

THAI I-Joist & Structural Composite Lumber Hangers

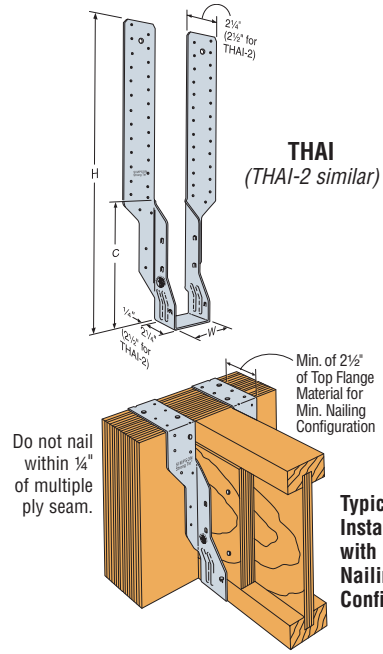
Designed for I-joists, the THAI has extra long straps and can be field-formed to give height adjustability and top flange hanger convenience. Positive angle nailing helps eliminate splitting of the I-joist's bottom flange.

MATERIAL: THAI-2—14 gauge; all others—18 gauge **FINISH:** Galvanized

INSTALLATION: • Factory-order the THAI-2 for hanger width needed. See table for allowable widths.

- Use all specified fasteners. Verify that the header can take the fasteners specified in the table.
- Web stiffeners are required for all I-joists used with these hangers.
- When a total of 20 face nails are used in THAI straps, or 30 face nails are used in THAI-2 straps, the maximum load-carrying capacity is achieved.
- Reduce load given by allowable nail shear capacity for each nail less than maximum.
- A minimum nailing configuration is shown for top nailing installations. The strap must be field-formed over the top of the header by a minimum of 2½".

CODES: See page 12 for Code Reference Key Chart.



1. The W dimension should be ordered at 1/16" to 1/8" greater than the joist width.

| Joist Dimensions | | Model No. | Hanger Dimensions | | | Code Ref. |
|------------------|----------|-------------|-------------------|-----|----|------------|
| Width | Depth | | W' | H | C | |
| 1½ | 9¼ - 14" | THAI222 | 1¾ | 22⅞ | 9⅞ | 18, L5, F7 |
| 1¾ | 9¼ - 14" | THAI1.81/22 | 1¾ | 22¾ | 9¼ | 18, L5 |
| 2 | 9¼ - 14" | THAI2.06/22 | 2¼ | 22⅝ | 9⅞ | 18, L5, F7 |
| 2⅛ | 9¼ - 14" | THAI2.1/22 | 2¼ | 22⅞ | 9⅞ | |
| 2¼ to 2⅝ | 9¼ - 14" | THAI3522 | 2¾ | 22½ | 9 | |
| 2½ | 9¼ - 14" | THAI322 | 2¾ | 22¾ | 8⅞ | |
| 3½ | 9¼ - 14" | THAI422 | 3¾ | 21⅞ | 8⅞ | |
| 3 to 5¼ | 9¼ - 14" | THAI-2 | 3⅞ to 5⅞ | 21⅞ | 8⅞ | |

| Nailing Options | Fasteners | | | Uplift (160) | Allowable Loads | | | | | | | | |
|-----------------|-----------|----------|----------|--------------|-----------------|------------|------------|--------------|------------|------------|---------------|------------|------------|
| | Top | Face | Joist | | LVL Header | | | DF/SP Header | | | SPF/HF Header | | |
| | | | | | Floor (100) | Snow (115) | Roof (125) | Floor (100) | Snow (115) | Roof (125) | Floor (100) | Snow (115) | Roof (125) |
| THAI Minimum | 4-10dx1½ | 2-10dx1½ | 2-10dx1½ | — | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1060 | 1060 | 1060 |
| | 4-10d | 2-10d | 2-10dx1½ | — | 1715 | 1715 | 1715 | 1835 | 1835 | 1835 | 1590 | 1590 | 1590 |
| THAI Maximum | — | 20-10d | 2-10dx1½ | 215 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 1920 | 2200 | 2200 |
| THAI-2 Minimum | 4-10d | 2-10d | 2-10dx1½ | — | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 |
| THAI-2 Maximum | — | 30-10d | 2-10dx1½ | 215 | 3390 | 3900 | 4135 | 3390 | 3900 | 4135 | 2940 | 3310 | 3310 |

- Uplift loads are based on DF/SP lumber and have been increased 60% for wind or earthquake loading with no further increase allowed. For normal loading applications such as cantilever construction refer to Simpson Strong-Tie Connector® Selector™ software or conservatively divide the uplift load by 1.6. For SPF/HF use 0.86 x DF/SP uplift load.
- Roof loads are 125% of floor loads unless limited by other criteria.

