### Truss/Rafter Hip to Wall

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Member Size</th>
<th>To Truss/Rafter</th>
<th>To Wall</th>
<th>DF/SP Allowable Loads (160)</th>
<th>SPF Allowable Loads (160)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TJC37 (1–85°)</td>
<td>2x4 min.</td>
<td>(6) 8dx1 1/2”</td>
<td>(6) 8dx1 1/2”</td>
<td>425’’</td>
<td>—</td>
</tr>
<tr>
<td>TJC57 (1–85°)</td>
<td>2x6 min.</td>
<td>(12) 8dx1 1/2”</td>
<td>(12) 8dx1 1/2”</td>
<td>830’’</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Fasteners

1. The HCP can be installed on the inside and the outside of the wall with a flat bottom chord truss and achieve twice the load capacity.

2. MTS12, HTS16, HTSM16 and MTSM16 can be field bent once to a 45° angle.

3. For concrete applications for the MTSM16 and HTSM16, use 1/4”x1 3/4” Titen® screws.

4. Minimum edge distance for 1/4” Titen® screw is 1 1/2” and 1/2” Titen HD® anchor is 4”.

5. To achieve the published loads, the FGTR must be attached to a grouted and reinforced block wall or reinforced concrete wall designed by others to transfer the uplift loads to the foundation.

6. FGTR is packaged with Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector screws and Titen HD anchors.

7. For alternate TJC installation angles, fasteners and load values, see the Wood Construction Connectors catalog or visit [www.strongtie.com](http://www.strongtie.com).

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Shaded cells grouted and reinforced per Designer (min.)

D24

MTS12 Installed at 45°

D25

FGTRHL

D26

MTSM16 Installed at 45°

D27

HCP

D28

FGTRHL (top view)

D29

Two HCP2s

Install Titen HD® anchors in every other hole on the part

Moisture barrier not shown for clarity
Truss/Rafter Hip to End Wall

Model No. Member Size (Min.) Fasteners DF/SP Allowable Loads SPF Allowable Loads

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<tbody>
<tr>
<td>MTSM16</td>
<td>(2) x 2</td>
<td>(7) 10d (4) 1/4 x 2 1/4 Titen</td>
<td>875 120 90</td>
<td>750 120 90</td>
</tr>
<tr>
<td>HTSM16</td>
<td>(2) x 2</td>
<td>(8) 10d (4) 1/4 x 2 1/4 Titen</td>
<td>1,175 120 90</td>
<td>1,020 120 90</td>
</tr>
<tr>
<td>MTAM24</td>
<td>(2) x 2</td>
<td>(9) 10d (5) 1/4 x 2 1/4 Titen</td>
<td>1,500 — —</td>
<td>1,500 — —</td>
</tr>
<tr>
<td>MTAM36</td>
<td>(2) x 2</td>
<td>(13) 10d (8) 1/4 x 2 1/4 Titen</td>
<td>1,870 — —</td>
<td>1,870 — —</td>
</tr>
<tr>
<td>MSTM40</td>
<td>(2) x 26 d Screw (14) 1/4 x 2 1/4 Titen</td>
<td>4,220 — —</td>
<td>4,220 — —</td>
<td></td>
</tr>
<tr>
<td>MSTM60</td>
<td>(2) x 26 d Screw (14) 1/4 x 2 1/4 Titen</td>
<td>4,220 — —</td>
<td>4,220 — —</td>
<td></td>
</tr>
<tr>
<td>FGTR</td>
<td>(2) x 18 1/4 x 3 SDS (2) 1/2 x 5 Titen HD</td>
<td>4,685 — —</td>
<td>4,300 — —</td>
<td></td>
</tr>
</tbody>
</table>

1. Minimum edge distance for 1/4" Titen® screw is 1 1/2".
2. Minimum edge distance for 1/2" Titen HD® anchor is 4".
3. For concrete tie beam applications, use 1/4"x1 1/4" Titen screws.
4. To achieve the published loads, the FGTR must be attached to a grouted and reinforced block wall or reinforced concrete wall designed by others to transfer the uplift loads to the foundation.
5. FGTR is packaged with Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector screws and Titen HD anchors.

6. When installing MTSM and HTSM connectors, the following installation instructions are required for lateral loads to apply:
   a) The first 4 holes for Titen screws after the bend area must be filled on the concrete/masonry end of the connection.
   b) The first 7 nail holes after the bend area must be filled with 10dx1 1/2" nails on the wood end of the connection.
   Any additional required nails may be placed in any open hole on the wood end of the strap.