Form No. 1224D-C December 15, 1975

flexicore®

Safe Load Table

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

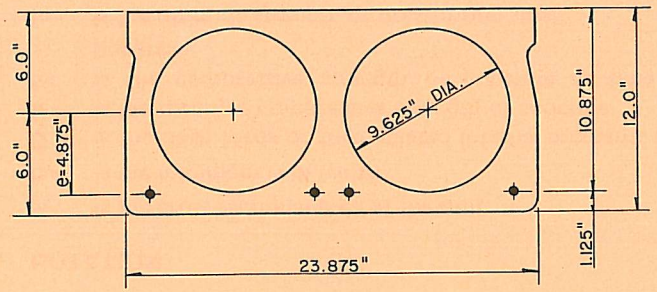
12" x 24" SECTION

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	46	47	48
1224D-C58	4-1/2	0.576	106.88	249	237	226	215	206	197	189	179	167	156	145	134	123	114	104	95	87	80	73	66	60	54	49	44
1224D-C50	2-1/2 & 2-7/16	0.504	94.60	241	229	219	209	199	187	171	157	144	132	121	111	102	94	86	79	72	65	59	53	47	42		
1224D-C43	4-7/16	0.432	82.03	240	225	204	186	169	154	140	128	117	106	97	88	81	73	66	60	54	49	44					
1224D-C40	2-1/2 & 1-7/16	0.396	75.63	224	203	184	167	151	137	125	113	103	93	85	77	70	63	57	51	45	40						
1224D-C38	2-7/16 & 2-3/8	0.376	71.99	211	190	172	156	141	128	116	105	95	86	78	70	63	57	51	45	40							
1224D-C36	2-7/16 & 1-1/2	0.360	69.05	200	180	162	147	133	120	109	98	89	80	72	65	58	52	46	41								
1224D-C32	4-3/8	0.320	61.67	172	154	139	125	112	101	91	81	73	65	58	51	46	40										
1224D-C30	2-7/16 & 1-3/8	0.296	57.20	155	139	124	111	100	89	80	71	63	56	49	43												
1224D-C29	2-1/2	0.288	55.71	149	133	119	107	95	85	76	68	60	53	47	41												
1224D-C28	2-3/8 & 2-5/16	0.276	53.46	141	126	112	100	89	79	70	62	55	48	42						← *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 in.^{2} f_{si} = 175 ksi I_g = 2595.4 in.^{4}

f'_{ci} = 3500 psi f_{pu} = 250 ksi

f'_c = 5000 psi b_w = 4.625 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.