

# SINGLE TEE

## TYPE "A" LOAD TABLE

**8LST 36**

Table of safe superimposed live load (psf)

Lightweight Concrete

No Topping

8'-0" x 36" Single Tee

Strand Pattern	Span, ft																							
	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	
68-S	35*	30*	25*																					
88-S	54*	48*	42*	37*	32*	28*																		
108-S	75*	68*	61*	55*	49*	44*	39*	34*	30*	26*														
88-D1	76*	68*	62*	55*	49*	44*	39*	35*	31*	27*														
108-D1	105*	95*	87*	79*	72*	65*	59*	54*	49*	44*	40*	36*	32*	28*										
128-D1			108*	99*	91*	83*	76*	70*	64*	58*	53*	49*	44*	40*	36*	33*	29*							
148-D1					109*	101*	93*	85*	79*	72*	67*	61*	56*	52*	47*	43	39	35	31					
168-D1									93*	86*	80*	74*	68	62	57	52	47	43	39					
188-D1															66	61	56	51	47	42	39	35	31	
Dead Load	$f_t$	380	405	431	457	484	513	542	571	602	633	665	698	732	766	801	837	874	912	950	989	1029	1070	1112
	$f_b$	-990	-1055	-1122	-1191	-1262	-1335	-1411	-1488	-1567	-1649	-1732	-1818	-1905	-1995	-2087	-2181	-2277	-2374	-2474	-2577	-2681	-2787	-2895
100 plf Live Load	$f_t$	83	89	94	100	106	112	119	125	132	139	146	153	160	168	176	184	192	200	208	217	226	235	244
	$f_b$	-217	-231	-246	-261	-277	-293	-310	-326	-344	-362	-380	-399	-418	-438	-458	-479	-500	-521	-543	-566	-588	-612	-636
	$a$	0.912	1.036	1.171	1.320	1.482	1.659	1.851	2.059	2.285	2.528	2.791	3.073	3.376	3.702	4.050	4.422	4.819	5.243	5.693	6.173	6.681	7.221	7.793
		0.168	0.190	0.215	0.243	0.272	0.305	0.340	0.378	0.420	0.465	0.513	0.565	0.621	0.680	0.744	0.813	0.886	0.964	1.046	1.135	1.228	1.327	1.432

\*Capacity governed by ultimate strength

Values below heavy line require release strengths higher than 3500 psi

$f'_c = 5000$  psi

$f_{DU} = 270,000$  psi

**Notation**

$f_t$  = top fiber stress, psi (after assumed 25% loss)

$f_b$  = bottom fiber stress, psi (after assumed 25% loss)

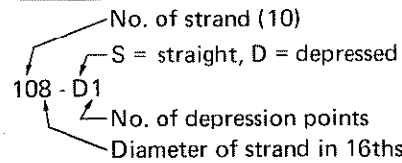
$a$  = center deflection, in.

$0.001 l^2 \alpha$  = initial center camber, in. (after assumed 10% loss)

$l$  = span (ft)

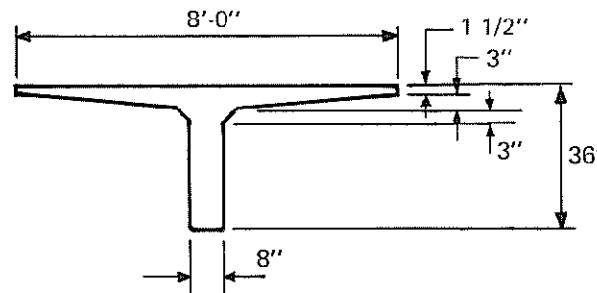
$M_u$  = ult. moment capacity, in.-kips

**Strand Pattern Designation**



**Section Properties**

- A = 570 in.<sup>2</sup>
- I = 68,917 in.<sup>4</sup>
- $Y_b$  = 26.01 in.
- $Y_t$  = 9.99 in.
- $Z_b$  = 2650 in.<sup>3</sup>
- $Z_t$  = 6899 in.<sup>3</sup>
- wt = 455 plf
- 57 psf



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**No Topping**  
**8'-0" x 36" Single Tee**

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