

SAFE LOAD TABLE

8" x 16" Flexicore[®] SECTION

**MAXIMUM SAFE SUPERIMPOSED* UNIFORMLY DISTRIBUTED WORKING LOADS
IN POUNDS PER SQUARE FOOT OF AREA**

STD. DESIG.	SPANS IN FEET AND INCHES																												BOTTOM STEEL PER 16' UNIT										
	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"	15'-6"	16'-0"	16'-6"	17'-0"	17'-6"	18'-0"	18'-6"	19'-0"	19'-6"	20'-0"	20'-6"	21'-0"	21'-6"	22'-0"	22'-6"	23'-0"	23'-6"	24'-0"	24'-6"	25'-0"	25'-6"	26'-0"	CONTENT	AREA—Sq. In.				
W 123						384	353	324	298	274	254	235	217	202	187	174	161	150	140	130	121	113	105	97	91	85	79	73	68	63	58	54	4- $\frac{5}{8}$ [†]	1.2272					
W 111					374	341	313	287	263	243	224	210	191	176	163	151	140	130	121	112	104	96	89	83	77	71	65	60	56	51	47	43	2- $\frac{5}{8}$ [†] & 2- $\frac{9}{16}$ [†]	1.1106					
W 99				365	333	303	277	253	233	213	196	181	167	154	142	131	121	112	104	96	88	81	75	69	64	59	54	49	45	41	37	33	4- $\frac{9}{16}$ [†]	0.9940					
W 92			370	335	305	278	253	232	213	194	179	164	151	139	128	118	109	100	92	85	78	72	66	60	55	51	46	42	38	34			3- $\frac{5}{8}$ [†]	0.9204					
W 86		381	344	310	281	256	234	213	194	178	164	150	138	127	117	107	98	90	83	76	70	64	58	53	48	44	40	35	32					2- $\frac{5}{8}$ [†] & 1- $\frac{9}{16}$ [†]	0.8621				
W 80	391	351	318	287	260	236	215	196	179	164	150	137	126	115	105	96	88	81	74	67	61	56	51	46	41	37	33							1- $\frac{3}{8}$ [†] & 2- $\frac{9}{16}$ [†]	0.8038				
W 75	406	363	326	294	265	240	217	198	180	164	149	136	124	114	104	95	86	79	72	66	60	54	49	44	39	35	31								3- $\frac{9}{16}$ [†]	0.7455			
W 69	373	334	298	269	242	219	198	180	163	148	135	123	111	101	92	84	76	69	63	57	51	46	41	36	32											2- $\frac{9}{16}$ [†] & 1- $\frac{1}{2}$ [†]	0.6933		
W 64	340	303	271	244	219	198	178	161	146	132	120	109	98	89	81	73	66	59	54	48	43	38	32														1- $\frac{9}{16}$ [†] & 2- $\frac{1}{2}$ [†]	0.6411	
W 59	310	276	247	221	198	178	160	145	131	118	106	96	87	78	71	63	57	51	45	40	35	31																3- $\frac{1}{2}$ [†]	0.5889
W 54	282	251	223	200	178	160	144	130	116	105	94	85	76	68	61	54	48	43	37	33																		2- $\frac{1}{2}$ [†] & 1- $\frac{7}{16}$ [†]	0.5429
W 49	255	226	201	180	160	143	128	115	103	92	82	73	65	58	51	45	40	35	30																			2- $\frac{7}{16}$ [†] & 1- $\frac{1}{2}$ [†]	0.4969
W 45	226	200	177	158	140	125	111	99	88	78	69	61	54	48	42	36	31																					3- $\frac{7}{16}$ [†]	0.4509
W 41	202	179	157	139	123	109	97	86	75	67	59	52	45	39	33	28																						2- $\frac{7}{16}$ [†] & 1- $\frac{3}{8}$ [†]	0.4111
W 37	177	156	136	120	106	93	82	72	63	55	47	41	35	29																								1- $\frac{7}{16}$ [†] & 2- $\frac{3}{8}$ [†]	0.3713
W 33	153	134	117	102	89	78	68	59	51	44	37	31	26																									3- $\frac{3}{8}$ [†]	0.3315

*INCLUDES THE LIVE LOAD PLUS ANY DEAD LOAD THAT IS ADDITIONAL TO THE WEIGHT OF THE BARE GROUTED SLABS IN PLACE.

REMARKS

1. A balanced slab would require 1.39 sq. in. per unit, beyond which steel content, safe loads must not be extrapolated.
2. Safe superimposed $W = \frac{6M}{L^2} - 56.3$ (W in lb. per sq. ft. of area.)
3. The maximum span without stirrups = $\frac{3210}{W_{D+L}}$. With stirrups used it is $\frac{8560}{W_{D+L}}$.
4. Table is based upon dead load and grout of 75 pcf.
5. Stirrups are needed for all loadings above the heavy dash line.
6. At the safe loads shown all deflections are less than $\frac{1}{360}$ of the span.

THE FLEXICORE CO., INC.
Dayton, Ohio

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