



# Safe Load Table

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

**10" x 24" SECTION**

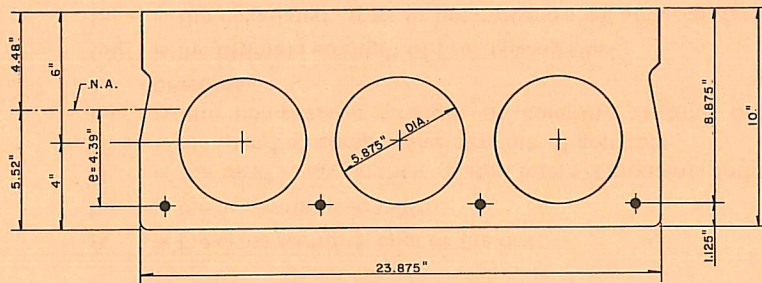
**UNIFORMLY DISTRIBUTED SUPERIMPOSED\* LOAD IN LBS. PER SQ. FT.**

Standard Designation	Combination of 7-Wire Strand	Strand Area Sq. In.	Muc in Ft.-Kips per Unit	SIMPLE SPAN IN FEET—CENTER TO CENTER OF END BEARINGS ( <i>l</i> )																	Top Tension Reinforcement Required at each end of Slab $f_y = 40$ ksi				
				22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Span	Re-bar No. & Size	Minimum Length of Re-bar
1024F-C58	4-1/2	0.576	85.41	304	288	270	247	227	206	186	168	151	136	123	111	100	89	80	72	64	56	49	22'-30' Above 30'	2-#4 Not Required	4'-0"
1024F-C50	2-1/2 & 2-7/16	0.504	75.81	296	270	242	218	196	177	159	143	128	115	103	92	82	73	64	56	49	43				
1024F-C43	4-7/16	0.432	65.91	253	226	202	181	162	145	130	117	105	93	83	73	64	56	48	41						
1024F-C38	2-7/16 & 2-3/8	0.376	58.00	214	190	169	151	134	120	107	95	84	74	66	58	50	42								
1024F-C32	4-3/8	0.320	49.90	175	154	136	120	106	94	82	72	63	55	47	40										
1024F-C29	2-1/2	0.288	45.12	152	133	117	102	90	78	68	59	50	43												
<del>1024F-C28</del>	<del>2-3/8 &amp; 2-5/16</del>	<del>0.276</del>	<del>43.31</del>	<del>143</del>	<del>125</del>	<del>109</del>	<del>96</del>	<del>83</del>	<del>72</del>	<del>62</del>	<del>54</del>	<del>46</del>													
<del>1024F-C23</del>	<del>4-5/16</del>	<del>0.232</del>	<del>36.64</del>	<del>111</del>	<del>95</del>	<del>82</del>	<del>70</del>	<del>60</del>	<del>51</del>	<del>42</del>															

←  $l/h = 40$

\* TABULATED LOADS ARE BASED ON  $U = 1.4D + 1.7L$  AND WITH ALL LOAD SUPERIMPOSED ON THE STRUCTURAL SECTION CONSIDERED AS LIVE LOAD.\*\*

## PHYSICAL PROPERTIES OF STRUCTURAL SECTION AND SPECIFICATIONS



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

Grouted weight of structural unit is 82 lbs. per sq. ft. or 164 lbs. per lin. ft.  
 Design is based on ACI 318-71 building code requirements for reinforced concrete.  
 Recommended maximum  $l/h$  ratio is 40 for floor and 50 for roof as per PCI Design Handbook (1971).

Note — For longer spans, heavier loads or special conditions consult your local manufacturer.