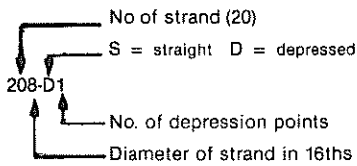


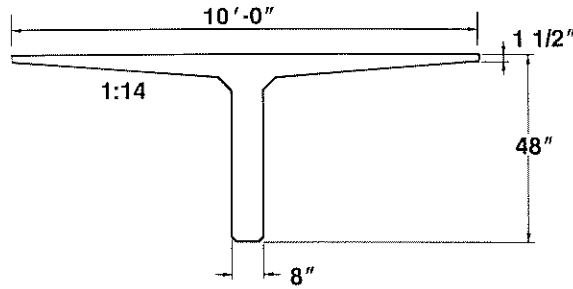
SINGLE TEE

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 48"



Section Properties

A =	782 in. ²
I =	16-8,968 in. ⁴
Y _b =	36.64 in.
Y _t =	11.36
Z _b =	4612 in. ³
Z _t =	14,873 in. ³
wt =	815 plf
	82 psf
V/S =	2.33 in.

Key

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

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

10ST48

Table of safe superimposed service load (psf) and cambers

Normal Weight Concrete — No Topping

Strand Pattern	e_e e_c	Span, ft.																		
		68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104
148-D1	23.78	126	115	105	96	88	80	73	66	60	54	49	44	39						
	33.14	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.2	1.1	1.0	0.9						
168-D1	20.39	148	136	125	115	105	97	89	81	74	68	62	56	51	46	42				
	32.89	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.5	1.5	1.4	1.2	1.1				
188-D1	17.75	169	156	144	133	122	113	104	96	88	81	75	69	63	57	52	48	43		
	32.64	1.8	1.8	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.8	1.7	1.6	1.4	1.3			
208-D1	15.44							119	110	102	94	87	80	74	68	63	58	53	48	44
	32.39							2.2	2.2	2.3	2.3	2.3	2.2	2.1	2.0	1.9	1.8	1.6	1.4	1.4
228-D1	13.73											99	92	85	79	73	67	62	57	53
	32.14											2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.1	2.0
248-D1	12.14																83	77	72	66
	31.89																2.7	2.7	2.6	2.6

10LST48

Table of safe superimposed service load (psf) and cambers

Lightweight Concrete — No Topping

Strand Pattern	e_e e_c	Span, ft.																						
		76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120
148-D1	23.78	103	96	88	82	76	70	64	59	55	50	46	42	39	35	32								
	33.14	2.8	2.8	2.9	2.9	2.9	2.9	2.8	2.8	2.7	2.6	2.5	2.4	2.3	2.1	1.9								
168-D1	20.39	121	112	104	97	90	84	78	72	67	62	57	53	49	45	41	38	35						
	32.89	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.1	3.0	2.9	2.7	2.6	2.3						
188-D1	17.75		129	120	112	104	97	90	84	78	73	68	63	59	55	51	47	43	40	36				
	32.64		3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.0	3.9	3.8	3.8	3.7	3.5	3.4	3.2	3.0	2.8					
208-D1	15.44								96	90	84	78	73	68	64	59	55	51	47	43	39	36		
	32.39								4.2	4.3	4.4	4.4	4.5	4.5	4.4	4.3	4.2	4.0	3.9	3.7	3.5	3.2	3.0	2.8
228-D1	13.73																							
	32.14																							
248-D1	12.14																							
	31.89																							

Bold type — Capacity governed by stresses, others governed by flexural strength
 Values below heavy line require release strengths higher than 3500 psi.