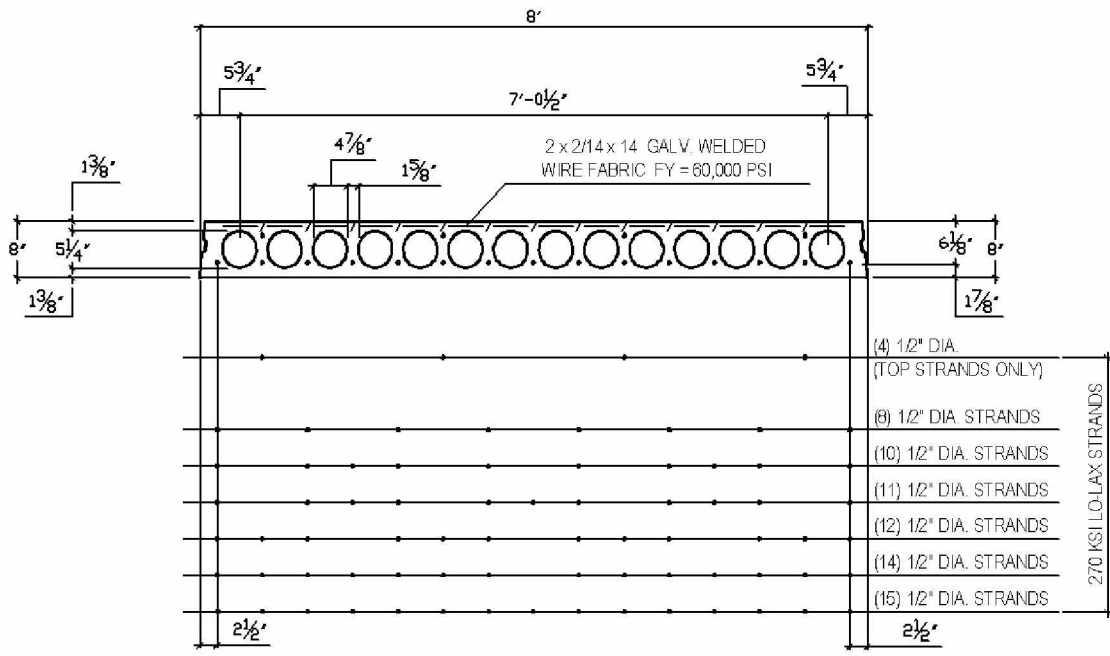
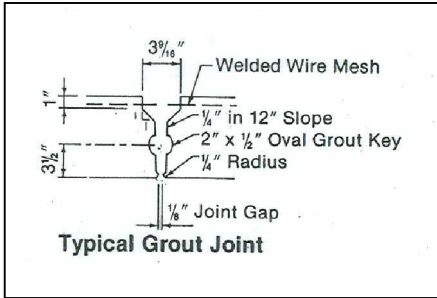


Hollow Core Design Criteria



Concrete Strength, F'ci	3000	psi
Concrete Strength, F'c	5000	psi
Topping Strength, F'c	3500	psi

Area	470		in ²
Yb	3.96		in
V/S	1.09		in
Shear Width, b	27.75		in
Strand Ys	2.13		in
Strand e	1.84		in
Ix	Non-C	Comp.	in ⁴
	3575	6620	
r	2.76	0.00	in
S-top	873	1392	in ³
S-bottom	890	1262	in ³



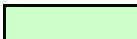
DYNASPAN 8'0" x 8"	Normal Weight Concrete	2-hour Fire Rated
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No topping

No. & Size of 270k Strands Per 8'0" Width	Span, ft.																					
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
12-3/8"	224	193	168	146	127	111	97	85	74	65	56	49	42	36	31	26	22					
14-3/8"	265	229	199	174	153	134	118	104	92	81	72	63	55	49	42	37	32	27				
15-3/8"	284	247	215	188	165	146	129	114	101	89	79	70	62	55	48	42	37	32				
8-1/2"	272	236	206	180	158	139	123	108	96	85	75	66	58	51	45	39	34	29				
10-1/2"	341	297	260	229	202	179	159	141	126	113	101	90	81	72	64	57	51	45	40	35		
11-1/2"	374	326	286	252	223	198	176	157	141	126	113	102	91	82	74	66	59	53	47	42		
12-1/2"	406	354	311	275	243	216	193	173	155	139	125	113	102	92	83	74	67	60	54	49		
14-1/2"	467	408	359	318	282	252	225	202	182	164	148	134	122	110	100	91	82	75	68	61	55	
15-1/2"	496	434	382	338	301	269	241	216	195	176	159	144	131	119	108	98	90	81	74	67	61	

2" Normal Weight topping

No. & Size of 270k Strands Per 8'0" Width	Span, ft.																					
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
12-3/8"	314	273	239	209	185	163	145	128	114	102	90	81	72	64	57							
14-3/8"	367	320	281	247	219	194	173	154	138	123	111	99	89	80	72	64	57					
15-3/8"	393	343	301	266	235	209	186	167	149	134	120	108	98	88	79	71	64	57				
8-1/2"	378	329	289	255	225	200	178	159	142	128	115	103	92	83	75	67	60	54				
10-1/2"	468	410	360	319	283	253	226	203	183	165	149	135	122	111	100	91	83	75	68	62	56	
11-1/2"	511	448	395	349	311	278	249	224	202	182	165	150	136	124	113	103	93	85	78	71	64	
12-1/2"	553	485	428	379	338	302	271	244	220	200	181	165	150	136	125	114	104	95	87	79	72	
14-1/2"	633	555	490	435	388	348	313	283	256	232	211	192	176	161	147	135	124	114	104	96	88	
15-1/2"	671	589	520	462	413	370	333	301	273	248	225	206	188	172	158	145	133	123	113	104	96	



Values shown shaded to the left and below the solid line produce unacceptably high shear loads in panels with ungrouted cells. These values may be used provided some or all of the the cells near the end are grouted as determined and designed by a professional engineer.

These tables were prepared using ACI 318-05 strength formulas and load factors.

NOTE: Please consult local design professional to determine appropriate application.