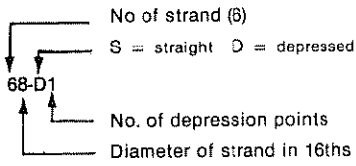


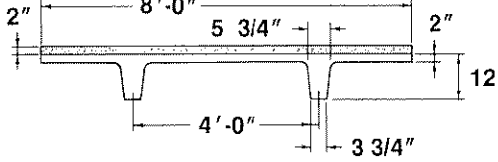
DOUBLE TEE

8'-0" x 12"
Normal Weight Concrete

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.



Section Properties

	Untopped	Topped
A =	287 in. ²	—
I =	2372 in. ⁴	4389 in. ⁴
Y _b =	9.13 in.	10.45 in.
Y _t =	2.87 in.	3.55 in.
Z _b =	315 in. ³	420 in. ³
Z _t =	1001 in. ³	1236 in. ³
wt =	299 plf	499 plf
	37 psf	62 psf
V/S =	1.22 in.	

Key

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

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

8DT12

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	e _o e _c	Span, ft.														
		12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
28-S	7.13	178	136	108	81	60	45	33								
	7.13	0.1	0.2	0.2	0.3	0.3	0.3	0.3								
48-S	5.13			187	143	110	86	68	53	42	33					
	5.13			0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.5					
68-S	3.13				159	123	97	77	61	49	39	31				
	3.13				0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.3				
68-D1	3.13									76	64	53	44	36		
	6.63									1.3	1.4	1.5	1.4	1.4		
88-D1	1.13														40	
	6.38														1.6	0.9

8DT12 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e _o e _c	Span, ft.														
		12	14	16	18	20	22	24	26	28	30	32	34			
28-S	7.13	199	149	115	83	58	39									
	7.13	0.1	0.2	0.2	0.3	0.3	0.3									
48-S	5.13				164	124	94	71	53							
	5.13				0.4	0.5	0.5	0.6	0.6							
68-S	3.13					198	150	110	79	55						
	3.13					0.4	0.4	0.5	0.5	0.5						
68-D1	3.13										74	55	39			
	6.63										1.3	1.4	1.5			

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