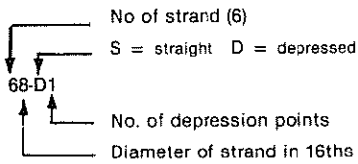
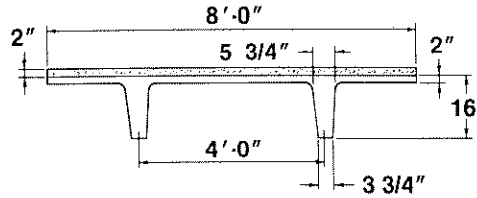


DOUBLE TEE

Strand Pattern Designation



8'-0" x 16"
Normal Weight Concrete



Section Properties

	Untopped	Topped
A =	325 in. ²	—
I =	6634 in. ⁴	9306 in. ⁴
Y _b =	11.93 in.	13.52 in.
Y _t =	4.07 in.	4.48 in.
Z _b =	556 in. ³	688 in. ³
Z _t =	1630 in. ³	2077 in. ³
wt =	339 plf	539 plf
	42 psf	67 psf
V/S =	1.29 in.	

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.

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

Key

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

8DT16

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	e _e e _c	Span, ft.																			
		14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
28-S	9.93	199	159	122	93	71	54	41	31												
	9.93	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2												
48-S	8.93				197	157	127	103	84	69	57	47	38	31							
	8.93				0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6							
68-S	5.93					182	147	121	100	82	68	57	47	39	32						
	5.93					0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.5					
68-D1	5.93							173	145	122	103	88	75	64	54	46	39	33			
	9.43							0.8	0.9	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.2	1.1			
88-D1	3.93														77	67	58	50	42	36	
	9.18														1.7	1.7	1.8	1.8	1.7	1.6	
108-D1	1.93																			46	40
	8.93																			1.9	1.8

8DT16 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e _e e _c	Span, ft.														
		16	18	20	22	24	26	28	30	32	34	36	38	40	42	
28-S	9.93	166	124	90	65	47	32									
	9.93	0.1	0.2	0.2	0.2	0.2	0.2									
48-S	8.93				164	129	102	81	64	50	38					
	8.93				0.5	0.5	0.6	0.6	0.7	0.7	0.7					
68-S	5.93					161	130	104	84	68	51					
	5.93					0.5	0.6	0.6	0.7	0.7	0.7					
68-D1	5.93							183	151	125	103	85	70	57	43	
	9.43							0.8	0.9	1.1	1.2	1.2	1.3	1.3	1.3	
88-D1	3.93														68	54
	9.18														1.7	1.7

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