# Texicore PRESTRESSED CONCRETE SLAB

## Composite Design Safe Load Table

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

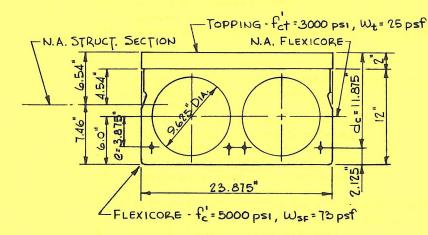
12" x 24" SECTION PLUS 2" STRUCTURAL TOPPING

#### UNIFORMLY DISTRIBUTED SUPERIMPOSED\* LOAD IN PSF

Standard Designation	Strands No. & Size	Strand Area Sq. In.	M in FtKips per Unit	φM <sub>n</sub> in FtKips per Unit	Span Length (()) in Ft.																				
					22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
T1224B-D58	4-1/2	0.576	76.23	111.24	303	286	271	256	243	231	220	210	200	189	173	157	140	125	112	99	88	77	67	58	49
T1224B-D50	2-1/2 & 2-7/16	0.504	69.10	99.14	293	277	262	248	235	224	213	196	178	162	146	130	116	102	90	78	68	58	49	41	
T1224B-D43	4-7/16	0.432	61.96	86.51	292	276	261	245	220	198	179	161	145	131	118	104	91	79	68	58	48	40			
T1224B-D38	2-7/16 & 2-3/8	0.376	56.42	76.32	283	258	231	206	185	165	148	132	118	106	94	84	72	61	51	41	13/1	=" -"			
T1224B-D32	4-3/8	0.320	50.87	65.83	239	212	188	167	148	131	117	103	91	80	70	61	53	43							

<sup>\*</sup>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



### MOLIN CONCRETE PRODUCTS CO.

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A = 
$$141.0 \text{ in.}^2$$
  $I_g$  =  $2595.4 \text{ in.}^4$   $f'_c$  =  $5000 \text{ psi}$   $f_{pu}$  =  $250 \text{ ksi}$   $f_{w}$  =  $4.625 \text{ in.}$   $I_{gc}$  =  $4044.2 \text{ in.}^4$   $f'_{ci}$  =  $3500 \text{ psi}$   $f_{si}$  =  $175 \text{ ksi}$ 

#### NOTES:

- Grouted weight of structural unit is 98 psf or 196 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.
- 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.