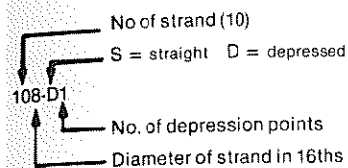


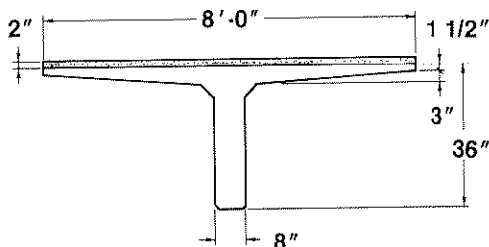
SINGLE TEE

8'-0" x 36"
Lightweight Concrete

Strand Pattern Designation



Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.



Section Properties

	Untopped	Topped
A	= 570 in. ²	—
I	= 68,917 in. ⁴	88,260 in. ⁴
Y _b	= 26.01 in.	29.09 in.
Y _t	= 9.99 in.	8.91 in.
Z _b	= 2650 in. ³	3034 in. ³
Z _t	= 6899 in. ³	9906 in. ³
wt	= 455 plf	655 plf
	57 psf	82 psf
V/S	= 2.16 in.	

Key

- 132 — Safe superimposed service load, psf
- 2.8 — Estimated camber at erection, in.
- 3.3 — Estimated long-time camber, in.

$f'_c = 5000 \text{ psi}$
 $f_{pu} = 270,000 \text{ psi}$

8LST36

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	e _s e _c	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	108	110				
128-D1	13.68	132	121	111	102	93	86	79	72	66	61	56	51	47	43	39	34													
	22.76	2.8	3.0	3.1	3.1	3.2	3.2	3.2	3.1	3.1	3.0	2.9	2.8	2.7	2.5	2.3	2.0													
148-D1	11.15	143	131	121	112	103	95	88	81	75	69	64	58	53	48	44	39	35												
	22.51	3.1	3.3	3.4	3.5	3.6	3.7	3.8	3.8	3.8	3.8	3.7	3.6	3.5	3.3	3.1	2.9	2.6												
168-D1	9.26									96	88	81	75	68	63	58	53	48	44	40	36									
	22.26									4.1	4.2	4.3	4.3	4.3	4.3	4.2	4.0	3.7	3.5	3.2										
188-D1	7.79																67	62	57	52	47	43	39	36						
	22.01																4.7	4.7	4.7	4.6	4.5	4.3	4.1	3.7						
208-D1	6.61																					51	46	43	39	35				
	21.76																					5.0	4.9	4.7	4.5	4.2				
228-D1	5.65																										41	38		
	21.51																					3.1	2.6	2.0	1.3	0.5		5.0	4.8	1.7

8LST36 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e _s e _c	Span, ft.																									
		50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86							
108-D1	17.61	179	161	145	130	117	105	94	84	75	67	60	53	47													
	23.01	2.0	2.1	2.2	2.3	2.3	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5													
128-D1	13.68		199	180	163	147	133	121	109	99	89	81	73	65	59	52											
	22.76		2.2	2.3	2.5	2.6	2.7	2.8	3.0	3.1	3.1	3.2	3.2	3.2	3.1	3.1											
148-D1	11.15									133	121	110	100	91	83	75	66	58	51								
	22.51									3.1	3.3	3.4	3.5	3.6	3.7	3.8	3.8	3.8	3.8								
168-D1	9.26																	81	72	64	57	50					
	22.26																	4.1	4.2	4.3	4.3	4.3					

Bold type — Capacity governed by stresses, others governed by flexural strength

Values below heavy line require release strengths higher than 3500 psi.