

Hangar Selector Guide

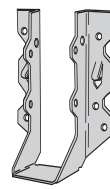
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| Hanger Type | USP Series | Steel Gauge | Style | | | | | Supported / Joist Member | | | | Supporting / Header Member | | | | | 100% Allowable Loads (Lbs.) Range | |
|------------------|------------|-----------------------------------|------------|-----------|-----------------|--------|--------|--------------------------|-----|-------|--------|----------------------------|-----|-------|---------------|---------------|-----------------------------------|---------|
| | | | Face Mount | Top Mount | Sloped / Skewed | Formed | Welded | Dimensional Wood | EWP | Truss | Glulam | Dimensional Wood | EWP | Truss | Glulam | Masonry | Header Material | |
| | | | | | | | | | | | | | | | | | DF-L / SP | Masonry |
| Face Mount | JL | 20 | * | | | * | | * | | | * | | * | | | 455 - 1,905 | --- | |
| | JLIF-TZ | 18 | * | | | * | | * | | | * | | * | | | 465 - 1,520 | --- | |
| | SUH | 16 | * | | | * | | * | | | * | | * | | | 465 - 2,210 | --- | |
| | JUS | 18 | * | | | * | | * | | | * | | * | | | 655 - 2,345 | --- | |
| | HUS | 16 | * | | | * | | * | | | * | | * | | | 2,635 - 5,310 | --- | |
| | | 14 | * | | | * | | * | | | * | | * | | | 800 - 2,580 | --- | |
| | HD | 14 | * | | | * | | * | * | * | * | * | * | | | 565 - 3,950 | --- | |
| | HDO | 14 | * | | | * | | * | * | * | * | * | * | | | 3,010 - 5,265 | --- | |
| J | 14 | * | | | * | | * | | | | | | | | 1,420 - 2,840 | --- | | |
| Top Mount | KLB | 14 | | * | * | | * | | * | | * | | | | | 1,365 | --- | |
| | KB | 12 | | * | * | | * | | * | | * | | | | | 2,420 - 3,495 | --- | |
| | KHB | 12 | | * | * | | * | | * | | * | | | | | 4,265 | --- | |
| | KHHB | 7 | | * | * | | * | | * | | * | | | | | 4,260 - 5,275 | --- | |
| | HDO | 12 | | * | * | | * | | * | * | * | | * | | | 2,170 - 5,475 | --- | |
| | HHDO | 12 | | * | * | | * | | * | * | * | | * | | | 3,705 - 6,155 | --- | |
| | SW | 12 | | * | * | | * | | * | * | * | | * | | | 2,315 - 2,520 | --- | |
| | SWH | 7 - Top Flange 12 - Stirrup | | | * | | * | | * | | * | * | | * | | | 3,305 | --- |
| | | 3 - Top Flange 10 - Stirrup | | | * | | * | | * | | * | * | | * | | | 5,295 - 5,335 | --- |
| | HL | 18 | | * | * | | * | | * | | * | | * | | | 1,270 - 1,590 | --- | |
| JH | 18 | | * | * | | * | | * | * | * | | * | | | 1,900 - 2,855 | --- | | |
| Slope and Skew | LS | 18 | * | | * | * | | * | | * | | * | | | | 960 - 1,235 | --- | |
| | SKH | 16 | * | | * | * | | * | * | * | | * | * | * | | 510 - 2,210 | --- | |
| | | 14 | * | | * | * | | * | * | * | | * | * | * | | 1,410 - 3,950 | --- | |
| SKHH | 14 | * | | * | * | | * | * | * | | * | * | * | | 1,510 - 3,640 | --- | | |
| Panel and Purlin | KF | 18 | | * | * | | * | | * | | * | | * | | | 595 - 810 | --- | |
| | PHG | 18 | | * | * | | * | | * | | * | | * | | | 580 - 650 | --- | |
| | FH | 18 | | * | * | | * | | * | | * | | * | | | 960 - 1,235 | --- | |
| | FHD | 18 | | * | * | | * | | * | | * | | * | | | 960 - 1,235 | --- | |
| | JDS | 18 | | * | * | | * | | * | | * | | * | | | 480 - 1,575 | --- | |
| | JPF | 20 | | * | * | | * | | * | | * | | * | | | 1,070 - 1,275 | --- | |
| Masonry | HWUH | 1/4" - Top Flange, 7 - Stirrup | | * | | * | | * | * | * | | * | * | * | | --- | 2,265 - 5,165 | |
| | MPH | 12 | | * | | * | | * | * | * | | * | * | * | | --- | 2,585 - 4,280 | |
| | UHM | 1/4" | | * | | * | | * | * | * | | * | * | * | | --- | 5,200 | |
| | NFM | 3/8" - Top Flange, 7 - Stirrup | | * | | * | | * | * | * | | * | * | * | | --- | 7,130 - 10,310 | |

* Represents common applications and product configurations. Consult USP for additional applications and/or optional product configurations.

