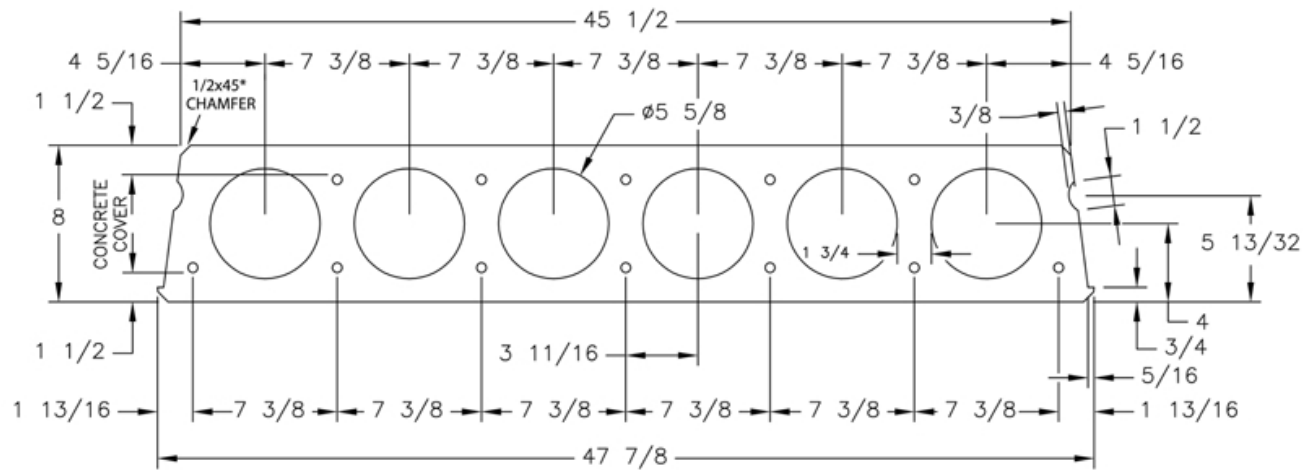


8" Slab and Reinforcing Geometry



848 Load Table of Allowable Superimposed Service Loads psf

Strand Ø	Strands Row 1	Strands Row 2	Area of Steel in²	øVc kip	øMn kip-ft	Span (feet)																		
						19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
1/2"	5	0	0.76	20.8	87	266	239	213	187	170	153	135	123	111	99	91	82	73	67	60	54	49	44	39
0.6"	4	0	0.87	20.7	97	299	270	241	212	193	174	155	142	128	115	105	95	86	79	71	64	59	53	48
1/2"	6	0	0.92	21.3	103	320	289	258	228	207	187	167	153	138	124	114	104	94	86	78	71	65	59	53
1/2"	7	0	1.07	21.9	118	337	314	290	267	243	220	197	181	164	148	137	125	113	104	96	87	80	73	67
0.6"	5	0	1.09	21.3	118	327	307	287	267	244	221	197	181	165	149	137	125	113	105	96	87	80	74	67
0.6"	6	0	1.30	21.9	138	338	320	302	285	260	236	211	192	173	153	141	128	116	107	99	90	84	78	72
0.6"	7	0	1.52	22.6	156	349	331	312	294	267	239	212	193	173	154	141	129	116	108	99	91	85	79	73

Note:

Load tables provided for reference only. The user is responsible for ultimate design approvals.

Service load includes 10 psf dead load

Highlighted values (bottom left) indicate web shear or flexural shear controls

Highlighted values (upper right) indicate long-time camber less than zero with no superimposed service loads.

Slabs designed according to ACI-318M-14

UltraSpan reserves the right to update these load tables at any time

Slab Section and Material Properties

Net Area	221	in ²	Strength of Concrete	7250	psi
Moment of Inertia	1680	in ⁴	Strength at Transfer	4060	psi
Centroid from Slab Bottom	3.94	in	Unit Weight of Concrete	150	pcf
Section Modulus, Top	414	in ³	Ultimate Steel Strength	270	ksi
Section Modulus, Bottom	427	in ³	Strand Jacking Stress	202	ksi
Web Width	13	in	Strand Type	Low Relaxation	
V/S Ratio	2.02	in	Grout Joint Requirements	1162	sf/cy
Self Weight	58	psf	Self weights are based on ungrouted section.		