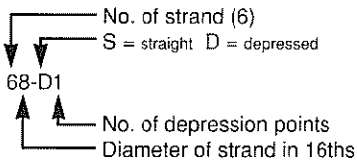


Strand Pattern Designation



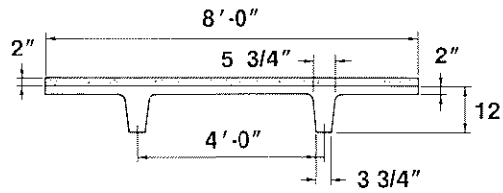
Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

Key

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

DOUBLE TEE

8'-0" x 12"
Normal Weight Concrete



Section Properties

	Untopped	Topped
A	= 287 in. ²	—
I	= 2,872 in. ⁴	4,389 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	= 1,001 in. ³	1,236 in. ³
wt	= 299 plf	499 plf
	37 psf	62 psf
V/S	= 1.22 in.	

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

8DT12

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	42	44
28-S	7.13	178	137	108	82	61	45	34										
	7.13	0.2	0.2	0.2	0.3	0.3	0.3	0.3										
48-S	5.13		188	146	113	88	69	55	43	34								
	5.13		0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7								
68-S	3.13			162	126	99	78	62	50	40	31							
	3.13			0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.4							
68-D1	3.13								94	78	65	54	45	38	31			
	6.63								1.4	1.5	1.6	1.6	1.7	1.7	1.6			
88-D1	1.13															38	32	
	6.38															1.8	1.7	

8DT12 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e _e e _c	Span, ft.											
		12	14	16	18	20	22	24	26	28	30	32	34
28-S	7.13	200	150	116	84	59	40						
	7.13	0.2	0.2	0.2	0.3	0.3	0.3						
48-S	5.13			168	127	96	73	55	41				
	5.13			0.5	0.5	0.6	0.6	0.7	0.7				
68-S	3.13				154	119	92	71	50				
	3.13				0.5	0.5	0.6	0.6	0.6				
68-D1	3.13								100	81	65	50	
	6.63								1.4	1.5	1.6	1.6	

Strength based on strain compatibility; bottom tension limited to $12\sqrt{f'_c}$; see pages 2-3-2-6 for explanation. Shaded values require release strengths higher than 3500 psi.