DOUBLE TEE
10'-0" x 32'
Lightweight Concrete

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

Key
128 — Safe superimposed service load, psf
2.5 — Estimated camber at erection, in.
2.9 — Estimated long-time camber, in.

\[ f' = 5000 \text{ psi} \]
\[ f_{cu} = 270,000 \text{ psi} \]
Low-relaxation strand

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Table of safe superimposed service load (psf) and cambers

<table>
<thead>
<tr>
<th>Strand Pattern</th>
<th>( \varepsilon_\text{a} )</th>
<th>( \varepsilon_\text{c} )</th>
<th>Span, ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>128-D1</td>
<td>12.8</td>
<td>18.73</td>
<td>128 116 105 96 89 80 73 66 55 50 45 41 37 34</td>
</tr>
<tr>
<td>148-D1</td>
<td>10.48</td>
<td>18.45</td>
<td>150 137 125 114 104 95 87 80 73 67 62 56 52 47 43 39 36</td>
</tr>
<tr>
<td>168-D1</td>
<td>8.98</td>
<td>18.23</td>
<td>172 157 145 137 130 121 111 102 94 87 80 73 66 60 55 49 44 41 37</td>
</tr>
<tr>
<td>188-D1</td>
<td>7.59</td>
<td>17.98</td>
<td>172 152 144 132 120 110 99 89 82 72 67 62 57 53 49 45 41 38</td>
</tr>
<tr>
<td>208-D1</td>
<td>6.46</td>
<td>17.33</td>
<td>172 152 144 133 119 107 96 89 82 72 67 62 57 53 49 44 41</td>
</tr>
<tr>
<td>228-D1</td>
<td>5.57</td>
<td>17.48</td>
<td>172 157 149 136 130 120 110 99 89 82 72 67 62 57 53 49 44 41</td>
</tr>
</tbody>
</table>

No Topping

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Table of safe superimposed service load (psf) and cambers

<table>
<thead>
<tr>
<th>Strand Pattern</th>
<th>( \varepsilon_\text{a} )</th>
<th>( \varepsilon_\text{c} )</th>
<th>Span, ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-D1</td>
<td>16.08</td>
<td>18.98</td>
<td>188 168 147 130 115 102 90 80 71 62 55 48</td>
</tr>
<tr>
<td>128-D1</td>
<td>12.8</td>
<td>18.73</td>
<td>194 165 147 132 118 105 94 84 75 67 60 53</td>
</tr>
<tr>
<td>148-D1</td>
<td>10.48</td>
<td>18.46</td>
<td>199 178 161 142 127 115 104 93 84 75 68 61 54</td>
</tr>
<tr>
<td>168-D1</td>
<td>8.98</td>
<td>18.23</td>
<td>165 149 135 121 111 101 91 83 74 67 61</td>
</tr>
<tr>
<td>188-D1</td>
<td>7.59</td>
<td>17.98</td>
<td>106 96 88 80 72 60 50</td>
</tr>
<tr>
<td>208-D1</td>
<td>6.46</td>
<td>17.33</td>
<td>76 70</td>
</tr>
</tbody>
</table>

Strength based on strain compatibility; bottom tension limited to \( 12\sqrt{f'_{\text{c}}} \); see pages 2-3-2-5 for explanation. Values below heavy line require release strengths higher than 3500 psi.