# DOUBLE TEE

**TYPE “A” LOAD TABLE**

Table of safe superimposed live load (psf)

<table>
<thead>
<tr>
<th>Strand Pattern</th>
<th>22</th>
<th>24</th>
<th>26</th>
<th>28</th>
<th>30</th>
<th>32</th>
<th>34</th>
<th>36</th>
<th>38</th>
<th>40</th>
<th>42</th>
<th>44</th>
<th>46</th>
<th>48</th>
<th>50</th>
<th>52</th>
<th>54</th>
<th>56</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>48S</td>
<td>196*</td>
<td>157*</td>
<td>126*</td>
<td>102*</td>
<td>82*</td>
<td>66*</td>
<td>52*</td>
<td>41*</td>
<td>32*</td>
<td>24*</td>
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<td></td>
</tr>
<tr>
<td>69S</td>
<td>193*</td>
<td>160*</td>
<td>133*</td>
<td>110*</td>
<td>92*</td>
<td>76*</td>
<td>63*</td>
<td>52*</td>
<td>43*</td>
<td>34*</td>
<td>27*</td>
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<td></td>
</tr>
<tr>
<td>88S</td>
<td>178*</td>
<td>149*</td>
<td>124*</td>
<td>104*</td>
<td>88*</td>
<td>73*</td>
<td>61*</td>
<td>51*</td>
<td>41*</td>
<td>31*</td>
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<td></td>
</tr>
<tr>
<td>68-D1</td>
<td>208*</td>
<td>175*</td>
<td>148*</td>
<td>125*</td>
<td>106*</td>
<td>90*</td>
<td>78*</td>
<td>64*</td>
<td>54*</td>
<td>45*</td>
<td>37*</td>
<td>30*</td>
<td>24*</td>
<td>110*</td>
<td>95*</td>
<td>82*</td>
<td>70*</td>
<td>60*</td>
<td>52*</td>
</tr>
<tr>
<td>88-D1</td>
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</tr>
</tbody>
</table>

**Span, ft**

<table>
<thead>
<tr>
<th></th>
<th>24</th>
<th>34</th>
<th>27</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>110*</td>
<td>95*</td>
<td>82*</td>
</tr>
</tbody>
</table>

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**Dead Load**

<table>
<thead>
<tr>
<th>Strand Pattern</th>
<th>f_t</th>
<th>f_b</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>f_a</td>
<td></td>
</tr>
<tr>
<td>48S</td>
<td>153</td>
<td>182</td>
</tr>
<tr>
<td>69S</td>
<td>-413</td>
<td>-492</td>
</tr>
<tr>
<td>88S</td>
<td>0.080</td>
<td>0.113</td>
</tr>
<tr>
<td>68-D1</td>
<td>0.016</td>
<td>0.024</td>
</tr>
<tr>
<td>88-D1</td>
<td>0.010</td>
<td>0.026</td>
</tr>
</tbody>
</table>

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**100 plf Live Load**

<table>
<thead>
<tr>
<th>Strand Pattern</th>
<th>f_t</th>
<th>f_b</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>f_a</td>
<td></td>
</tr>
<tr>
<td>48S</td>
<td>-67</td>
<td>-80</td>
</tr>
<tr>
<td>69S</td>
<td>-109</td>
<td>-125</td>
</tr>
<tr>
<td>88S</td>
<td>0.018</td>
<td>0.024</td>
</tr>
<tr>
<td>68-D1</td>
<td>0.016</td>
<td>0.024</td>
</tr>
<tr>
<td>88-D1</td>
<td>0.010</td>
<td>0.024</td>
</tr>
</tbody>
</table>

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**Notation**

- f_t = top fiber stress, psi (after assumed 25% loss) (precast section)
- f_b = bottom fiber stress, psi (after assumed 25% loss)
- a = center deflection, in.
- 0.001 f_a^2 = initial center camber, in. (after assumed 10% loss)
- l = span (ft)
- M_u = ult. moment capacity, in.-kips

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**Strand Pattern Designation**

<table>
<thead>
<tr>
<th>No. of strand (10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S = straight, D = depressed</td>
</tr>
<tr>
<td>No. of depression points</td>
</tr>
<tr>
<td>Diameter of strand in 16ths</td>
</tr>
</tbody>
</table>

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**Section Properties**

- I = 18,278 in.^4
- y_o = 17.02 in.
- y_t = 4.98 in.
- Z_o = 1074 in.^3
- Z_t = 3670 in.^3
- w_t = 490 plf
- 61 psf

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See preceding page for untopped section properties.