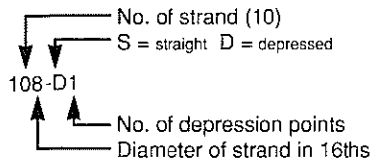


Strand Pattern Designation



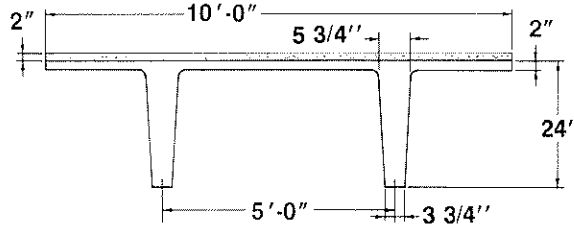
Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

Key

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

DOUBLE TEE

10'-0" x 24"
Normal Weight Concrete



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

Section Properties

	Untopped	Topped
A	449 in. ²	—
I	22,469 in. ⁴	29,404 in. ⁴
y_b	17.77 in.	19.89 in.
y_t	6.23 in.	6.11 in.
Z_b	1,264 in. ³	1,478 in. ³
Z_t	3,607 in. ³	4,812 in. ³
wt	468 plf	718 plf
	47 psf	72 psf
V/S	1.35 in.	

10DT24

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	11.77	136	115	97	83	71	60	51	43	37	31													
	11.77	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6													
88-S	9.77	166	141	121	104	90	77	67	57	49	42	36	31											
	9.77	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.6											
88-D1	9.77	199	172	149	130	114	100	88	77	68	60	52	46	40	35	30								
	15.02	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.4	1.4	1.3	1.2								
108-D1	7.77						128	113	101	89	80	71	63	56	50	44	39	34	30					
	14.77						1.6	1.7	1.7	1.8	1.9	1.9	2.0	2.0	1.9	1.9	1.8	1.7	1.6					
128-D1	6.10													79	71	64	57	51	46	41	36	32		
	14.52													2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.1	2.0		
148-D1	4.91																			51	46	41	37	33
	14.27																			2.8	2.7	2.6	2.5	2.4

10DT24 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e_e e_c	Span, ft.																						
		24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60				
48-S	14.77	173	139	112	91	73	58	46	35															
	14.77	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5															
68-S	11.77	196	162	134	111	91	75	62	50	40	32													
	11.77	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.6													
68-D1	11.77				168	140	118	99	83	70	58	48	39	31										
	15.27				0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.0	0.9	0.9										
88-D1	9.77				200	171	146	125	108	92	79	68	57	48	41									
	15.02				0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5									
108-D1	7.77									141	123	107	93	81	70	61	52	44						
	14.77									1.5	1.6	1.7	1.7	1.8	1.9	1.9	2.0	2.0						
128-D1	6.10															70	61	53	46					
	14.52															2.3	2.4	2.4	2.4					

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.