359	305	260	223	192	166	144	125	108	94	81	70	60	51	43	36																				
8807	1.071	51.16	517	443	381	331	288	252	222	195	172	152	135	119	105	93	82	72	64	56	48	42	36	30														

3 Hour Fire Rating, No Topping

Series	Area of Steel (In ²)	Mn (kip-ft.)	Span in Feet																																				
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35															
8804	0.612	17.44	135	110	89	71	57	45	34																														
8805	0.765	21.67	183	151	125	104	86	71	58	47	37																												
8807	1.071	29.98	277	233	198	168	143	122	104	88	75	63	53	44	36																								

1.5 Hour Fire Rating, 2" Minimum Composite Topping *If hollowcore can be considered restranded, use this load chart for fire ratings up to 3 hours*

Series	Area of Steel (In ²)	Mn (kip-ft.)	Span in Feet																																			
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35														
8804T	0.612	92.79	431	390	356	324	295	258	227	200	176	156	138	122	108	96	85	75	65	57	50	43	37	31														
8805T	0.765	112.9	546	493	447	410	372	328	289	257	228	203	182	162	145	130	117	104	93	83	74	66	59	52														
8807T	1.071	149.8	687	633	569	506	452	406	367	333	304	278	255	235	214	193	175	159	145	131	119	109	99	90														

2 Hour Fire Rating, 2" Minimum Composite Topping

Series	Area of Steel (In ²)	Mn (kip-ft.)	Span in Feet																																			
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35														
8804T	0.612	39.12	356	299	252	213	181	153	130	109	92	77	63	51	41	32																						
8805T	0.765	48.32	460	390	332	284	244	210	181	156	134	115	99	84	71	60	49	40	32																			
8807T	1.071	65.96	660	564	485	419	365	318	279	245	215	189	167	147	129	113	99	87	75	65	55	47	39	32														

3 Hour Fire Rating, 2" Minimum Composite Topping

Series	Area of Steel (In ²)	Mn (kip-ft.)	Span in Feet																																				
			14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35															
8804T	0.612	22.83	171	138	111	88	69	53	39																														
8805T	0.765	28.32	233	192	158	130	107	87	70	55	42	31																											
8807T	1.071	39.01	355	298	251	212	180	152	129	109	91	76	63	51	41	31																							

Estimated Camber *at erection, cambers in inches*

Series	Span in Feet																																					
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35																
8804	0.19	0.21	0.23	0.24	0.26	0.27	0.27	0.27	0.27	0.26	0.24	0.22	0.18	0.14	0.09	0.02																						
8805	0.25	0.28	0.31	0.33	0.36	0.38	0.4	0.41	0.42	0.42	0.42	0.41	0.4	0.37	0.33	0.29	0.23	0.16	0.07	-0.7	-1.15	-1.28																
8807	0.37	0.41	0.46	0.51	0.55	0.6	0.64	0.68	0.72	0.75	0.78	0.8	0.82	0.82	0.82	0.81	0.79	0.76	0.71	0.66	0.58	0.49																

Selection Properties

Net Area	225.78 IN ²	Strength of Concrete	7,000 psi
Moment of Inertia	1767.9 IN ⁴	Unit Weight of Concrete	150 PCF
Centroid From Slab Bottom	4.00 IN	Ultimate Steel Strength	270 KSI
Section Modules. Top	442.22 IN ³	Strand Jacking Stress	202.5 KSI
Section Modules. Bottom	442.22 IN ³	Strand Type	Low Relaxation
Web Width	12.94 IN	Thermal Resistance	R = 1.34
V/S Ratio	2.13 IN	Sound Transmission Class	STC = 50
Self Weight	63 PSF	Impact Insulation Class	IIC = 28
Strength at Transfer	3,500 PSI		