AC1102



# HTU Face Mount Truss Hangers

The HTU face mount truss hangers have nail patterns designed specifically for shallow heel heights, so that full allowable loads *(with minimum nailing)* apply to heel heights as low as 3⅞". Minimum and maximum nailing options provide solutions for varying heel heights and end conditions.

Alternate allowable loads are provided for gaps between the end of the truss and the carrying member up to ½" max. to allow for greater construction tolerances *(maximum gap for standard allowable loads is ⅛" per ASTM D1761 and D7147)*.

**MATERIAL:** 16 gauge

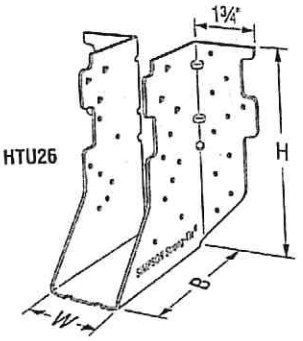
**FINISH:** Galvanized

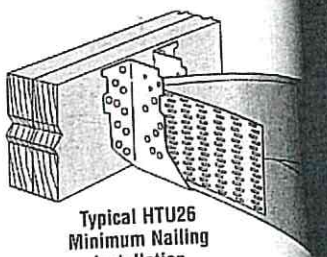
**INSTALLATION:**

- Use all specified fasteners. See General Notes.
- Can be installed filling round holes only, or filling round and triangle holes for maximum values.
- See alternate installation for applications using the HTU26 on a 2x4 carrying member or HTU28 or HTU210 on a 2x6 carrying member for additional uplift capacity.

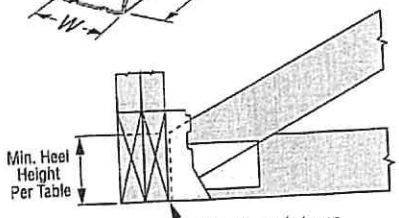
**OPTIONS:** • See Hanger Options on pages 216-217 for skew options.

**CODES:** See page 13 for Code Reference Key Chart.

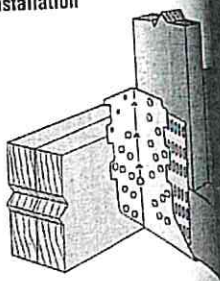


Typical HTU26 Minimum Nailing Installation




HTU Installation for Standard Allowable Loads
*(For ½" maximum gap, use Alternate Allowable Loads.)*



Alternate Installation HTU28 installed on 2x6 carrying member *(HTU210 similar)*

## Standard Allowable Loads (⅛" Maximum Hanger Gap)

| Model No. | Min. Heel Height | Dimensions W | H | B | Fasteners Carrying Member | Carried Member | DF/SP Allowable Loads Uplift (160) | Floor (100) | Snow (115) | Roof (125) | Wind (160) | SPF/HF Allowable Loads Uplift (160) | Floor (100) | Snow (115) | Roof (125) | Wind (160) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SINGLE 2x SIZES** | | | | | | | | | | | | | | | | |
| HTU26 | 3½ | 1⅝ | 5⅞₁₆ | 3½ | 20-16d | 11-10dx1½ | 730 | 2940 | 3045 | 3045 | 3045 | 630 | 1920 | 1920 | 1920 | 1920 |
| HTU26 (Min) | 3⅜ | 1⅝ | 5⅞₁₆ | 3½ | 20-16d | 14-10dx1½ | 1250 | 2940 | 3200 | 3200 | 3200 | 1075 | 2015 | 2015 | 2015 | 2015 |
| HTU26 (Max) | 5½ | 1⅝ | 5⅞₁₆ | 3½ | 20-16d | 20-10dx1½ | 1555 | 2940 | 3340 | 3600 | 4010 | 1335 | 2530 | 2870 | 3095 | 3450 |
| HTU28 (Min) | 3⅜ | 1⅝ | 7⅛₁₆ | 3½ | 26-16d | 14-10dx1½ | 1235 | 3820 | 3895 | 3895 | 3895 | 1060 | 2920 | 2920 | 2920 | 2920 |
| HTU28 (Max) | 7¼ | 1⅝ | 7⅛₁₆ | 3½ | 26-16d | 26-10dx1½ | 2140 | 3820 | 4340 | 4680 | 5435 | 1840 | 3285 | 3730 | 4025 | 4675 |
| HTU210 (Min) | 3⅜ | 1⅝ | 9⅛₁₆ | 3½ | 32-16d | 14-10dx1½ | 1330 | 4355 | 4355 | 4355 | 4355 | 1145 | 3265 | 3265 | 3265 | 3265 |
| HTU210 (Max) | 9¼ | 1⅝ | 9⅛₁₆ | 3½ | 32-16d | 32-10dx1½ | 3315 | 4705 | 5345 | 5760 | 5995 | 2850 | 4045 | 4595 | 4955 | 5155 |
| **DOUBLE 2x SIZES** | | | | | | | | | | | | | | | | |
| HTU26-2 (Min) | 3⅜ | 3⅛₁₆ | 5⅞₁₆ | 3½ | 20-16d | 14-10d | 1515 | 2940 | 3340 | 3600 | 3910 | 1305 | 2465 | 2465 | 2465 | 2465 |
| HTU26-2 (Max) | 5½ | 3⅛₁₆ | 5⅞₁₆ | 3½ | 20-16d | 20-10d | 2175 | 2940 | 3340 | 3600 | 4485 | 1870 | 2530 | 2870 | 3095 | 3855 |
| HTU28-2 (Min) | 3⅜ | 3⅛₁₆ | 7⅛₁₆ | 3½ | 26-16d | 14-10d | 1530 | 3820 | 4310 | 4310 | 4310 | 1315 | 3235 | 3235 | 3235 | 3235 |
| HTU28-2 (Max) | 7¼ | 3⅛₁₆ | 7⅛₁₆ | 3½ | 26-16d | 26-10d | 3485 | 3820 | 4340 | 4680 | 5850 | 2995 | 3285 | 3730 | 4025 | 5030 |
| HTU210-2 (Min) | 3⅜ | 3⅛₁₆ | 9⅛₁₆ | 3½ | 32-16d | 14-10d | 1755 | 4705 | 4815 | 4815 | 4815 | 1510 | 3610 | 3610 | 3610 | 3610 |
| HTU210-2 (Max) | 9¼ | 3⅛₁₆ | 9⅛₁₆ | 3½ | 32-16d | 32-10d | 4110 | 4705 | 5345 | 5760 | 7200 | 3535 | 4045 | 4595 | 4955 | 6190 |

