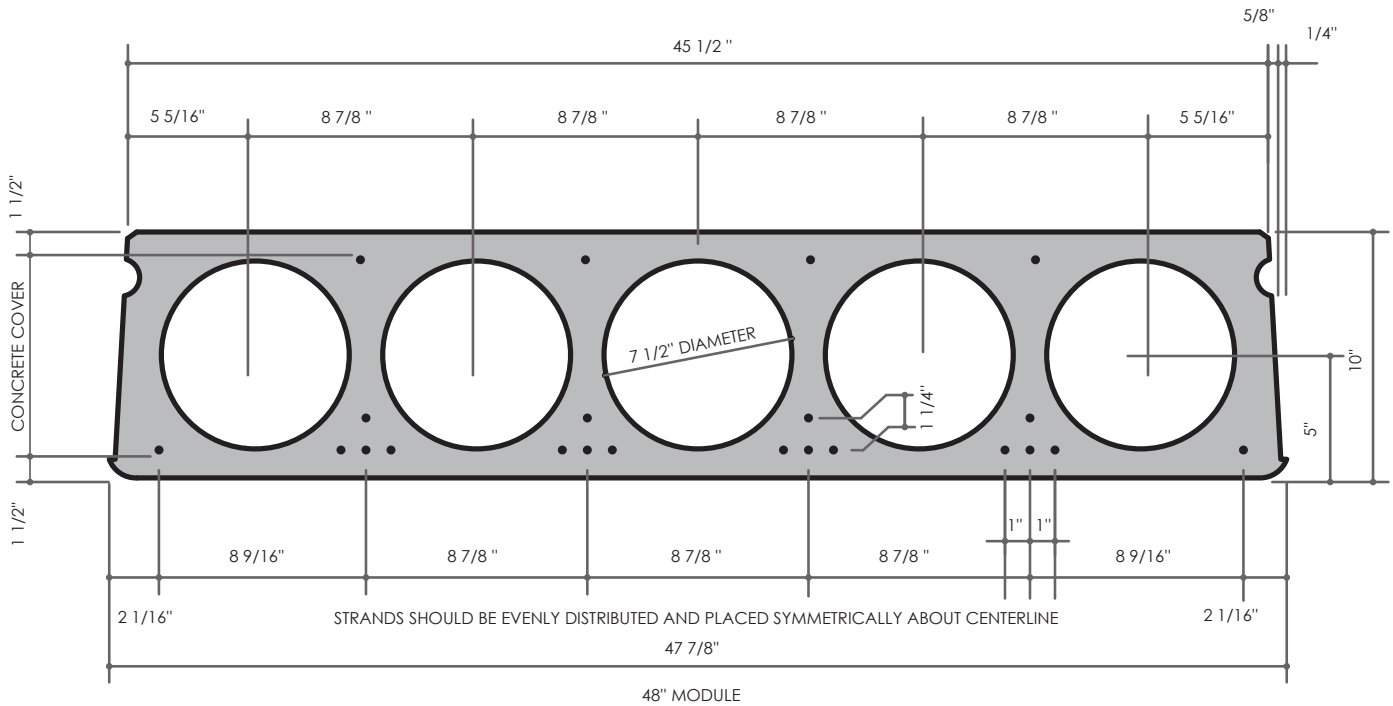


10" Slab and Reinforcing Geometry

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.



10" Load Table

Load Table of Allowable Superimposed Service Loads in Pounds / sq. ft.

Strand	Area of Steel (In ²)	Mn (kip-ft.)	Span in Feet																																																			
			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																					
4 - 7/16"	0.460	74.2	126	110	96	83	73	63	55	47	41	35																																										
6 - 3/8"	0.510	82.7	146	128	112	98	86	76	67	58	51	44	38	33																																								
4 - 1/2"	0.612	97.7	181	160	141	125	111	98	87	78	69	61	54	47	41	36	31																																					
8 - 3/8"	0.680	108.8	292	260	233	209	188	169	153	138	125	114	103	93	85	77	70	63	57	51	46	41																																
6 - 7/16"	0.690	109.3	293	262	234	210	189	170	154	139	126	114	104	94	85	77	70	63	57	52	47	42	37																															
10 - 3/8"	0.850	134.1	350	332	298	269	243	220	200	182	166	151	138	126	116	106	97	89	81	74	68	62	57	52	47	43																												
6 - 1/2"	0.918	142.9	350	334	319	290	262	238	216	197	180	164	150	138	126	116	106	98	90	82	76	69	64	58	53	48	44	40																										
8 - 7/16"	0.920	143	350	334	319	290	262	238	216	197	180	164	151	138	126	116	107	98	90	82	76	69	64	58	53	49	44	40	36																									
4+4 - 7/16"+1/2"	1.072	164.6	350	334	319	305	292	281	256	234	214	197	181	166	153	141	130	120	111	102	94	87	80	74	69	63	58	53	49	44	40	36																						
10 - 7/16"	1.150	175.3	350	334	319	305	292	281	270	252	231	212	195	180	166	153	141	131	121	112	104	96	89	82	76	70	65	60	55	51	47	43	40																					
8 - 1/2"	1.224	185.6	350	334	319	305	292	281	270	260	248	228	210	193	178	165	153	141	131	121	113	104	97	90	83	77	72	66	62	57	53	49	45																					
5+5 - 7/16"+1/2"	1.340	201	350	334	319	305	292	281	270	260	251	242	231	213	197	183	169	157	146	135	126	117	109	101	94	88	82	76	71	66	61	57	52																					
10 - 1/2"	1.530	185.6	350	334	319	305	292	281	270	260	248	228	210	193	178	165	153	141	131	121	113	104	97	90	83	77	72	66	62	57	53	49	45																					

(Includes 10PSF dead load)

Values below lower heavy line indicate web shear controls.

Values above upper heavy line indicate long-time camber less than zero with no superimposed service loads.

Slab Selection and Material Properties

Net Area	247.99 in ²
Moment of Inertia	3262.4 in ⁴
Centroid From Slab Bottom	5.00 in
Section Modulus, Top	652.46 in ³
Section Modulus, Bottom	652.46 in ³
Web Width	9.25 in
V/s Ratio	2.28 in
Self Weight	68.9 psf

Strength of Concrete	6000 psi
Strength at Release	4000 psi
Unit Weight of Concrete	150 pcf
Ultimate Steel Strength	270 ksi
Strand Jacking Stress	202.5 ksi
Strand Type	Low Relaxation
Grout Joint Requirements	1399 ft ² /yd ³

Self weights are based on grouted section.