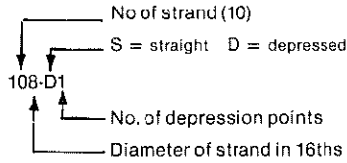


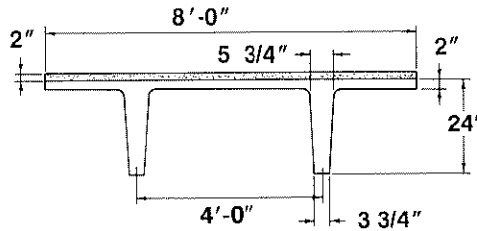
DOUBLE TEE

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 24"
Normal Weight Concrete



Section Properties

	Untopped	Topped
A	401 in. ²	—
I	20,985 in. ⁴	27,720 in. ⁴
Y _b	17.15 in.	19.27 in.
Y _t	6.85 in.	6.73 in.
Z _b	1224 in. ³	1438 in. ³
Z _t	3063 in. ³	4119 in. ³
wt	418 plf	618 plf
	52 psf	77 psf
V/S	1.41 in.	

Key

- 171 — Safe superimposed service load, psf
- 0.5 — Estimated camber at erection, in.
- 0.6 — Estimated long-time camber, in.

$f'_c = 5000$ psi
 $f_{pu} = 270,000$ psi
Stress-relieved strand

8DT24

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	e _e e _c	Span, ft.																							
		30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	
68-S	11.15	171	145	124	106	91	78	67	57	49	41	35													
	11.15	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5												
88-S	9.15	176	152	131	113	98	85	74	64	56	48	41	35												
	9.15	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5											
88-D1	9.15			187	163	143	126	111	98	87	77	68	60	53	47	41	36								
	14.40			1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.3	1.3	1.1	1.0	0.8	0.5	0.3						
108-D1	7.15					181	160	142	127	113	101	89	79	70	62	56	50	45	40	35					
	14.15					1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.6	1.5	1.4	1.2					
128-D1	5.48													106	95	84	75	67	59	53	47	42	38		
	13.90													2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.0	1.9	1.7		
148-D1	4.29																								
	13.65																								

8DT24 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e _e e _c	Span, ft.																						
		26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66		
48-S	14.15	180	147	120	98	80	65	52	41															
	14.15	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4															
68-S	11.15			171	143	120	100	84	70	58	47	38												
	11.15			0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6												
68-D1	11.15					181	153	130	111	94	80	67	56	47	38									
	14.65					0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6									
88-D1	9.15							186	161	139	121	105	91	78	67	58	48	39						
	14.40							1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.3							
108-D1	7.15									181	158	139	121	104	89	75	63	53	45	37				
	14.15									1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.7				
128-D1	5.48																							
	13.90																							

Strength based on strain compatibility; bottom tension limited to $12\sqrt{f'_c}$; see pages 2-3-2-5 for explanation
Values below heavy line require release strengths higher than 3500 psi.