The RST3 rafter tie is designed to anchor trusses and rafters directly to the stud below. The ability to field-bend the RST3 permits fastening to either the wide or narrow face of the stud.

**Materials:** 18 gauge  
**Finish:** G90 galvanizing

**Installation:**  
- Use all specified fasteners.  
- If necessary, field bend the lower tab of the RST3 at 90° at the two bend slots.  
- Not all fastener holes need to be filled.  
- Fasteners in truss do not need to penetrate a nailing plate to achieve the uplift loads listed below.  
- The RST3 can be installed in pairs (on opposite sides of the wall, to achieve twice the uplift capacity).

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<table>
<thead>
<tr>
<th>RST3</th>
<th>Rafter Tie</th>
</tr>
</thead>
</table>

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1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.  
2) The #8 x 1-1/2 Wood Screw has a diameter of 0.164” and a length of 1-1/2”.  
3) Fastener quantities shown are the total number installed in (1) or (2) RST3 connectors.
The MRT7 Rafter Tie is engineered for wood frame structures built in a factory environment. These connectors feature embossed “nailing zones” for faster and safer fastener installation.

Materials: 14 gauge
Finish: G90 galvanizing

Installation:
- Install all specified fasteners using a pneumatic nailer.
- Nailing zones are distinguished by embossed pattern.
- Install fasteners with care not to overdrive fastener causing indentation of connector.
- Fastener quantities shall be installed symmetrically on both sides of connector.
- Installer should reduce risk of injury from rebounding fasteners by using personal eye protection during fastener installation.
- Minimum center-to-center fastener spacing is 1”.

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>W</th>
<th>L</th>
<th>Type</th>
<th>160%</th>
<th>100%</th>
<th>90%</th>
<th>Indentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRT7</td>
<td>18</td>
<td>1-1/4</td>
<td>7-13/16</td>
<td>3</td>
<td>3</td>
<td>P or “T” nails</td>
<td>295</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>4</td>
<td>P or “T” nails</td>
<td>390</td>
<td>180</td>
<td>180</td>
<td>30</td>
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<tr>
<td></td>
<td>5</td>
<td>5</td>
<td>P or “T” nails</td>
<td>490</td>
<td>195</td>
<td>195</td>
<td>425</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>6</td>
<td>P or “T” nails</td>
<td>585</td>
<td>195</td>
<td>195</td>
<td>510</td>
</tr>
</tbody>
</table>

1) “P” nails denote fasteners designed specifically to be installed with a pneumatic-powered nailer. The fasteners shall be either of a type with round heads, 0.105” diameter and 1-3/8” long; or a “T” shaped head, 0.097” diameter, 1-1/4” long and hardened; or a similar but larger fastener.
2) Fasteners shall be pneumatically driven in such a way as firmly seats the nail head against the hanger steel, without embedding the nail head completely through the plane of the metal surface, or otherwise punching through.
3) The quantity of nails installed shall be equally distributed to both sides of the hanger. The nails shall be located at 1” spacing in a row, with the vertical rows spaced at 3/8”; also no less than 5/16” from a sheared edge and no less than 5/16” from a formed edge.
4) Uplift loads have been increased 60% for wind or seismic load conditions; no further increase shall be permitted.

SPTHW Stud Plate Ties

MiTek’s SPTHW is a Stud Plate Tie that can be installed on the top and bottom of each stud at the component plant to stiffen for shipping and handling. Designed to be installed over 1/2” structural sheathing.

Materials: 18 gauge
Finish: G90 galvanizing
Codes: IBC, FL, LA

Installation:
- Install all specified fasteners.

<table>
<thead>
<tr>
<th>Stud Size</th>
<th>Ref. No.</th>
<th>Steel Gauge</th>
<th>Dimensions (in)</th>
<th>Header Qty</th>
<th>Joist Qty</th>
<th>Type</th>
<th>DF/SP Allowable Loads (Lbs.)</th>
<th>Code Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x</td>
<td>SPTHW4</td>
<td>18</td>
<td>4-1/16</td>
<td>8-3/8</td>
<td>12</td>
<td>10d x 1-1/2</td>
<td>2195</td>
<td>IBC, FL, LA</td>
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<td>6x</td>
<td>SPTHW6</td>
<td>18</td>
<td>6-1/16</td>
<td>9-1/8</td>
<td>12</td>
<td>10d x 1-1/2</td>
<td>2195</td>
<td></td>
</tr>
</tbody>
</table>

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) NAILS: 10d x 1-1/2 nails are 0.148” dia. x 1-1/2” long.