FACE MOUNT JOIST HANGERS PAGES 88-97

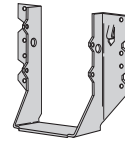
- **JL Series**
Light-capacity 20 gauge 2x joist hanger.
- **JLIF-TZ Series**
Medium-capacity inverted flange 18 gauge joist hanger.
- **SUH Series**
Medium-capacity 16 gauge joist hanger.
- **JUS Series**
Medium-capacity 18 gauge joist hanger with slant nailing.
- **HUS Series**
Heavy-capacity 14 or 16 gauge joist hanger with slant nailing.
- **HD Series**
Heavy-capacity 14 gauge inverted flange joist hanger.
- **HDQ Series**
Heavy-capacity 14 gauge inverted flange joist hanger.
- **J Series**
Heavy-capacity 14 gauge ornamental joist hanger with primer coating.



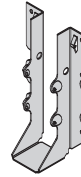
JL



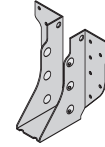
JLIF-TZ



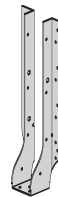
SUH



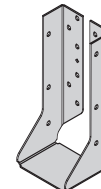
JUS



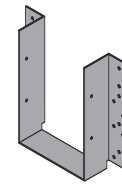
HUS



HD



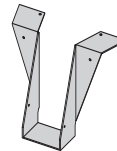
HDQ



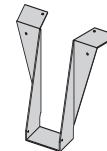
JT

TOP MOUNT HANGERS PAGES 97-103

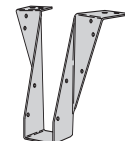
- **KLB Series**
Light-capacity 14 gauge top mount hanger with uplift capacity.
- **KB Series**
Medium-capacity 12 gauge top mount hanger with uplift capacity.
- **KHB Series**
Medium-to-heavy-capacity 12 gauge top mount hanger with uplift capacity.
- **KHHB Series**
Heavy-capacity 7 gauge top mount hanger with uplift capacity.
- **HDO Series**
Medium-capacity 12 gauge top mount hanger with uplift capacity.
- **SW Series**
Light-capacity welded hanger with primer finish.
- **SWH Series**
Medium-capacity welded hanger with primer finish.
- **KHW Series**
Heavy-capacity welded hanger with primer finish.
- **HL Series**
Light-capacity 18 gauge 2x top mount hanger.
- **JH Series**
Medium-capacity strap style hanger.



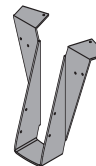
KLB



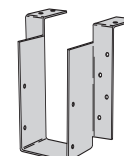
KB



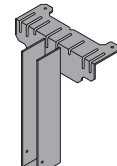
KHB



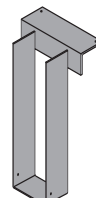
KHHB



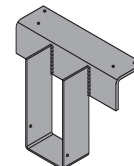
HDO



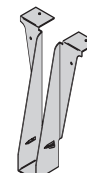
SW



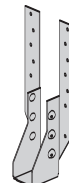
SWH



KHW



HL

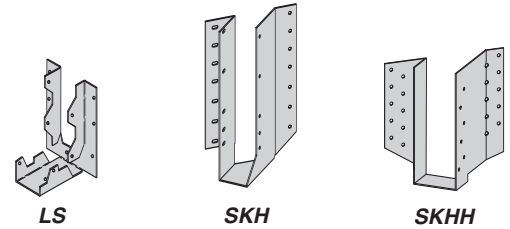


JH

continued on next page

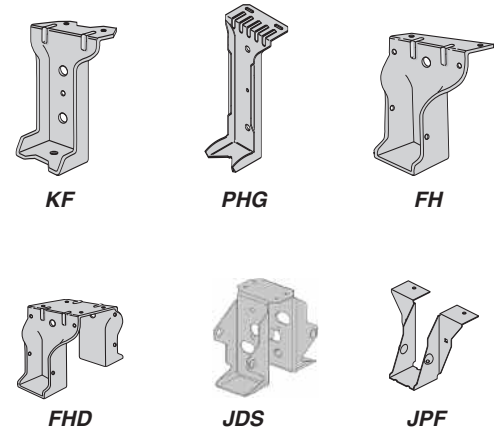
SLOPE & SKEW HANGERS PAGES 103-105

- **LS Series**
Light-capacity hanger for slopes of 0° to 30° down.
- **SKH Series**
Light-capacity 45° skewed hanger.
- **SKHH Series**
Medium-capacity 45° skewed hanger.



