Form No. T824C-C March 14, 1975

Composite Design Safe Load Table

flexicore®

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

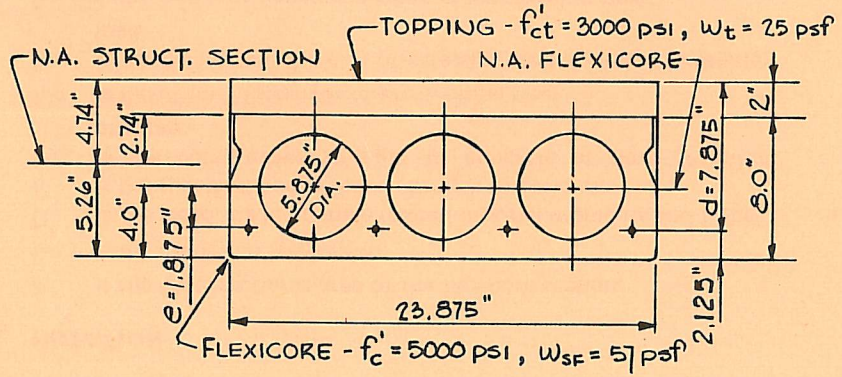
8" x 24" SECTION PLUS 2" STRUCTURAL TOPPING

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*)																		
				15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
T824C-C58	4-1/2	0.576	67.91	433	402	374	350	328	308	284	255	226	199	174	152	133	116	100	86	73	62	51
T824C-C50	2-1/2 & 2-7/16	0.504	61.53	432	401	373	349	323	288	255	222	194	169	146	127	109	93	79	67	55	45	
T824C-C43	4-7/16	0.432	54.27	430	399	371	326	286	250	216	186	161	138	119	101	85	71	59	47			
T824C-C38	2-7/16 & 2-3/8	0.376	48.27	419	376	325	283	247	216	185	159	135	115	97	81	67	54	43				
T824C-C32	4-3/8	0.320	41.97	371	318	274	237	206	179	155	131	110	92	75	61	48						
T824C-C29	2-1/2	0.288	38.22		284	244	210	182	157	136	115	95	78	63	50							
~~T824C-C28~~	2-3/8 & 2-5/16	~~0.276~~	~~36.79~~	~~317~~	~~271~~	~~232~~	~~200~~	~~172~~	~~149~~	~~129~~	~~109~~	~~90~~	~~73~~	~~58~~	~~45~~						*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	= 109.7 in.^{2}	f_{si}	= 175 ksi	I_g	= 843.2 in.^{4}
f'_{ci}	= 3500 psi	f_{pu}	= 250 ksi	I_{gc}	= 1547.4 in.^{4}
f'_c	= 5000 psi	b_w	= 6.25 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.