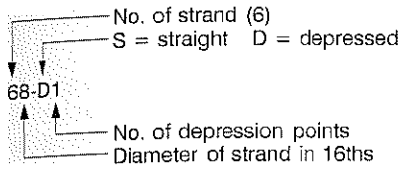


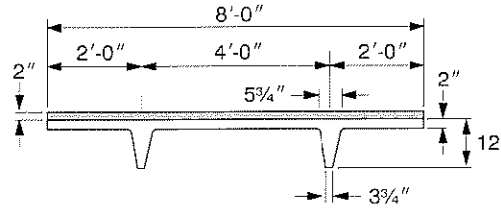
**Strand Pattern Designation**



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

**DOUBLE TEE**  
**8'-0" x 12"**  
**Normal Weight Concrete**



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

**Section Properties**

	Untopped	Topped
A	= 287 in <sup>2</sup>	—
I	= 2,872 in <sup>4</sup>	4,389 in <sup>4</sup>
y <sub>b</sub>	= 9.13 in.	10.45 in.
y <sub>t</sub>	= 2.87 in.	3.55 in.
S <sub>b</sub>	= 315 in <sup>3</sup>	420 in <sup>3</sup>
S <sub>t</sub>	= 1,001 in <sup>3</sup>	1,236 in <sup>3</sup>
wt	= 299 plf	499 plf
	37 psf	62 psf
V/S	= 1.22 in.	

**8DT12**

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

**No Topping**

Strand Pattern	e <sub>s</sub> , in. e <sub>c</sub> , in.	Span, ft																
		12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
28-S	7.13	178	137	108	82	61	45	34										
	7.13	0.2	0.2	0.2	0.3	0.3	0.3	0.3										
48-S	5.13			188	146	113	88	69	55	43	34							
	5.13			0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7							
68-S	3.13				162	126	99	78	62	50	40	31						
	3.13				0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.4						
68-D1	3.13									94	78	65	54	45	38	31		
	6.63									1.4	1.5	1.6	1.6	1.7	1.7	1.6		
88-D1	1.13															38	32	
	6.38															1.8	1.7	

**8DT12 + 2**

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

**2" Normal Weight Topping**

Strand Pattern	e <sub>s</sub> , in. e <sub>c</sub> , in.	Span, ft																
		12	14	16	18	20	22	24	26	28	30	32	34					
28-S	7.13	200	150	116	84	59	40											
	7.13	0.2	0.2	0.2	0.3	0.3	0.3											
48-S	5.13				168	127	96	73	55	41								
	5.13				0.5	0.5	0.6	0.6	0.7	0.7								
68-S	3.13					154	119	92	72	50								
	3.13					0.5	0.5	0.6	0.6	0.6								
68-D1	3.13									100	81	65	50					
	6.63									1.4	1.5	1.6	1.6					

Strength based on strain compatibility; bottom tension limited to 12√f<sub>c</sub>; see pages 2-2–2-6 for explanation.  
 Shaded values require release strengths higher than 3500 psi.