### 3.4 Double-Tee Load Tables (cont.)

#### Strand Pattern Designation

- **168-D1**
- **188-D1**

#### Table of superimposed service load capacity, lb/ft², and cambers, in.

<table>
<thead>
<tr>
<th>Strand Pattern</th>
<th>No topping</th>
<th>3 in. topping</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12DT28</td>
<td>12DT28 + 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Span, ft</th>
<th>12 ft 0 in. x 28 in. normalweight concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 in.</td>
<td>12 ft 0 in.</td>
</tr>
<tr>
<td>28 in.</td>
<td>12 ft 0 in.</td>
</tr>
</tbody>
</table>

**Load capacities shown include dead load of 10 lb/ft² for untopped members and 15 lb/ft² for topped members. Remaider is live load. Long-time cambers include superimposed dead load but do not include live load.**

**Key**
- 135 – Superimposed service load capacity, lb/ft²
- 0.9 – Estimated camber at erection, in.
- 1.1 – Estimated long-time camber, in.
- Check with regional producers for availability.

**Number of Depression Points**

- S = straight
- D = depressed

**Number of strands (16)**

- 1 6 8 – D 1

**Section Properties**

- No topping
- 3 in. topping (F = 3000 psi)

- A = 613 in.²
- L = 43,700 in.⁴
- M = 108 lb/ft²
- yₖ = 20.13 in.
- y₄ = 7.87 in.
- Sₚ = 2171 in.³
- Sₜ = 5552 in.³
- wt = 639 lb/ft
- DL = 53 lb/ft²
- V/S = 1.57 in.

**Fₚ = 5000 psi**

**fₑₑ = 270,000 psi**

**½ in. diameter regular strand**

**Load capacities**

- fₑₑ = 5000 psi

**Shaded values**

- Require release strengths higher than 3500 psi.

**Check with regional producers for availability.**

**Table of superimposed service load capacity, lb/ft², and cambers, in.**

- **12DT28**
- **12DT28 + 3**

<table>
<thead>
<tr>
<th>Strand Pattern</th>
<th>12 DT28 + 3</th>
<th>3 in. normalweight topping</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12 DT28</td>
<td>12 DT28 + 3</td>
</tr>
</tbody>
</table>

**Strength is based on strain compatibility; bottom tension is limited to 12 \( \sqrt{f} \); see pages 3–8 through 3–11 for explanation.**

**Shaded values**

- Require release strengths higher than 3500 psi.