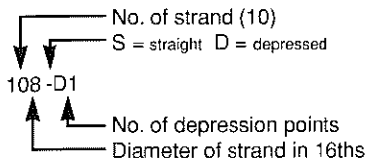


Strand Pattern Designation



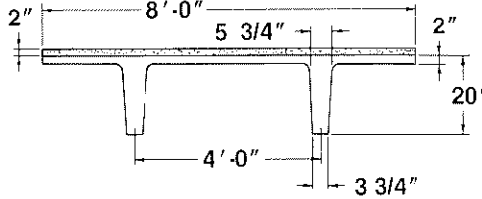
Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

Key

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

DOUBLE TEE

8'-0" x 20"
Normal Weight Concrete



Section Properties

	Untopped	Topped
A	= 363 in. ²	—
I	= 12,551 in. ⁴	16,935 in. ⁴
y _b	= 14.59 in.	16.45 in.
y _t	= 5.41 in.	5.55 in.
Z _b	= 880 in. ³	1,029 in. ³
Z _t	= 2,320 in. ³	3,051 in. ³
wt	= 378 plf	578 plf
	47 psf	72 psf
V/S	= 1.35 in.	

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

8DT20

Table of safe superimposed service load (psf) and cambers

No 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	62	64	66	68
48-S	11.59	175	144	119	99	82	69	57	48	39	32													
	11.59	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6													
68-S	8.59	184	153	129	109	92	78	66	56	47	40	33												
	8.59	0.5	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.7											
68-D1	8.59			171	146	125	107	93	80	69	60	51	44	38	32									
	12.09			0.9	1.0	1.0	1.1	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.0									
88-D1	6.59					170	147	128	112	98	86	76	67	58	51	45	39	34						
	11.84					1.3	1.4	1.5	1.6	1.7	1.8	1.8	1.8	1.9	1.8	1.8	1.7	1.6						
108-D1	4.59													77	68	61	54	48	42	37	32			
	11.59													2.2	2.3	2.3	2.2	2.2	2.2	2.0	1.8			
128-D1	2.92																			54	48	43	38	34
	11.34																			2.6	2.5	2.4	2.3	2.0

8DT20 + 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
48-S	11.59	179	144	115	94	76	61	48	37								
	11.59	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6								
68-S	8.59	193	158	131	108	89	73	60	49	39							
	8.59	0.5	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8							
68-D1	8.59			173	145	122	103	87	73	60	50	41					
	12.09			0.9	1.0	1.0	1.1	1.2	1.2	1.2	1.3	1.2					
88-D1	6.59					172	148	127	109	93	80	68	58	49	41		
	11.84					1.3	1.4	1.5	1.6	1.7	1.8	1.8	1.9	1.9	1.8		
108-D1	4.59													70	60	51	
	11.59													2.2	2.3	2.3	

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.