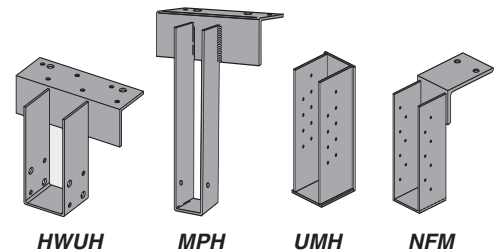
PANEL & PURLIN HANGERS PAGES 106-107

- **KF Series**
Panel hanger with a joist end nail.
- **PHG Series**
Panel hanger that uses a gripper instead of a nail.
- **FH Series**
Medium-capacity purlin hanger.
- **FHD Series**
Medium-capacity purlin saddle hanger.
- **JDS Series**
Medium-capacity purlin saddle hanger.
- **JPF Series**
Medium-capacity purlin hanger with double shear nailing.



MASONRY HANGERS PAGES 108-112

- **HWH Series**
Heavy-capacity top flange masonry hanger.
- **MPH Series**
Top flange masonry hanger.
- **UMH Series**
Face mount masonry hanger.
- **NFM Series**
Narrow flange hanger for headers connecting to the end of a masonry wall.



USP offers a wide variety of light-gauge face mount joist hangers to accommodate application and installation preferences.

JL series – 20 gauge, 2x joist hangers.

JL-IF series – 18 gauge, 2x joist hangers.

SUH series – 16 gauge steel construction for more demanding applications and light truss support.

Materials: See chart

Finish: G90 galvanizing

Options: See SUH Specialty Options Chart.

Codes: ESR-1781, ESR-1280 L.A. City RR 25749 ,
FL816, FL571, FL11664, Dade County, FL 07.0214.20

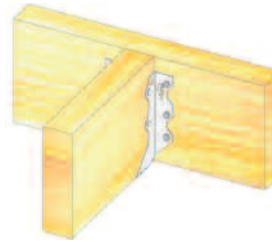
Installation:

- Use all specified fasteners. See Product Notes, page 10.
- Speed prongs are designed to temporarily position hangers on headers for more convenient nail fastening, but specified nails must be used to achieve allowable loads.

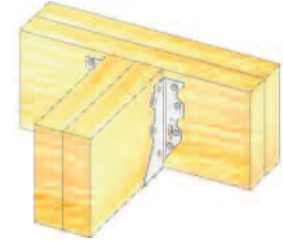
SUH Specialty Options Chart – refer to Specialty Options pages 201, 203 to 204 for additional details.

| Option ⁴ | Skewed ^{1,3} | Sloped Seat ^{2,3} | Sloped / Skewed ^{1,2,3} |
|---------------------|---|---|--|
| Range | 1' to 67'-1/2' when width is 1-3/4" or less. 1' to 50' on all others. | 1' to 45' | See Sloped Seat and Skewed |
| Allowable Loads | 100% of table load. 75% of uplift load on skews greater than 15'. | 100% of table load | 80% of table load. 75% of uplift load on skews greater than 15'. |
| Ordering | Add SK angle required, and right (R) or left (L), to product number. Ex. SUH210-SK45R | Add SL, slope required, and up (U) or down (D), to product number. Ex. SUH210-SL30D | See Sloped Seat and Skewed. Ex. SUH210-SK45RSL30D |

- 1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
- 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
- 3) All sloped, skewed, or combinations require bevel cut on joist in all applications and web stiffeners with I-Joists.
- 4) Some SUH option hangers may be manufactured as welded products to achieve listed loads.



