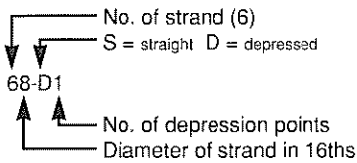


**Strand Pattern Designation**



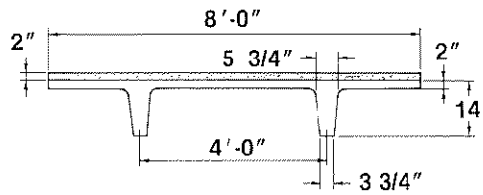
Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

**Key**

- 168 — Safe superimposed service load, psf
- 0.2 — Estimated camber at erection, in.
- 0.2 — Estimated long-time camber, in.

**DOUBLE TEE**

**8'-0" x 14"**  
**Normal Weight Concrete**



**Section Properties**

	Untopped	Topped
A	= 306 in. <sup>2</sup>	—
I	= 4,508 in. <sup>4</sup>	6,539 in. <sup>4</sup>
y <sub>b</sub>	= 10.51 in.	11.97 in.
y <sub>t</sub>	= 3.49 in.	4.03 in.
Z <sub>b</sub>	= 429 in. <sup>3</sup>	546 in. <sup>3</sup>
Z <sub>t</sub>	= 1,292 in. <sup>3</sup>	1,623 in. <sup>3</sup>
wt	= 319 plf	519 plf
	40 psf	65 psf
V/S	= 1.25 in.	

**8DT14**

**Table of safe superimposed service load (psf) and cambers**

**No Topping**

Strand Pattern	e <sub>e</sub> e <sub>c</sub>	Span, ft.																	
		14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
28-S	8.51	168	134	103	77	58	44	33											
	8.51	0.2	0.2	0.2	0.3	0.3	0.3	0.3											
48-S	7.51			165	131	105	85	69	56	46	37	30							
	7.51			0.5	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.8							
68-S	4.51			178	142	114	93	76	62	51	41	34							
	4.51			0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.6							
68-D1	4.51						145	121	101	85	72	61	51	43	36	30			
	8.01						1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.6	1.5	1.4			
88-D1	2.51													61	53	45	39	33	
	7.76													2.0	2.0	2.0	2.0	1.9	

**8DT14 + 2**

**Table of safe superimposed service load (psf) and cambers**

**2" Normal Weight Topping**

Strand Pattern	e <sub>e</sub> e <sub>c</sub>	Span, ft.																	
		14	16	18	20	22	24	26	28	30	32	34	36	38					
28-S	8.51	181	141	105	75	53	37												
	8.51	0.2	0.2	0.2	0.3	0.3	0.3												
48-S	7.51			179	139	109	85	67	51	39									
	7.51			0.5	0.6	0.7	0.8	0.8	0.9	0.9									
68-S	4.51			162	128	102	81	64	50										
	4.51			0.5	0.6	0.7	0.7	0.7	0.7										
68-D1	4.51						155	127	104	85	70	57	46						
	8.01						1.0	1.0	1.0	0.9	0.7	0.5	0.2						

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.