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THA/THAC Adjustable Truss Hangers



WEINEER ED This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

The THA series have extra long straps that can be field-formed to give height adjustability and top flange hanger convenience. THA hangers can be installed as top flange or face mount hangers.

THA4x and THA2x-2 models feature a dense nail pattern in the straps, which provides more installation options and allows for easy top flange installation. MATERIAL: See table

FINISH: Galvanized. Some products available in ZMAX® coating; see Corrosion Information, page 10-11.

INSTALLATION: • Use all specified fasteners. See General Notes.

The following installation methods may be used:

• Top Flange Installation—The straps must be field formed over the header – see table for minimum top flange requirements. Install top and face nails according to the table. Top nails shall not be within 1/4" from the edge of the top flange members.

For the THA29, nails used for joist attachment must be driven at an

- For the IHAZ9, nails used for joist attachment must be driven at an angle so that they penetrate through the corner of the joist and into the header. For all other top flange installations, straighten the double shear nailing tabs and install the nails straight into the joist.

 Face Mount Installation—Install all face nails according to the table. Not all nail holes will be filled on all models. On models where there are more nail holes than required, the lowest 4 face holes must be filled. Nails used for the joist attachment must be driven at an angle so that they penetrate through the corner of the joist into the header.
- Alternate Installation— The THA 4x hangers may be installed in a top flange configuration using the tabulated fasteners for face mount installation and achieve the face mount installation loads. Install the tabulated face nails into the face and top of the carrying member. Nails used for the joist attachment must be driven at an angle so that they penetrate through the corner of the joist into the header.

 OPTIONS: • THA hangers available with the header flanges turned in for 35%" (except THA413) and larger, with no load reduction – order THAC hanger.

These products are available with additional corrosion protection. Additional products on

this page may also be available with this option, check with Simpson Strong-Tie for details

CODES: See page 12 for Code Reference Key Chart.





Double Shear Nailing Side View Do not bend tab unless otherwise noted



Dome Double Shear Nailing Side View (available on some models) U.S. Patent 5.603.580

THAC422

2 Face nails

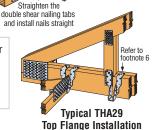
total

Double 4x2 -

Use full table value

Single 4x2

footnote 3



THA418

Typical

THA422

Top Flange

Installation

on a 4x2 Floor Truss

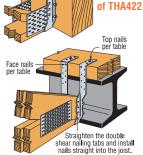
Top Nails (Total)

0 THA29 Typical THÁ29 Face

Mount Installation

Alternate

Installation



Typical THA Top Flange Installation on a Nailer (except THA29)

DF/SP Allowable Loads SPF/HF Allowable Loads **Dimensions** Fasteners Min.5 Min. Model Carrying Code Carried Ga Top Header Uplift Floor Snow Roof Wind Uplift Floor Snow Roof Wind Member Member No. W C Ref. Flange Depth (125) (160) (160) (160)(100) (115) (100)(115) (125) (160)Top Straight Slant Face TOP FLANGE INSTALLATION³ THA29 18 1% 911/16 51/8 21/16 4-10d | 4-10d 4-10d 750 2260 2310 2350 2350 645 1740 1785 1815 1815 THA213 135/16 4-10d 2-10d 1615 1615 1615 1280 1280 1280 1280 18 15% 51/2 11/6 4-10dx11/2 1615 THA218 18 2 4-10d 2-10d 1615 1615 1280 1280 1280 1280 1% 173/16 51/2 4-10dx11/2 1615 1615 THA218-2 2 4-16d 2-16d 16 1711/16 8 6-10 18, L1, F7 31/8 2 2-16d THA222-2 16 31/8 223/16 8 4-16d 6-1 THA413 18 | 3% | 135/16 41/2 11/2 4-10d 2-10d 4-10d 1615 1615 1615 1615 1280 1280 1280 1280 THA418 2 2-16d 6-100 16 35% 171/2 7% 4-16d THA422 3% 22 2 4-16d 2-16d 6-100 18, F7 16 7% 14 3% 26 2 4-16d 2435 F23 THA426 7% 4-16d 6-16d THA422-2 14 7¼ 22¹1/16 2 4-16d 4-16d 93/4 6-16d L1 THA426-2 | 14 | 7¼ | 261/16 93/4 2 4-16d 4-16d 6-16d 170 FACE MOUNT INSTALLATION⁴ THA29 18 1% 911/16 51/8 911/16 16-10d 4-10d 750 2125 2310 2350 2350 645 1740 1785 1815 1815 THA213 135/16 5½ 135/16 14-10d 4-10d 930 1795 1840 1870 1870 780 1385 1425 1450 1450 18 1% THA218 18 1% 173/16 5½ 173/16 18-10d 4-10d 1795 1840 1870 1870 780 930 1385 1425 1450 1450 1711/16 141/16 THA218-2 31/8 8 2-16d 6-16d 18, L1, F7 16 THA222-2 16 31/8 223/16 8 141/16 22-16d 6-16d THA413 18 3% 135/16 41/2 13% 14-10d 4-10d 930 1940 2235 2400 2400 780 1660 1910 2075 2210 THA418 16 3% 171/5 71/8 141/16 -16d 6-16d **THA422** 16 3% 22 141/16 22-16d 6-16d 18, F7 7% THA426 6-16d 14 3% 26 71/8 161/16 30-16d F23 2211/16 THA422-2 14 | 71/4 9¾ 163/16 30-16d 6-16d L1 THA426-2 14 71/4 261/16 9¾ 18 38-16d 6-16d 170

- 1. Uplift has been increased 60% for wind or earthquake loading with no
- further increase allowed; reduce where other loads govern.

 2. Wind (160) is a download rating.

 3. For single 4x2 top chord carrying members or single 2x nailers, the following THA hangers can be installed using 10dx1½" top nails and 2-16d face nails with reduced allowable loads as noted: 1415 lbs. for THA418 and THA422, 2255 lbs. for THA426, and 2345 lbs. for THA422-2 and THA426-2. Loads are based on hanger installations at panel points 4. Face mount installation loads are based on minimum of 2-ply 2x carrying
- member. For single 2x carrying members, use 10dx11/2" nails into the
- carrying member and tabulated fasteners into the carried member, and use 0.80 of the
- table value for 18 gauge, and 0.68 of the table value for 16 gauge and 14 gauge.

 5. Min. Top Flange refers to the minimum length of strap that must be field formed over
- 6. For the THA2X models, one strap may be installed vertically according to the face mount nailing requirements and the other strap wrapped over the top chord according to the top flange nailing requirements (see drawing above) and achieve full tabulated top flange installation
- downloads. The THA29 allowable uplift for this application is 575 lbs.

 7. NAILS: 16d = 0.162" dia. x 3½" long, 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.