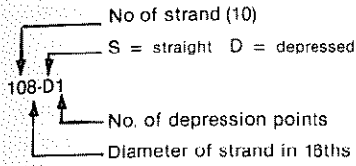


DOUBLE TEE

Strand Pattern Designation

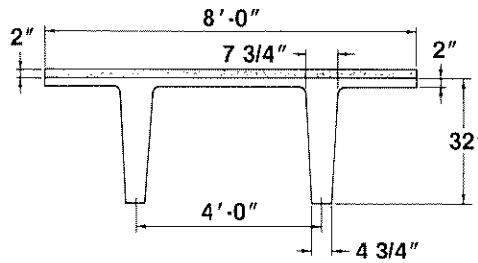


Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

Key

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

8'-0" x 32"
Lightweight Concrete



Section Properties

	Untopped	Topped
A	567 in. ²	—
I	55,464 in. ⁴	77,617 in. ⁴
Y _b	21.21 in.	24.55 in.
Y _t	10.79 in.	9.45 in.
Z _b	2615 in. ³	3167 in. ³
Z _t	5140 in. ³	8213 in. ³
wt	453 plf	653 plf
	57 psf	82 psf
V/S	1.79 in.	

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

8LDT32

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	e _e e _c	Span, ft.																								
		56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100		
128-D1	12.04	147	134	122	112	102	93	85	78	71	65	59	54	49	44											
	17.96	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.5	2.5	2.4	2.3	2.1	2.0	1.8											
148-D1	9.71	173	158	145	133	122	112	103	94	86	78	71	65	59	53	48	43									
	17.71	2.5	2.8	2.9	3.0	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.7	2.6	2.4	2.1									
168-D1	8.21	182	166	152	139	127	117	107	98	90	82	75	69	63	57	52	47	42								
	17.46	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.7	3.6	3.5	3.4	3.2	3.0	2.8	2.5								
188-D1	6.82								119	110	101	93	85	78	72	66	60	55	50	45	41					
	17.21								3.8	3.9	4.0	4.0	4.1	4.1	4.1	4.0	3.8	3.6	3.4	3.1	2.8					
208-D1	5.71													87	80	74	68	62	57	52	48	43				
	16.96													4.4	4.4	4.4	4.3	4.3	4.2	4.0	3.7	3.4				
228-D1	4.80																	70	64	59	54	49	45	41		
	16.71																	4.7	4.6	4.5	4.3	4.2	3.9	3.6		

8LDT32 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e _e e _c	Span, ft.																						
		46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82				
108-D1	15.31	190	169	151	135	120	107	96	85	76	67	59	52											
	18.21	1.6	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0											
128-D1	12.04		191	171	154	139	125	113	101	91	82	73	66	58										
	17.96		2.1	2.2	2.3	2.4	2.5	2.5	2.6	2.6	2.6	2.5	2.5											
148-D1	9.71				183	166	150	136	123	112	101	92	83	74	64									
	17.71				2.5	2.5	2.8	2.9	3.0	3.1	3.1	3.1	3.1	3.1	3.0									
168-D1	8.21					175	159	145	132	120	110	99	88	78	69	61								
	17.46					2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.7	3.6								
188-D1	6.82													114	102	92	82	73	64					
	17.21													3.8	3.9	4.0	4.0	4.1	4.1					
208-D1	5.71																		75	67				
	16.96																		4.4	4.4				

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

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