- The minimum header depth to achieve the maximum nail configuration is 16".
- For the THAI3522 supporting a 2¼" joist, the download shall be the lesser of the table load or 1400 lbs.
- NAILS:** 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information

LGU/MGU/HGU/HHGU High Capacity Girder Hangers

The GU hangers are a high-capacity girder hangers designed for situations where the header and joist are flush at top. This part can be used for retrofit on the framing members after they are temporarily placed in position. It uses Simpson Strong-Tie® Strong-Drive® screws (SDS) to make installation fast and easy, with no pre-drilling required.

MATERIAL: See table **FINISH:** Galvanized, HHGU—Simpson Strong-Tie® gray paint

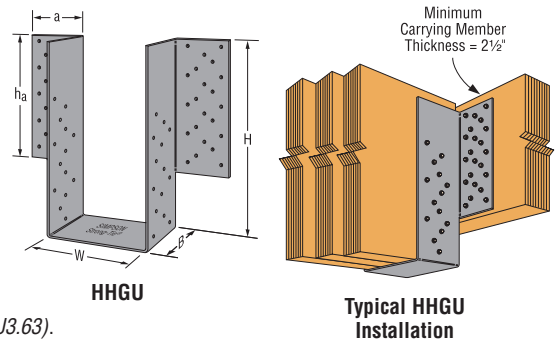
INSTALLATION: • Use all specified fasteners. See General Notes.

- Install with Simpson Strong-Tie SDS ¼"x2½" screws, which are provided with the GU's. (Note: lag screws will not achieve the same loads.)
- All multiple members must be fastened together to act as a single unit.
- Multiple member headers may require additional fasteners at the hanger locations. The quantity and location of the additional fasteners must be determined by the Designer.

OPTIONS: • Hot-dip galvanized available. Order as "X" version, specify HDG.

- Other seat widths available. Order as "X" version, specify width.
- See Hanger Options, pages 181-183, for one flange concealed option (all models except MGU3.63).

CODES: See page 12 for Code Reference Key Chart.



| Actual Carried Beam Width | Model No. | Ga | Dimensions | | | | | Fasteners | | Allowable Loads | | | | Code Ref. |
|---------------------------|--------------|----|------------|----------------------|----|-----------------|----|---------------|---------------|-----------------|----------------------|------------|----------------------|-----------|
| | | | W | H ² (min) | B | ha ³ | a | Face | Joist | DF/SP | | SPF/HF | | |
| | | | | | | | | | | Uplift 160 | Download 100/115/125 | Uplift 160 | Download 100/115/125 | |
| 3½ | LGU3.63-SDS | 10 | 3⅞ | 8 | 4½ | 7% | 3¼ | 16-SDS ¼"x2½" | 12-SDS ¼"x2½" | 5555 | 6720 | 4000 | 4840 | F23 |
| 3½ | MGU3.63-SDS | 10 | 3⅞ | 9¼ | 4½ | 8% | 4 | 24-SDS ¼"x2½" | 16-SDS ¼"x2½" | 7260 | 9450 | 5225 | 6805 | |
| 5¼ | MGU5.50-SDS | 10 | 5½ | 9¼ | 4½ | 8% | 4 | 24-SDS ¼"x2½" | 16-SDS ¼"x2½" | 7260 | 9450 | 5225 | 6805 | |
| 5¼ | HGU5.50-SDS | 7 | 5½ | 11 | 5¼ | 10% | 4¾ | 36-SDS ¼"x2½" | 24-SDS ¼"x2½" | 9895 | 14145 | 7125 | 10185 | |
| 5¼ | HHGU5.50-SDS | 3 | 5½ | 13 | 5¼ | 12% | 4¾ | 44-SDS ¼"x2½" | 28-SDS ¼"x2½" | 14550 | 17845 | 10475 | 12850 | |
| 7 | HGU7.25-SDS | 7 | 7¼ | 11 | 5¼ | 10% | 4¾ | 36-SDS ¼"x2½" | 24-SDS ¼"x2½" | 9895 | 14145 | 7125 | 10185 | |
| 7 | HHGU7.25-SDS | 3 | 7¼ | 13 | 5¼ | 12% | 4¾ | 44-SDS ¼"x2½" | 28-SDS ¼"x2½" | 14550 | 17845 | 10475 | 12850 | |

- Uplift loads have been increased for earthquake and wind loading, with no further increase allowed.
- Specify H dimension. Maximum H = 30".
- Header height must be at least as tall as flange height (ha).