



PRESTRESSED CONCRETE SLAB

Safe Load Table

12" x 24" SECTION

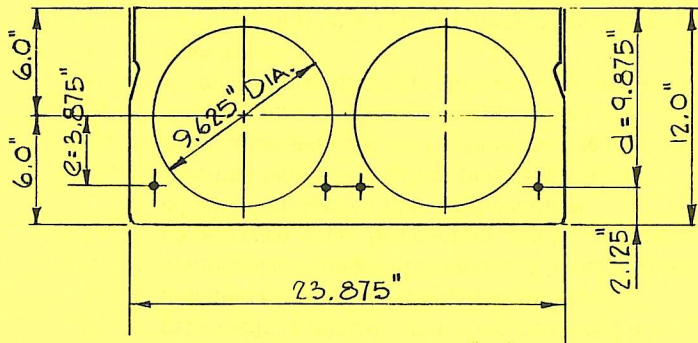
See instructions on back side of sheet for using this table.

UNIFORMLY DISTRIBUTED SUPERIMPOSED* LOAD IN PSF

Standard Designation	Strands No. & Size	Strand Area Sq. In.	M in Ft.-Kips per Unit	ϕM _n in Ft.-Kips per Unit	Span Length (ℓ) in Ft.																				
					25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1224B-D58	4-1/2	0.576	60.79	96.22	220	209	199	190	181	173	166	156	145	135	124	114	105	95	87	79	72	65	59	53	47
1224B-D50	2-1/2 & 2-7/16	0.504	55.10	85.25	213	203	193	184	175	162	148	135	124	113	103	94	86	78	71	65	58	52	46		
1224B-D43	4-7/16	0.432	49.41	73.99	212	197	178	162	147	133	121	110	99	90	82	74	67	60	54	48					
1224B-D38	2-7/16 & 2-3/8	0.376	44.99	65.02	184	166	149	135	121	110	99	89	80	72	64	58	51	45							
1224B-D32	4-3/8	0.320	40.57	55.79	150	134	120	107	96	85	76	68	60	53	47	41									
1224B-D29	2-1/2	0.288	38.04	50.41	129	115	102	91	81	71	63	55	48	42											
1224B-D28	2-3/8 & 2-5/16	0.276	37.09	48.39	122	108	96	85	75	66	58	51	44												

*TABULATED LOADS ARE BASED ON U = 1.4D + 1.7L AND WITH ALL LOAD SUPERIMPOSED ON THE STRUCTURAL SECTION CONSIDERED AS LIVE LOAD. (ALSO SEE NOTE 6)

PHYSICAL PROPERTIES OF STRUCTURAL SECTION AND SPECIFICATIONS



$A = 141.0 \text{ in.}^2$ $f'_c = 5000 \text{ psi}$ $f_{pu} = 250 \text{ ksi}$
 $b_w = 4.625 \text{ in.}$ $f'_{ci} = 3500 \text{ psi}$ $f_{si} = 175 \text{ ksi}$
 $I_g = 2595.4 \text{ in.}^4$

NOTES:

1. Grouted weight of structural unit is 73 psf or 146 plf based on concrete unit weight of 150 pcf.
2. Design is based on ACI Standard, "Building Code Requirements for Reinforced Concrete (ACI 318-83)."
3. For spans in shaded area consult your local manufacturer.
4. No shear reinforcement is required for the tabulated loads.
5. Tabulated loads to the left of solid stepped line are controlled by shear strength of the concrete. Shear reinforcement may be added to increase the safe loads.
6. Tabulated loads to the right of dashed stepped line are controlled by permissible flexural tension at service loads.
7. For longer spans and conditions not covered in the load table, consult your local manufacturer.

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