1. The maximum hanger gap is measured between the joist *(or truss)* end and the carrying member.
2. Minimum heel heights required for full table loads are based on a minimum 2/12 pitch.
3. Uplift has been increased for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
4. Wind (160) is a download rating.
5. For hanger gaps between ⅛" and ½" use the Alternate Allowable Loads.
6. Truss chord cross-grain tension may limit allowable loads in accordance with ANSI/TPI 1-2007. Simpson Strong-Tie Connector Selector™ Software includes the evaluation of cross-grain tension in its hanger allowable loads. For additional information, contact Simpson Strong-Tie.
7. Loads shown are based on a minimum 2-ply 2x carrying member. For single 2x carrying members, use N10 (10dx1½") nails into the header and reduce the allowable download to 0.70 of the table value. The allowable uplift is 100% of the table load.
8. **NAILS:** 16d = 0.162" dia. x 3½" long, 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 22-23 for other nail sizes and information.

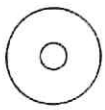
## Alternate Installation Table for 2x4 and 2x6 Carrying Member

| Model No. | Min. Heel Height (in.) | Minimum Carrying Member | Fasteners Carrying Member | Carried Member | DF/SP Allowable Loads Uplift (160) | Floor (100) | Snow (115) | Roof (125) | Wind (160) | SPF/HF Allowable Loads Uplift (160) | Floor (100) | Snow (115) | Roof (125) | Wind (160) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HTU26 (Min) | 3⅜ | 2-2x4 | 10-16d | 14-10dx1½ | 925 | 1470 | 1670 | 1800 | 2040 | 795 | 1265 | 1435 | 1550 | 1755 |
| HTU26 (Max) | 5½ | 2-2x4 | 10-16d | 20-10dx1½ | 1310 | 1470 | 1670 | 1800 | 2250 | 1125 | 1265 | 1435 | 1550 | 1935 |
| HTU28 (Max) | 7¼ | 2-2x6 | 20-16d | 26-10dx1½ | 1970 | 2940 | 3340 | 3600 | 3905 | 1695 | 2530 | 2870 | 3095 | 3360 |
| HTU210 (Max) | 9¼ | 2-2x6 | 20-16d | 32-10dx1½ | 2760 | 2940 | 3340 | 3600 | 3905 | 2375 | 2530 | 2870 | 3095 | 3360 |

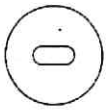
1. See table above for dimensions and additional footnotes.
2. Maximum hanger gap for the alternate installation is ½".
3. Wind (160) is a download rating.
4. **NAILS:** 16d = 0.162" dia. x 3½" long, 10dx1½ = 0.148" dia. x 1½" long. See page 22-23 for other nail sizes and information.

# FASTENING IDENTIFICATION

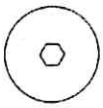




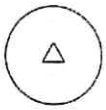
**Round Holes**
***Purpose:*** to fasten a connector.
***Fill Requirements:*** always fill, unless noted otherwise.



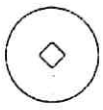
**Obround Holes**
***Purpose:*** to make fastening a connector in a tight location easier.
***Fill Requirements:*** always fill.



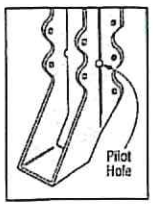
**Hexagonal Holes**
***Purpose:*** to fasten a connector to concrete or masonry.
***Fill Requirements:*** always fill when fastening a connector to concrete or masonry.



