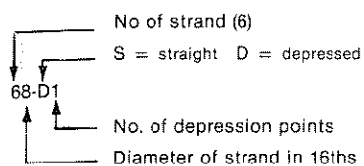


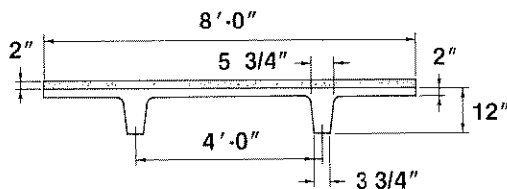
DOUBLE TEE

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.

8'-0" x 12"
 Lightweight Concrete



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

Section Properties

	Untopped	Topped
A =	287 in. ²	—
I =	2872 in. ⁴	4819 in. ⁴
$Y_b =$	9.13 in.	10.82 in.
$Y_t =$	2.87 in.	3.18 in.
$Z_b =$	315 in. ³	445 in. ³
$Z_t =$	1001 in. ³	1515 in. ³
wt =	229 plf	429 plf
	29 psf	54 psf
V/S =	1.22 in.	

Key

- 181 — Safe superimposed service load, psf
- 0.2 — Estimated camber at erection, in.
- 0.3 — Estimated long-time camber, in.

8LDT12

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	e_e e_c	Span, ft.														
		12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
28-S	7.13	181	141	113	89	68	52	40	31							
	7.13	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5							
48-S	5.13		191	150	118	93	75	61	49	40	33					
	5.13		0.3	0.7	0.8	0.9	1.0	1.1	1.1	1.1	1.1	1.1	1.0	0.8		
68-S	3.13			166	131	104	84	68	56	46	38	30				
	3.13			0.6	0.7	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.5	0.1	
68-D1	3.13										60	50	42	35		
	6.63										2.5	2.7	2.8	2.9		

8LDT12 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e_e e_c	Span, ft.											
		14	16	18	20	22	24	26	28	30	32	34	36
28-S	7.13	153	120	90	65	47	32						
	7.13	0.3	0.4	0.4	0.5	0.5	0.5						
48-S	5.13		172	131	101	78	61	45					
	5.13		0.7	0.8	0.9	1.0	1.1	1.1					
68-S	3.13			158	123	91	67	47					
	3.13			0.7	0.8	0.9	0.9	0.9					
68-D1	3.13									50	36		
	6.63									2.5	2.7		

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

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