



Safe Load Table

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

12" x 24" SECTION

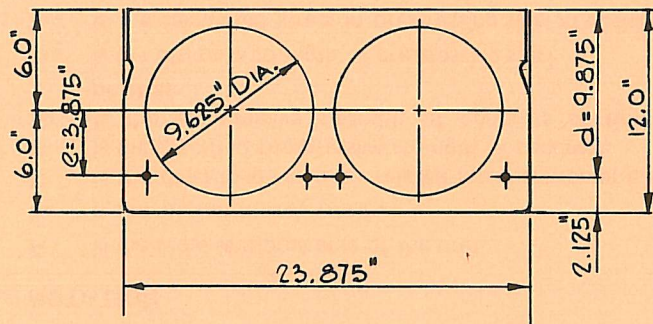
UNIFORMLY DISTRIBUTED SUPERIMPOSED* LOAD IN LBS. PER SQ. FT.

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 (l)																				
				25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1224B-C58	4-1/2	0.576	96.22	220	209	199	190	181	173	166	156	145	135	124	114	105	95	87	79	72	65	59	53	47
1224B-C50	2-1/2 & 2-7/16	0.504	85.25	213	203	193	184	175	162	148	135	124	113	103	94	86	78	71	65	58	52	46	41	
1224B-C43	4-7/16	0.432	73.99	212	197	178	162	147	133	121	110	99	90	82	74	67	60	54	48	43				
1224B-C38	2-7/16 & 2-3/8	0.376	65.02	184	166	149	135	121	110	99	89	80	72	64	58	51	45	40						
1224B-C32	4-3/8	0.320	55.79	150	134	120	107	96	85	76	68	60	53	47	41									
1224B-C29	2-1/2	0.288	50.41	129	115	102	91	81	71	63	55	48	42											
1224B-C28	2-3/8 & 2-5/16	0.276	48.39	122	108	96	85	75	66	58	51	44												

← 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



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

Grouted weight of structural unit is 73 lbs. per sq. ft. or 146 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.