### TECHNICAL BULLETIN

**Issue Date:** June 1, 2006

**No. 07-239-06**

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**Multi-V**

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**SECTION PROPERTIES**

<table>
<thead>
<tr>
<th>GAUGE</th>
<th>FY (KSI)</th>
<th>WEIGHT (PSF)</th>
<th>V_a (kip/ft.)</th>
<th>P_a_end (lbs/ft.)</th>
<th>P_a_int (lbs/ft.)</th>
<th>I_x (in.4/ft.)</th>
<th>S_a (in.3/ft.)</th>
<th>M_a (kip-in./ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>50.0</td>
<td>0.88</td>
<td>0.5301</td>
<td>111.98</td>
<td>195.33</td>
<td>0.0237</td>
<td>0.0447</td>
<td>1.1813</td>
</tr>
</tbody>
</table>

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1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. Va is the allowable shear.
3. Pa is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. Se is for bending.
6. Ma is the allowable bending moment.
7. All values are for one foot of panel width.

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**Notes:**

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is NOT increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is NOT increased by 33 1/3 %.
4. Live is the allowable live or snow load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has NOT been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load actually supported by the top flanges of the section.

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**Allowable Uniform Loads (PSF)**

<table>
<thead>
<tr>
<th>Span Type</th>
<th>Load Type</th>
<th>1.50</th>
<th>2.00</th>
<th>2.50</th>
<th>3.00</th>
<th>3.50</th>
<th>4.00</th>
<th>4.50</th>
<th>5.00</th>
<th>5.50</th>
<th>6.00</th>
<th>6.50</th>
<th>7.00</th>
<th>7.50</th>
<th>8.00</th>
<th>8.50</th>
<th>9.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>Positive Wind</td>
<td>163</td>
<td>122</td>
<td>98</td>
<td>81</td>
<td>64</td>
<td>49</td>
<td>38</td>
<td>31</td>
<td>26</td>
<td>21</td>
<td>18</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Negative Wind</td>
<td>334</td>
<td>188</td>
<td>120</td>
<td>83</td>
<td>61</td>
<td>47</td>
<td>37</td>
<td>30</td>
<td>24</td>
<td>20</td>
<td>17</td>
<td>15</td>
<td>13</td>
<td>11</td>
<td>10</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Live</td>
<td>163</td>
<td>122</td>
<td>98</td>
<td>81</td>
<td>64</td>
<td>49</td>
<td>38</td>
<td>31</td>
<td>26</td>
<td>21</td>
<td>18</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Deflection (L/180)</td>
<td>613</td>
<td>258</td>
<td>132</td>
<td>76</td>
<td>48</td>
<td>32</td>
<td>22</td>
<td>16</td>
<td>12</td>
<td>9</td>
<td>7</td>
<td>6</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deflection (L/240)</td>
<td>460</td>
<td>194</td>
<td>99</td>
<td>57</td>
<td>36</td>
<td>24</td>
<td>17</td>
<td>12</td>
<td>9</td>
<td>7</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Notes:**

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**CORPORATE OFFICE**

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