Overdriven fasteners will cause panel distortions. Fasteners should extend 1/2” or more past the inside face of the support material.

Thick panels (ex. 18 ga) or supports (ex. 1/2” steel) may require predrilling of holes for screws.

Panel Fasteners:
- Attaching to Wood:
  - #10-14 Wood Screw
  - #10-14 XL Wood Screw
- Attaching to Steel:
  - #12-14 Self Drilling Screw
  - #12-14 XL Self Drilling Screw

Side Lap Fastener:
- 1/4”-14 x 7/8” Stitch Screw
- 1/4”-14 x 7/8” XL Stitch Screw

Trim Fastener:
- 1/4”-14 x 7/8” Stitch Screw
- 1/4”-14 x 7/8” XL Stitch Screw

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**SECTION PROPERTIES**

<table>
<thead>
<tr>
<th>Ga</th>
<th>Width in</th>
<th>Yield ksi</th>
<th>Weight psf</th>
<th>Top in Compression</th>
<th>Bottom in Compression</th>
<th>Inward Load</th>
<th>Outward Load</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ixx in³/ft</td>
<td>Sxx in³/ft</td>
<td>Ixx in³/ft</td>
<td>Sxx in³/ft</td>
</tr>
<tr>
<td>29</td>
<td>36</td>
<td>80</td>
<td>0.62</td>
<td>0.0100</td>
<td>0.0151</td>
<td>0.0053</td>
<td>0.0118</td>
</tr>
<tr>
<td>26</td>
<td>36</td>
<td>80</td>
<td>0.79</td>
<td>0.0127</td>
<td>0.0192</td>
<td>0.0070</td>
<td>0.0153</td>
</tr>
<tr>
<td>24</td>
<td>36</td>
<td>50</td>
<td>1.03</td>
<td>0.0163</td>
<td>0.0249</td>
<td>0.0103</td>
<td>0.0208</td>
</tr>
</tbody>
</table>

1. Theoretical section properties have been calculated per AISI 2007 ‘North American Specification for the Design of Cold-Formed Steel Structural Members’. Ixx and Sxx are effective section properties for deflection and bending.

2. Allowable load is calculated in accordance with AISI 2007 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. Panel weight is not considered.

3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.

4. Allowable loads do not include a 1/3 stress increase for wind.

5. **Diaphragm Capacity** - 296 plf average Ultimate Shear Strength using the above fastening pattern on 2x supports located 2’ on center, per ASTM E 445.