

SINGLE TEE

TYPE "A" LOAD TABLE

10LST 48

Table of safe superimposed live load (psf)

Lightweight Concrete

No Topping

10'-0" x 48" Single Tee

Strand Pattern	Span, ft																							
	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	
128-S	46*	41*	37*	33*	29*																			
148-S	54*	49*	44*	40*	36*	32*																		
128-D1	68*	62*	57*	52*	47*	43*	39*	35*	31*	28*														
148-D1	86*	79*	73*	67*	62*	57*	52*	48*	44*	40*	36*	33*	30*											
168-D1	101*	94*	87*	81*	75*	69*	64*	59*	54*	50*	46*	42*	39*	35*	32*									
188-D1		109*	101*	94*	87*	81*	76*	70*	65*	60*	56*	52*	48*	44*	41*	37	33							
208-D1				107*	100*	93*	87*	81*	76*	71*	66*	61*	57	52	48	44	40	37	33					
228-D1								92*	86*	80*	75	69	64	59	55	51	47	43	39	36	33			
248-D1												72	67	62	57	53	49	45	42	38	35	32		

Dead Load	f_t	454	477	501	525	550	575	601	627	654	682	710	739	768	798	828	859	891	923	955	989	1022	1057	1092
	f_b	-1248	-1312	-1376	-1443	-1511	-1580	-1651	-1724	-1798	-1874	-1951	-2030	-2110	-2192	-2276	-2361	-2447	-2536	-2625	-2717	-2810	-2904	-3000
	a	1.415	1.562	1.720	1.890	2.072	2.267	2.475	2.697	2.934	3.197	3.455	3.740	4.042	4.362	4.700	5.058	5.436	5.835	6.256	6.698	7.164	7.654	8.168
100 plf Live Load	f_t	72	76	80	84	88	92	96	100	104	109	113	118	122	127	132	137	142	147	153	158	163	169	174
	f_b	-199	-210	-220	-231	-241	-253	-264	-276	-287	-300	-312	-325	-337	-351	-364	-377	-391	-405	-420	-434	-449	-464	-480
	a	0.190	0.209	0.230	0.253	0.278	0.304	0.332	0.361	0.393	0.427	0.463	0.501	0.541	0.584	0.630	0.677	0.728	0.782	0.838	0.897	0.960	1.025	1.094

*Capacity governed by ultimate strength

Values below heavy line require release strengths higher than 3500 psi

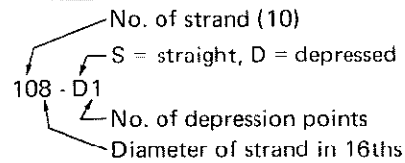
$f'_c = 5000$ psi

$f_{pu} = 270,000$ psi

Notation

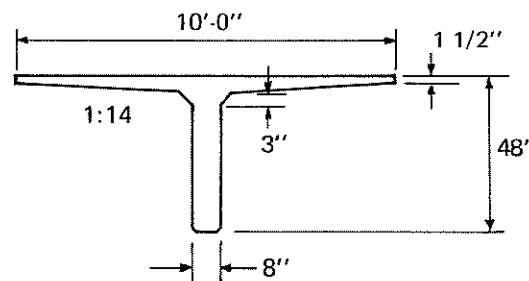
- f_t = top fiber stress, psi (after assumed 25% loss)
- f_b = bottom fiber stress, psi (after assumed 25% loss)
- a = center deflection, in.
- $0.001 l^2 \alpha$ = initial center camber, in. (after assumed 10% loss)
- l = span (ft)
- M_u = ult. moment capacity, in.-kips

Strand Pattern Designation



Section Properties

- A = 782 in.²
- I = 168,968 in.⁴
- y_b = 35.19 in.
- y_t = 12.81 in.
- Z_b = 4802 in.³
- Z_t = 13,190 in.³
- wt = 625 plf
- 62 psf



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