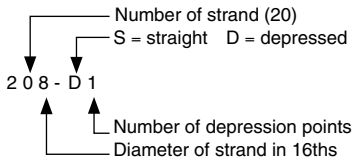


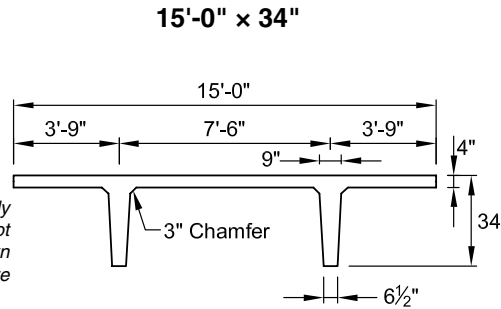
### 3.5 Pretopped Double-Tee Load Tables (cont.)

#### Strand Pattern Designation



Because these units are pretopped and are typically used in parking structures, safe loads shown do not include any superimposed dead loads. Loads shown are live load. Long-time cambers do not include live load.

- Key  
 174 – Safe superimposed service load, lb/ft<sup>2</sup>  
 0.3 – Estimated camber at erection, in.  
 0.4 – Estimated long-time camber, in.



Section Properties	
Normalweight	Lightweight
A = 1185 in. <sup>2</sup>	1185 in. <sup>2</sup>
I = 109,621 in. <sup>4</sup>	109,621 in. <sup>4</sup>
y <sub>b</sub> = 25.65 in.	22.65 in.
y <sub>t</sub> = 8.35 in.	8.35 in.
S <sub>b</sub> = 4274 in. <sup>3</sup>	4274 in. <sup>3</sup>
S <sub>t</sub> = 13,121 in. <sup>3</sup>	13,121 in. <sup>3</sup>
wt = 1234 lb/ft	946 lb/ft
DL = 82 lb/ft <sup>2</sup>	63 lb/ft <sup>2</sup>
V/S = 2.45 in.	2.45 in.

- f'<sub>c</sub> = 5000 psi  
 f<sub>pu</sub> = 270,000 psi  
 1/2-in.-diameter regular strand

Check with regional producers for availability.

**15DT34**

Table of safe superimposed service load, lb/ft<sup>2</sup>, and cambers, in.

Normalweight — No Topping

Strand pattern	y <sub>s</sub> in.	Span, ft																													
		32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	
88-S	7.00	174	147	124	105	89	75	63	52	43	35	27																			
		0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1																			
		0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.1																			
128-S	5.83				198	173	151	132	116	101	89	77	67	58	50	43	36	30													
					0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.3														
					0.8	0.9	0.9	0.9	1.0	1.0	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.3													
168-S	5.69						197	175	156	139	124	110	98	87	77	69	61	53	47	41	35	30	25								
							1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.0	0.8	0.7	0.5	0.3								
							1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.5	1.4	1.3	1.1	0.9	0.6	0.3								
208-S	5.95																														
248-S	6.42																														

**15LDT34**

Table of safe superimposed service load, lb/ft<sup>2</sup>, and cambers, in.

Lightweight — No Topping

Strand pattern	y <sub>s</sub> in.	Span, ft																														
		32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92
88-S	7.00	188	161	139	120	103	89	77	67	57	49	42	35	30																		
		0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3																		
		0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4																		
128-S	5.83																															
168-S	5.69																															
208-S	5.95																															
248-S	6.42																															

Strength is based on strain compatibility; bottom tension is limited to 12√f'<sub>c</sub>; see pages 3-8 through 3-11 for explanation. Shaded values require release strengths higher than 3500 psi.