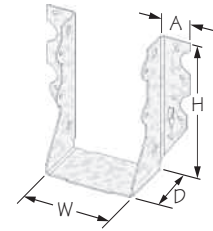
Typical JL26 installation



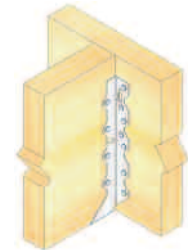
Typical SUH26-2 installation



JL26



SUH26-2



Typical JL-IF installation



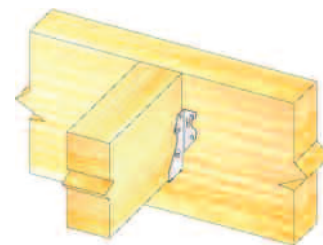
JL-IF

The HUS & JUS hanger series offers double shear nailing. USP's dimple allows for 30° to 45° nailing through the joist into the header resulting in higher loads and less nailing. Slant nailing also eliminates the need for shorter joist nails in 2x applications.

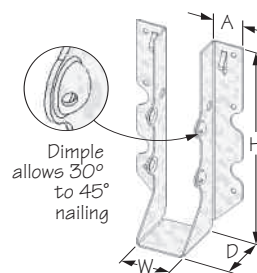
- Materials:** JUS - 18 gauge; HUS - 14 or 16 gauge
- Finish:** G90 galvanizing; JUS24-GC, JUS26-GC, JUS210-GC, JUS26-2GC, & JUS210-2GC – Gold Coat
- Options:** HUS28-2IF, HUS210-2IF, JUS24, JUS26, JUS26-2, JUS28, JUS28-2, JUS210, JUS210-2, JUS44, JUS46, JUS28-3, & JUS210-3 are available in Triple Zinc. To order, add TZ to stock number, as in **JUS24-TZ**. JUS24, JUS26, JUS26-2, JUS28, JUS210, and JUS210-2 are available in Stainless Steel. To order, add SS to stock number, as in **JUS26-SS**. See HUS Specialty Options Chart.
- Codes:** ESR-1881, FL9835, FL570, FL821, Dade County, FL 07-0419.01, Dade County, FL 07-0214.20 & Dade County, FL 06-0921.05

Installation:

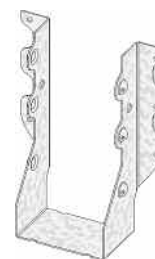
- Use all specified fasteners. See Product Notes, page 10.
- Joist nails must be driven at a 30° to 45° angle through the joist or truss into the header to achieve listed loads. **Standard length “double shear” nails must be used to achieve listed load values.**
- JUS - 16d sinkers (9 gauge x 3 1/4”) may be used where 10d commons are specified with no load reduction.



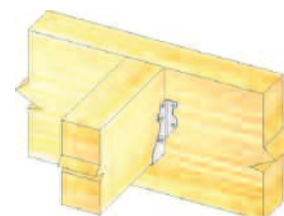
Typical JUS46 installation



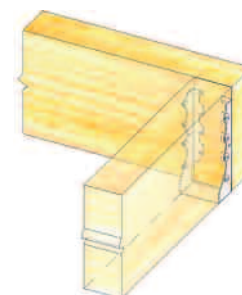
JUS28



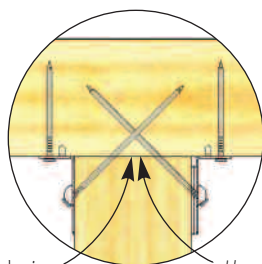
HUS28-2



Typical HUS46 installation



Typical HUS410IF inverted flange installation



Double shear nail design features fewer nails and faster installation

Uses standard length nails

AVAILABLE IN
**GOLD
COAT**

HUS Specialty Options Chart – refer to Specialty Options pages 201 to 202 for additional details.

| Option | Inverted Flange |
|-----------------|---|
| Range | Not available in widths less than 2-1/4”. |
| Allowable Loads | 100% of table load. 65% of table load when nailing into the support members end grain. |
| Ordering | Add IF to product number. Ex. HUS410IF |

HD hangers are heavy-duty face mount hangers that can be used to support headers, joists, and trusses.

Materials: 14 gauge

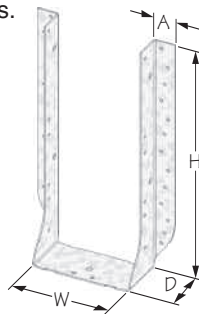
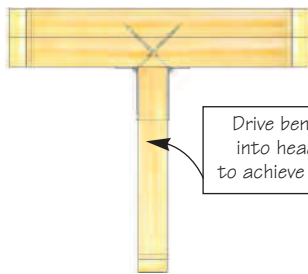
Finish: G90 galvanizing

Options: All nominal lumber sizes are available for rough/full size lumber. See Specialty Options Chart.

