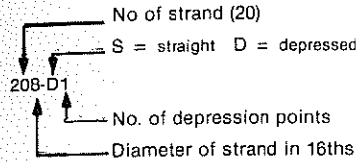


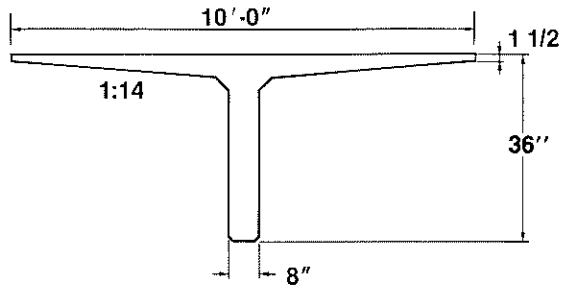
SINGLE TEE

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.

10'-0" x 36"



Section Properties

A	=	686 in. ²
I	=	74,607 in. ⁴
Y _b	=	27.28 in.
Y _t	=	8.72 in.
Z _b	=	2735 in. ³
Z _t	=	8556 in. ³
wt	=	715 plf
		72 psf
V/S	=	2.20 in.

Key

- 131 — Safe superimposed service load, psf
- 1.5 — Estimated camber at erection, in.
- 1.8 — Estimated long-time camber, in.

$f'_c = 5000$ psi

$f_{pu} = 270,000$ psi

Low-relaxation strand

10ST36

Table of safe superimposed service load (psf) and cambers Normal Weight Concrete — No Topping

Strand Pattern	e _o e _c	Span, ft.																							
		54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	
128-D1	14.95	131	118	106	95	86	77	69	62	55	49	43	38	33											
	24.03	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.1										
148-D1	12.42	156	141	128	116	105	95	86	77	70	63	57	51	45	40	36									
	23.78	1.7	1.7	1.8	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.8	1.7	1.6	1.4									
168-D1	10.53					123	112	102	93	84	77	69	63	57	51	46	41	37	33						
	22.33					2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.0	1.8	1.7	1.5						
188-D1	9.06									90	82	75	69	62	57	51	46	43	37	33					
	23.28									2.6	2.6	2.6	2.6	2.5	2.5	2.4	2.3	2.1	1.9	1.7					
208-D1	7.88														67	61	56	51	46	41	37	33			
	23.03														2.9	2.8	2.7	2.6	2.5	2.3	2.1	1.9			
228-D1	6.92																			59	54	49	45	41	37
	22.78																			3.1	3.0	2.8	2.7	2.5	2.3

10LST36

Table of safe superimposed service load (psf) and cambers Lightweight Concrete — No Topping

Strand Pattern	e _o 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		
128-D1	14.95	99	91	83	75	69	63	57	52	47	42	38	35	31												
	24.03	2.9	3.0	3.0	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.8	2.7	2.5												
148-D1	12.42	108	99	91	84	77	70	64	59	54	49	45	41	37	34	30										
	23.78	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.7	3.7	3.6	3.5	3.4	3.3	3.1	2.9										
168-D1	10.53							90	83	77	71	65	60	55	50	46	42	39	35	32	29					
	23.53							4.1	4.2	4.3	4.3	4.4	4.4	4.3	4.3	4.2	4.1	3.9	3.7	3.5	3.2					
188-D1	9.06									70	65	60	55	51	47	43	40	36	33	30						
	23.28									5.0	5.0	5.0	4.9	4.9	4.8	4.7	4.5	4.3	4.0	3.7						
208-D1	7.88																			55	51	47	44	40	37	34
	23.03																			5.5	5.5	5.3	5.2	5.0	4.8	4.6
228-D1	6.92																				47	43	40	37	34	
	22.78																			5.9	5.7	5.5	5.2	5.0	4.8	4.6

Strength based on strain compatibility; bottom tension limited to $12\sqrt{f'_c}$; see pages 2-3-2-5 for explanation

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