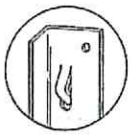
**Triangular Holes**
***Purpose:*** to increase a connector's strength or to achieve Max strength.
***Fill Requirements:*** when the Designer specifies Max nailing.



**Diamond Holes**
***Purpose:*** to temporarily fasten a connector to make installing it easier.
***Fill Requirements:*** none.

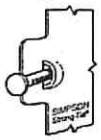



**Pilot Holes**
Tooling holes for manufacturing purposes. No fasteners required.

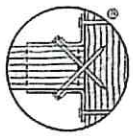


**Speed Prongs**
Used to temporarily position and secure the connector for easier and faster installation.

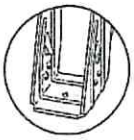
**Positive Angle Nailing (PAN)**
Provided when wood splitting may occur, and to speed installation.



**Dome Nailing**
This feature guides the nail into the joist and header at a 45° angle.
U.S. Patent 5,603,580



**Double-Shear Nailing**
The nail is installed into the joist and header, distributing the load through two points on each joist nail for greater strength.



**ITS Strong-Grip™**
*(IUS Similar)*
The Strong-Grip™ seat allows the I-joist to "snap" in securely without the need for joist nails.

# SIMPSON STRONG-TIE® NAILS

Simpson Strong-Tie nails and structural fasteners have been developed as the optimum fasteners for connector products. Special lengths afford economy of purchase and installation, and depth compatibility with framing members.

For pneumatic nail use, see Instructions to the Installer, page 17 and visit ***www.strongtie.com*** for technical bulletins.

### Retail Packaging


**1 lb. Retail Tub**


**5 lb. Retail Bucket**

Simpson Strong-Tie hot-dip galvanized nails are packed in 1 lb. and 5 lb. plastic retail containers for easy handling.

### Nails Sold by the Pound

| Nail | Simpson Model No. | Dimensions | Wire Gauge | Finish |
|---|---|---|---|---|
| 8dx1½" | N8 | 0.131" x 1½" (3.3mm x 38.1mm) | 10¼ | HDG |
| | SSN8 | | | SS |
| 8d Common | SS8D | 0.131" x 2½" (3.3mm x 63.5mm) | 10¼ | SS |
| 10dx1½" | N10 | 0.148" x 1½" (3.8mm x 38.1mm) | 9 | HDG |
| | SSN10 | | | SS |
| 10d Common | 10DHDG | 0.148" x 3" (3.8mm x 76.2mm) | 9 | HDG |
| | SS10D | | 9 | SS |
| 16dx2½" | N16 | 0.162" x 2½" (4.1mm x 63.5mm) | 8 | Bright |
| 16d Common | 16DHDG | 0.162" x 3½" (4.1mm x 88.9mm) | 8 | HDG |
| | SS16D | | | SS |
| N54A | N54A | 0.250" x 2½" (6.4mm x 63.5mm) | 3 | Bright |
| | N54AHDG | | | HDG |

1. HDG = hot-dip galvanized; SS = stainless steel; Bright = no finish.
2. For pneumatic fastener info, request additional technical information.
3. Recommended minimum end distance to prevent splitting with a steel side member is 10 x the nail diameter per 2005 NDS Commentary Table 11.1.5.6.
4. Use HDG nails with ZMAX® and HDG products.
5. 16d sinker with GV finish is not acceptable for ZMAX or HDG applications.
6. HDG nails sold by Simpson Strong-Tie meet the specifications of ASTM A153. Stainless-steel nails are type 316 stainless.

# 33° COLLATED STRUCTURAL CONNECTOR NAILS

The 33° collated structural-connector nail is designed to provide installers a pneumatically-driven alternative to hand-driven nails. The nail is approved for use in many popular Simpson Strong-Tie® products and serves as a replacement for 8d, 10d, and 16d hand-driven common nails in a variety of Simpson Strong-Tie connector applications. Available in 25-nail, paper-collated strips in both carbon steel and stainless steel.

**MATERIAL:** Heat-treated carbon steel **FINISH:** Hot-dip galvanized, stainless steel

**INSTALLATION:**
- Use all specified fasteners; see General Notes.
- Follow the manufacturer's instructions and use the appropriate safety equipment.
- Tools with nail hole-locating mechanisms should be used.
- Overdriving nails may reduce allowable loads.
- Compatible with a wide variety of popular pneumatic nailers. For more information, visit ***www.strongtie.com/SCN.***
- For applications involving pneumatic nails, refer to technical bulletin T-PNEUMATIC.

| Model No. | Nominal Size | Diameter (in.) | Length (in.) |
|---|---|---|---|
| **Hot-Dip Galvanized** | | | |
| NEW 8DHDGPT500 | 8d | 0.131 | 2½ |
| NEW N10HDGPT500 | 10d | 0.148 | 1½ |
| NEW N16HDGPT500 | 16d | 0.162 | 2½ |
| **Stainless Steel** | | | |
| NEW T9A150MCN | 10d | 0.148 | 1½ |
| NEW T9A250MCN | 10d | 0.148 | 2½ |


**T9A250MCN**
*(Other sizes similar)*