Texicore PRESTRESSED CONCRETE SLAI

Composite Design Safe Load Table

PRESIRESSED CONCRETE SLAB

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

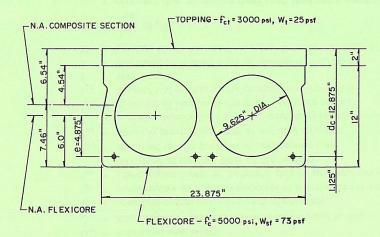
12" x 24" SECTION PLUS 2" STRUCTURAL TOPPING

UNIFORMLY DISTRIBUTED SUPERIMPOSED* LOAD IN PSF

Standard Designation	Strands No. & Size	Strand Area Sq. In.	M in FtKips per Unit	φM _Π in FtKips per Unit	Span Length (2) in Ft.																				
					25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
T1224D-D58	4-1/2	0.576	84.44	122.00	285	271	258	246	234	224	214	199	183	167	152	137	123	110	99	88	78	68	59	51	43
T1224D-D50	2-1/2 & 2-7/16	0.504	76.28	108.56	276	262	249	238	223	203	185	168	153	140	126	112	99	88	77	67	58	50	42		
T1224D-D43	4-7/16	0.432	68.13	94.55	275	248	224	203	183	166	150	136	123	111	99	87	76	65	56	47		74 (18			
T1224D-D40	2-1/2 & 1-7/16	0.396	64.05	87.37	248	223	201	181	163	147	133	120	108	97	86	74	64	54	45		diens.				
T1224D-D38	2-7/16 & 2-3/8	0.376	61.78	83.33	233	209	188	169	152	137	123	110	99	89	78	67	57	48							
T1224D-D36	1-1/2 & 2-7/16	0.360	59.97	80.07	220	198	177	159	143	128	115	103	92	82	72	62	52	43			Ea CHEST				
T1224D-D32	4-3/8	0.320	55.44	71.81	189	169	151	134	120	107	95	84	74	65	57	48	(a)		eraines.	Supa	1 2 3 1				

^{*}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



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A = 141.0 in.²
$$l_g$$
 = 2595.4 in.⁴ f'_c = 5000 psi f_{pu} = 250 ksi b_w = 4.625 in. l_{gc} = 4044.2 in.⁴ f'_{ci} = 3500 psi f_{si} = 175 ksi

NOTES:

- Grouted weight of structural unit is 98 psf or 196 plf based on concrete unit weight of 150 pcf.
- Design is based on ACI Standard, "Building Code Requirements for Reinforced Concrete (ACI 318-77)."
- 3. For spans in shaded area consult your local manufacturer.
- 4. No shear reinforcement is required for the tabulated loads.
- 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.
- Tabulated loads to the right of dashed stepped line are controlled by permissible flexural tension at service loads.
- For longer spans and conditions not covered in the load table, consult your local manufacturer.