

Safe Load Table

10" x 16" Flexicore SECTION

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

STD. DESIGNATION	TENSILE STEEL AREA Sq. In.	SPANS IN FEET AND INCHES																																					
		16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	25'-0"	26'-0"	27'-0"	28'-0"	29'-0"	30'-0"	31'-0"	32'-0"	33'-0"	34'-0"	35'-0"	36'-0"	36'-6"																
T-207	2.074	409	382	358	336	316	297	279	262	247	233	220	207	195	184	174	164	154	145	137	130	122	115	108	102	96	90	85	80	75	70	66	61	57	53	49	46	42	39
T-192	1.921	374	350	327	307	288	270	254	238	224	211	198	186	175	165	155	146	138	130	122	115	108	101	95	89	84	78	73	69	64	60	55	51	47	44	40	37	34	
T-177	1.767	340	317	297	277	260	244	229	214	202	189	177	166	156	147	138	129	121	114	107	100	94	88	82	76	71	66	62	57	53	48	45	41	38	34	31	27	25	
T-163	1.626	306	285	266	248	232	217	203	190	178	167	157	147	137	128	120	112	105	98	92	85	80	74	69	64	59	54	50	46	42	38	35	31	28	25	22			
T-156	1.555	292	272	254	236	220	206	193	180	169	158	148	138	129	120	113	105	98	92	85	79	73	68	63	58	54	49	45	41	37	34	31	27	24					
T-148	1.485	276	256	239	223	208	194	181	169	158	147	138	128	120	112	104	97	90	84	78	72	67	62	57	52	48	44	40	36	32	29	26	23	20					
T-141	1.408	258	240	224	208	194	181	169	157	147	137	127	118	110	103	96	89	82	76	71	65	60	55	50	46	42	38	34	31	27	24	21							
T-136	1.356	247	229	213	199	184	172	160	149	139	129	120	112	104	96	89	83	77	71	65	60	55	50	46	42	38	34	30	27										
T-123	1.227	218	202	187	174	161	149	138	128	120	110	102	95	87	80	74	68	62	57	52	47	43	39	35	31	27	23												
T-111	1.111	192	177	164	152	140	130	120	110	102	94	87	80	73	67	61	55	50	45	41	36	32	28	25	21														
T-104**	1.037	175	161	149	137	126	117	107	99	91	83	76	70	63	57	52	47	42	37	33	29	25	22																
T-99	0.994	165	152	140	128	118	109	100	92	84	77	70	63	58	52	47	42	37	33	29	25	21																	
T-92	0.920	148	136	125	114	105	96	87	80	73	66	60	54	48	43	38	34	29	25	21																			
T-88**	0.884	140	128	117	107	98	90	81	74	67	61	55	49	44	39	34	30	25	21																				
T-86	0.862	134	123	112	103	94	85	77	70	64	57	51	46	40	36	31	27	23																					

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

REMARKS

- Safe superimposed $W = \frac{6M}{L^2} - 80$ (W in lb. per sq. ft. of floor area.)
- The maximum span without stirrups = $\frac{3320}{W_{D+L}}$. With stirrups used it is $\frac{8820}{W_{D+L}}$.
- Table is based on dead load plus grout of 107 pcf.
- Stirrups are needed for all loadings above the heavy stepped dashed line.
- At the safe loads shown all deflections are less than 1/360 of the span.
- The above tabulated loads contemplate a depth, d, to the centroid of the bottom steel of 8.75 in.
- Minimum total wall thickness (b^t) = 3.22 in.
- Load computations are in accordance with **1956 ACI 318 Code**.
- ** Indicates slabs with 2 rods for tensile steel.

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