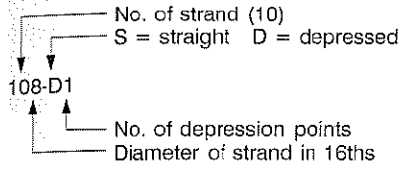


Strand Pattern Designation



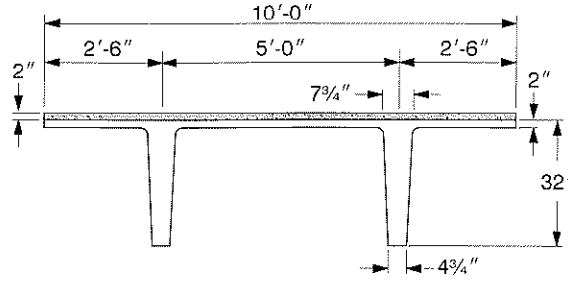
Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

Key

- 182 — Safe superimposed service load, psf
- 1.2 — Estimated camber at erection, in.
- 1.6 — Estimated long-time camber, in.

DOUBLE TEE

10'-0" x 32"
Normal Weight Concrete



$f'_c = 5,000$ psi
 $f_{pu} = 270,000$ psi

Section Properties

	Untopped	Topped
A	= 615 in ²	—
I	= 59,720 in ⁴	77,131 in ⁴
y_s	= 21.98 in.	24.54 in.
y_t	= 10.02 in.	9.46 in.
S_b	= 2,717 in ³	3,142 in ³
S_t	= 5,960 in ³	8,149 in ³
wt	= 641 plf	891 plf
	= 64 psf	89 psf
V/S	= 1.69 in.	

10DT32

Table of safe superimposed service load (psf) and cambers (in.)

No Topping

Strand Pattern	e_s , in. e_c , in.	Span, ft																						
		46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	
128-D1	12.81	182	163	146	131	118	106	95	86	77	69	62	55	49	44	39								
	18.73	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.3	1.2	1.1	1.0							
148-D1	10.48		191	172	155	140	127	115	104	94	85	77	70	63	57	51	46	41						
	18.48		1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.6	1.5	1.4	1.3	1.2					
168-D1	8.98			199	180	163	148	134	122	111	101	92	84	76	69	63	57	52	46	42				
	18.23			1.6	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.0	2.0	1.9	1.8	1.7	1.5	1.3				
188-D1	7.59							140	127	117	107	97	89	81	74	68	62	56	51	46				
	17.98							2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.0	1.8	1.7				
208-D1	6.48												110	101	93	85	78	72	66	60	55	50		
	17.73												2.5	2.6	2.6	2.6	2.5	2.5	2.4	2.3	2.2	2.0		
228-D1	5.57																	88	81	75	69	63	58	53
	17.48																	2.8	2.8	2.7	2.6	2.5	2.4	2.2

10DT32+2

Table of safe superimposed service load (psf) and cambers (in.)

2" Normal Weight Topping

Strand Pattern	e_s , in. e_c , in.	Span, ft																						
		42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76					
108-D1	16.08	179	157	138	121	106	92	81	70	60	52													
	18.98	0.9	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2													
128-D1	12.81		199	176	156	138	122	108	96	85	74	65	57											
	18.73		1.1	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.4	1.4											
148-D1	10.48				186	166	148	132	118	106	94	83	74	65	57									
	18.48				1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.7	1.7	1.7									
168-D1	8.98					194	174	156	140	126	113	101	91	81	72	64								
	18.23					1.6	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.0								
188-D1	7.59									145	131	118	107	96	86	77	69	62						
	17.98									2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3						
208-D1	6.48																		100	90	82	73	66	
	17.73																		2.5	2.6	2.6	2.6	2.5	

Strength based on strain compatibility; bottom tension limited to $12\sqrt{f'_c}$; see pages 2-2-2.6 for explanation. Shaded values require release strengths higher than 3500 psi.