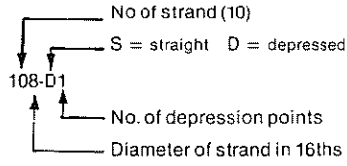


DOUBLE TEE

Strand Pattern Designation

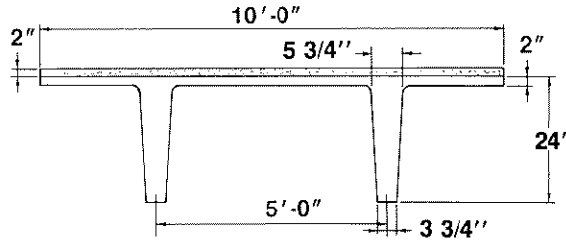


Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

Key

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

10'-0" x 24"
Normal Weight Concrete



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 =	1264 in. ³	1478 in. ³
Z _t =	3607 in. ³	4812 in. ³
wt =	468 plf	718 plf
	47 psf	72 psf
V/S =	1.35 in.	

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

10DT24

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	e _o 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	134	113	96	82	70	59	50	43	36	30														
	11.77	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6														
88-S	9.77	163	139	119	102	88	75	65	56	48	41	35	30												
	9.77	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.6												
88-D1	9.77	196	169	147	128	112	98	86	76	67	58	51	45	39	34										
	15.02	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.3										
108-D1	7.77					142	125	111	99	87	78	69	61	55	40	43	38	33							
	14.77					1.5	1.6	1.7	1.7	1.8	1.9	1.9	2.0	2.0	1.9	1.9	1.8	1.7							
128-D1	6.10													77	69	62	55	50	44	39	35	31			
	14.52													2.3	2.4	2.4	2.4	2.3	2.3	2.1	2.0				
148-D1	4.91																			50	45	40	36	32	
	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 _o e _c	Span, ft.																							
		24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62				
48-S	14.77	171	138	111	89	72	57	45	34																
	14.77	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5																
68-S	11.77	193	158	131	108	89	74	60	49	39	31														
	11.77	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7														
68-D1	11.77	198	165	138	116	97	81	68	56	46	38	30													
	15.27	0.6	0.7	0.7	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.0													
88-D1	9.77				196	167	143	122	105	90	77	65	56	47	39										
	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								138	120	105	91	79	68	59	50	43								
	14.77								1.5	1.6	1.7	1.7	1.8	1.9	1.9	2.0	2.0								
128-D1	6.10																	68	59	51	44	38			
	14.52																	2.3	2.4	2.4	2.4	2.4			

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.