250 k STRAND



Safe Load Table

PRESTRESSED CONCRETE SLAB

10" x 24" SECTION

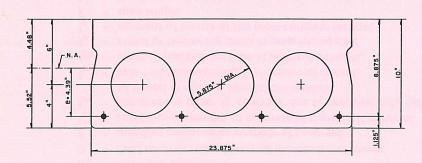
See instructions on back side of sheet for using this table.

UNIFORMLY DISTRIBUTED SUPERIMPOSED* LOAD IN PSF

Standard Designation	Strands No. & Size	Strand Area Sq. In.	M in FtKips per Unit	φM _n in FtKips per Unit	Span Length (½) in Ft.																		
					22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1024F-D58	4-1/2 (see Note 7)	0.576	52.37	85.41	304	288	270	247	227	206	186	168	151	136	123	111	100	89	80	72	64	56	49
1024F-D50	2-1/2 & 2-7/16	0.504	47.18	75.81	296	270	242	218	196	177	159	143	128	115	103	92	82	73	64	56	49	43	
1024F-D43	4-7/16	0.432	41.98	65.91	253	226	202	181	162	145	130	117	105	93	83	73	64	56	48	41		知识的	
1024F-D38	2-7/16 & 2-3/8	0.376	37.95	58.00	214	190	169	151	134	120	107	95	84	74	66	58	50	42		NOTE !			
1024F-D32	4-3/8	0.320	33.91	49.90	175	154	136	120	106	94	82	72	63	55	47	40	e Heigh						
1024F-D29	2-1/2	0.288	31.60	45.12	152	133	117	102	90	78	68	59	50	43	3102		144 118	s log	r un-				
1024F D28	2-3/8 & 2-5/16	0.276	30.74	43.31	143	125	109	96	83	72	62	54	46		EFET	e con							
1024F-D23	4-5/16	0.232	27.56	36.64	411	95	82	70	60	51	42			ene ede Grafa	Medels ar 1825	5.60							

^{*}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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THE FLEXICORE CO., INC., DAYTON, OHIO

A =
$$157.4 \text{ in.}^2$$
 f'_c = 5000 psi f_{pu} = 250 ksi b_w = 6.25 in. f'_{ci} = 3500 psi f_{si} = 175 ksi I_a = 1690.8 in.^4

NOTES:

- Grouted weight of structural unit is 82 psf or 164 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.
- Slabs with four ½ in. strands and span lengths of 22 ft. thru 30 ft. require 2-#4 x 4'-0" long top re-bars (f_v = 40 ksi) at each end.
- For longer spans and conditions not covered in the load table, consult your local manufacturer.