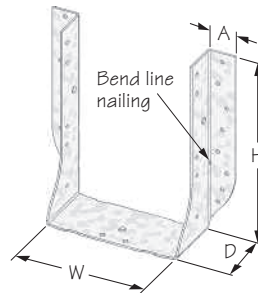
Codes: ESR-1781, FL815

Installation:

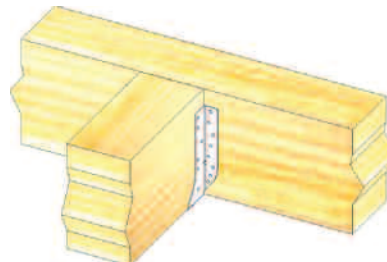
- Use all specified fasteners. See Product Notes, page 10.
- Some HD models feature nail holes along bend line that must be filled to achieve allowable loads. Verify proper header width to accomplish this for inverted models.



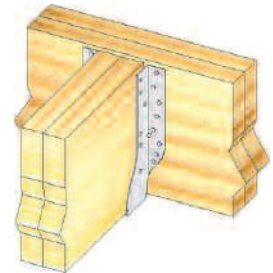
HD51135



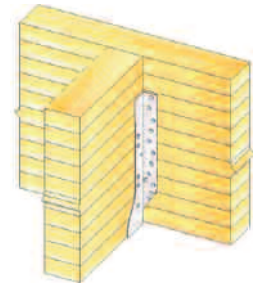
HD610



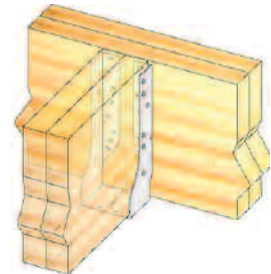
Typical HD610 installation



Typical HD210-2 installation



Typical HD3212 glulam installation



Typical HD210-2IF inverted flange installation

Specialty Options Chart – refer to Specialty Options pages 201 to 202 for additional details.

| Option ⁴ | Skewed ^{1,3} | Sloped Seat ^{2,3} | Sloped / Skewed ^{1,2,3} | Inverted Flange |
|---------------------|--|---|---|---|
| Range | 1' to 67-1/2' when width is 1-3/4" or less. 1' to 50' on all others. | 1' to 45' | See Sloped Seat and Skewed | Not available in widths less than 2-1/4" |
| Allowable Loads | 100% of table load. 75% of uplift load on skews greater than 15'. | 100% of table load | 80% of table load. 75% of uplift load on skews greater than 15'. | 100% of table load. 65% of table load when nailing into the support members end grain. |
| Ordering | Add SK, angle required, and right (R) or left (L), to product number. Ex. HD410-SK45R | Add SL, slope required, and up (U) or down (D), to product number. Ex. HD410-SL30D | See Sloped Seat and Skewed. Ex. HD410-SK45RSL30D | Add IF to product number. Ex. HD410IF |

1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
 3) All sloped, skewed, or combinations require bevel cut on joist in all applications and web stiffeners with I-joists.
 4) Modifications of HD hangers may be manufactured as hot rolled, welded, or primed.

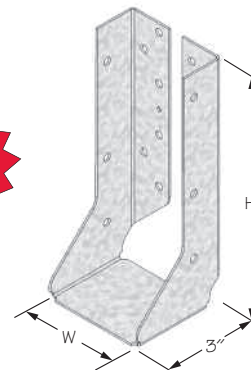
INVERTED FLANGE HANGERS – HDQ SERIES

HDQ inverted flange hangers install with wood screws eliminating the need to drill bolt holes simplifying installation.

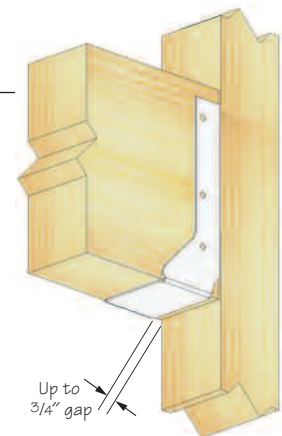
Materials: 14 gauge
Finish: G90 galvanizing

Installation:

- Use all specified fasteners. See Product Notes, page 10.
- WS15 and WS3 Wood Screws are supplied with HDQ hangers.



