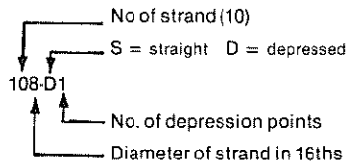


DOUBLE TEE

Strand Pattern Designation

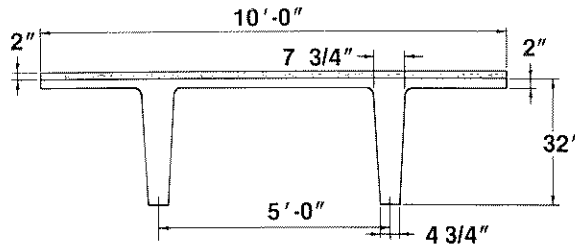


Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

Key

- 200 — Safe superimposed service load, psf
- 1.1 — Estimated camber at erection, in.
- 1.3 — Estimated long-time camber, in.

10'-0" x 32"
Normal Weight Concrete



Section Properties

	Untopped	Topped
A =	615 in. ²	—
I =	59,720 in. ⁴	77,118 in. ⁴
Y _b =	21.98 in.	24.54 in.
Y _t =	10.02 in.	9.46 in.
Z _b =	2717 in. ³	3142 in. ³
Z _t =	5960 in. ³	8152 in. ³
wt =	641 plf	891 plf
	64 psf	89 psf
V/S =	1.69 in.	

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

10DT32

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Pattern	e_e e_c	Span, ft.																						
		44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	
128-D1	12.81	200	179	160	143	129	116	104	93	84	75	68	61	54	48	43								
	18.73	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.1	1.0	0.9	0.8								
148-D1	10.48			187	169	152	137	124	112	102	92	83	75	68	61	55	49							
	18.48			1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.2	1.0							
168-D1	8.98				194	176	159	145	131	119	109	99	90	82	74	67	60	54	48					
	18.23				1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.2	1.0							
188-D1	7.59								150	137	125	114	104	94	86	77	70	63	56	50	45			
	17.98								1.8	1.9	1.9	2.0	2.0	2.0	2.0	1.7	1.6	1.5	1.4	1.2	1.0			
208-D1	6.48													105	96	87	79	72	65	58	52	47		
	17.73													2.2	2.2	2.2	2.2	2.1	1.9	1.8	1.6			
228-D1	5.57																	88	80	73	66	60	54	49
	17.48																	2.4	2.4	2.3	2.2	2.0	1.8	1.8

10DT32+2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Pattern	e_e e_c	Span, ft.																						
		42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74						
108-D1	16.08	175	154	134	118	103	90	78	68	58	50													
	18.98	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.9													
128-D1	12.81		195	172	152	135	119	105	93	82	72	63												
	18.73		1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2												
148-D1	10.48				182	162	145	129	115	103	91	81	72	63										
	18.48				1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4										
168-D1	8.98					190	170	153	137	123	110	99	88	78	67									
	18.23					1.4	1.5	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.7									
188-D1	7.59									142	128	116	104	92	80	70	61							
	17.98									1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0							
208-D1	6.48																	93	82	72	62			
	17.73																	2.2	2.2	2.2	2.2			

Bold type — Capacity governed by stresses, others governed by flexural strength

Values below heavy line require release strengths higher than 3500 psi.