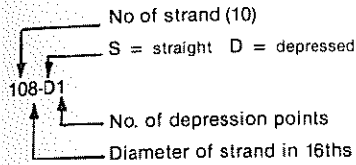


# DOUBLE TEE

## Strand Pattern Designation

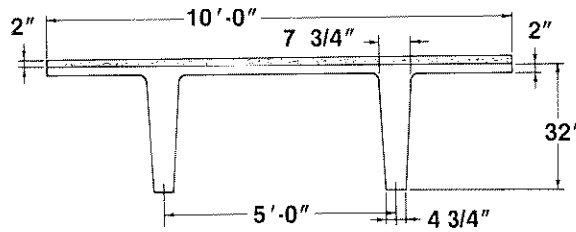


Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

### Key

- 128 — Safe superimposed service load, psf
- 2.2 — Estimated camber at erection, in.
- 2.6 — Estimated long-time camber, in.

10'-0" x 32"  
Lightweight Concrete



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

## Section Properties

	Untopped	Topped
A =	615 in. <sup>2</sup>	—
I =	59,720 in. <sup>4</sup>	77,118 in. <sup>4</sup>
$Y_b =$	21.98 in.	24.54 in.
$Y_t =$	10.02 in.	9.46 in.
$Z_b =$	2717 in. <sup>3</sup>	3142 in. <sup>3</sup>
$Z_t =$	5960 in. <sup>3</sup>	8152 in. <sup>3</sup>
wt =	491 plf	741 plf
	49 psf	74 psf
V/S =	1.69 in.	

**10LDT32**

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	$e_e$ $e_c$	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	12.81	128	116	106	96	88	80	73	66	60	55	50	45	41	37										
	18.73	2.2	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.2	2.1	1.9	1.7										
148-D1	10.48	150	137	125	114	104	95	87	80	73	67	62	56	51	46	41	37								
	18.48	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.0	2.9	2.9	2.8	2.8	2.6	2.5	2.3	2.1								
168-D1	8.98	172	157	144	132	121	111	102	94	86	78	72	65	60	54	49	45	40	36						
	18.23	2.6	2.7	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.5	3.5	3.4	3.3	3.1	2.9	2.7	2.5							
188-D1	7.59						114	105	96	88	81	74	68	62	57	52	47	43	39	35					
	17.98						3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.0	3.9	3.7	3.6	3.3	3.1	2.8					
208-D1	6.48										82	76	70	64	59	54	49	45	41	37					
	17.73										4.2	4.2	4.3	4.3	4.3	4.2	4.1	4.0	3.7	3.4					
228-D1	5.57																60	55	50	46	42	38	35		
	17.48																4.6	4.5	4.5	4.3	4.2	4.0	3.6		

**10LDT32 + 2**

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	$e_e$ $e_c$	Span, ft.																							
		42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78					
108-D1	16.08	188	166	147	130	115	102	90	80	71	62	55	48												
	18.98	1.3	1.5	1.6	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	1.9												
128-D1	12.81		184	165	147	132	118	105	94	84	75	67	60	53											
	18.73		1.9	1.8	2.1	2.1	2.2	2.3	2.4	2.4	2.4	2.4	2.4	2.4											
148-D1	10.48			195	175	157	142	127	115	104	93	84	75	67	58	50									
	18.48			2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.0	2.9	2.9									
168-D1	8.98					165	149	135	122	111	101	90	80	70	62	54									
	18.23					2.6	2.7	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.5	3.5									
188-D1	7.59										103	92	82	73	64	57	49								
	17.98										1.8	1.6	1.4	1.1	0.8	0.4	0.0								
208-D1	6.48																66	59							
	17.73																4.2	4.2							

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

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