Form No. TU8 December 31, 1971

Composite Design Safe Load Table

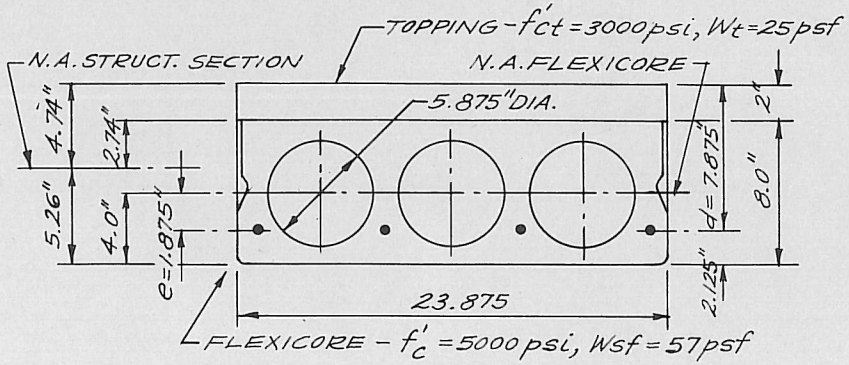
hi-stress flexicore®

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.	M_u in Ft.-Kips per Unit	SIMPLE SPAN IN FEET—CENTER TO CENTER OF END BEARINGS																													
				12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
T824U-A58	4-1/2	0.575	68.69					449	419	393	370	336	298	265	233	205	180	157	138	120	104	90	77	65	54	44	35	27	20				
T824U-A51	2-1/2 & 2-7/16	0.505	61.73					434	406	380	334	295	261	229	199	174	151	131	113	97	83	70	58	47	38	29	21						
T824U-A44	4-7/16	0.436	54.34			501	464	431	374	327	286	252	222	192	166	143	123	105	89	74	62	50	40	30	21								
T824U-A38	2-7/16 & 2-3/8	0.378	48.29			486	437	376	325	283	247	216	190	163	139	119	100	84	70	57	45	35	25										
T824U-A32	4-3/8	0.320	41.96			436	371	318	274	237	205	179	156	135	113	95	78	64	51	39	29												
T824U-A29	2-1/2	0.288	38.21	537	464	391	332	283	243	209	181	157	136	118	98	81	66	52	40	29													
T824U-A28	2-3/8 & 2-5/16	0.276	36.78	533	444	374	317	270	231	199	172	148	128	111	93	76	61	48	36	25													
T824U-A23	4-5/16	0.231	31.43	445	370	309	261	221	188	160	137	117	100	85	72	57	43	31	21														
T824U-A22	2-7/16	0.218	29.44	413	342	285	240	203	172	146	124	105	89	75	63	50	37	26															

PHYSICAL PROPERTIES OF STRUCTURAL SECTION AND SPECIFICATIONS



DEAD LOAD, W_D = 82 P.S.F. GROUTED WEIGHT OF STRUCTURAL UNIT.

LOADS ABOVE HEAVY STEPPED LINE GOVERNED BY SHEAR.

TABULATED LOADS ARE BASED ON AC1318-71 WHERE $M_u = 1.4\ M_D + 1.7 M_L$ AND WITH ALL LOADS SUPERIMPOSED ON THE STRUCTURAL SECTION CONSIDERED AS LIVE LOAD.

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