Form No. R8 December 31, 1971

Composite Design Safe Load Table

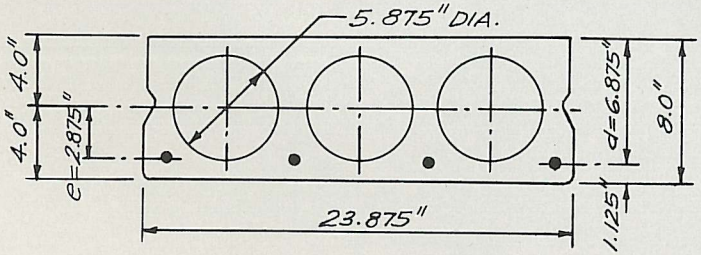
hi-stress flexicore®

8" x 24" SECTION

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
824R-A58	4-1/2	0.575	61.42							332	312	294	274	250	226	203	184	166	151	137	124	113	103	94	85	78	71	64	58	52	47	42	37
824R-A51	2-1/2 & 2-7/16	0.505	55.03							321	302	276	246	220	197	177	160	144	130	118	107	96	87	79	71	65	58	52	47	41	36	32	27
824R-A44	4-7/16	0.436	48.30					366	341	303	267	237	210	187	167	150	134	121	108	98	88	79	71	64	57	51	45	40	35	30	26	22	
824R-A38	2-7/16 & 2-3/8	0.378	42.82					346	301	264	232	204	181	161	143	127	114	102	91	81	72	65	57	51	45	40	35	30	26	21			
824R-A32	4-3/8	0.320	37.12			398	341	294	255	222	194	171	151	133	118	104	92	82	72	64	56	50	43	38	33	28	24	20					
824R-A29	2-1/2	0.288	33.76			358	306	263	227	198	173	151	133	117	103	90	80	70	62	54	47	41	35	30	26	21							
824R-A28	2-3/8 & 2-5/16	0.275	32.48			343	292	251	217	188	164	144	126	110	97	85	75	66	57	50	43	37	32	27	23	19							
824R-A23	4-5/16	0.231	27.70	405	338	285	242	207	178	154	133	116	100	87	76	66	57	49	42	36	30	25	20	16									
824R-A22	2-7/16	0.218	25.93	376	314	264	224	191	164	141	122	105	91	79	68	58	50	43	36	30	25	20	16										

PHYSICAL PROPERTIES OF STRUCTURAL SECTION AND SPECIFICATIONS



DEAD LOAD, W_D = 57 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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