HDQ-IF



Typical HDQ-IF installation

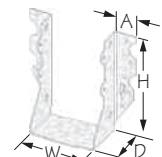
FACE MOUNT HANGER CHARTS



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| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule ^{2,3,4,6,7} | | | | Allowable Loads (Lbs.) | | | | Code Ref. | |
|------------|---------------|----------|-------------|------------|--------|---------|--------|--|------|---------|-------------|------------------------|------|------|---------------------|-----------|---------|
| | | | | W | H | D | A | Header | | Joist | | DF-L / SP | | | | | |
| | | | | | | | | Qty | Nail | Qty | Nail | Floor | Roof | | Uplift ¹ | | |
| 100% | 115% | 125% | 160% | | | | | | | | | | | | | | |
| 2 x 4 | JL24 | LU24 | 20 | 1-9/16 | 3 | 1-1/2 | 15/16 | 4 | 10d | 2 | 10d x 1-1/2 | 455 | 525 | 570 | 245 | 5, F6, | |
| | | LU24-18 | 20 | 1-9/16 | 3 | 1-1/2 | 15/16 | 4 | 16d | 2 | 10d x 1-1/2 | 545 | 625 | 680 | 245 | F11, D3 | |
| | JL24IF-TZ | --- | 18 | 1-9/16 | 3-1/8 | 1-1/2 | --- | 4 | 10d | 2 | 10d x 1-1/2 | 465 | 480 | 480 | 305 | 130 | |
| | | --- | 18 | 1-9/16 | 3-1/8 | 1-1/2 | --- | 4 | 16d | 2 | 10d x 1-1/2 | 480 | 480 | 480 | 305 | | |
| | JUS24 | LUS24 | --- | 18 | 1-9/16 | 3-1/8 | 1-3/4 | 1 | 4 | 10d | 2 | 10d | 655 | 750 | 820 | 510 | 6, F6, |
| | | | --- | 18 | 1-9/16 | 3-1/8 | 1-3/4 | 1 | 4 | N10C-GC | 2 | N10C-GC | 655 | 750 | 820 | 510 | F15, D3 |
| | SUH24 | U24 | --- | 16 | 1-9/16 | 3-1/4 | 2 | 1-3/16 | 4 | 10d | 2 | 10d x 1-1/2 | 465 | 535 | 580 | 360 | 2, F20, |
| --- | | | 16 | 1-9/16 | 3-1/4 | 2 | 1-3/16 | 4 | 16d | 2 | 10d x 1-1/2 | 550 | 635 | 690 | 360 | R12 | |
| HD26 | HU26 | --- | 14 | 1-9/16 | 3-1/2 | 2 | 1-1/8 | 4 | 16d | 2 | 10d x 1-1/2 | 565 | 650 | 705 | 290 | 5, F10 | |
| 2 x 6 | JL26 | LU26 | 20 | 1-9/16 | 4-3/4 | 1-1/2 | 15/16 | 6 | 10d | 4 | 10d x 1-1/2 | 685 | 785 | 855 | 485 | 5, F6, | |
| | | LU26-18 | 20 | 1-9/16 | 4-3/4 | 1-1/2 | 15/16 | 6 | 16d | 4 | 10d x 1-1/2 | 815 | 940 | 1020 | 485 | F11, D3 | |
| | JL26IF-TZ | LUC26Z | --- | 18 | 1-9/16 | 4-1/2 | 1-1/2 | --- | 6 | 10d | 4 | 10d x 1-1/2 | 695 | 800 | 870 | 730 | 130 |
| | | | --- | 18 | 1-9/16 | 4-1/2 | 1-1/2 | --- | 6 | 16d | 4 | 10d x 1-1/2 | 830 | 950 | 1035 | 730 | |
| | JUS26 | LUS26 | --- | 18 | 1-9/16 | 4-13/16 | 1-3/4 | 1 | 4 | 10d | 4 | 10d | 850 | 975 | 1060 | 1115 | 6, F6, |
| | | | --- | 18 | 1-9/16 | 4-13/16 | 1-3/4 | 1 | 4 | N10C-GC | 4 | N10C-GC | 850 | 975 | 1060 | 1115 | F15, D3 |
| | SUH26 | U26 | --- | 16 | 1-9/16 | 5-1/8 | 2 | 1-3/16 | 6 | 10d | 4 | 10d x 1-1/2 | 695 | 800 | 870 | 725 | 2, F20, |
| | | | --- | 16 | 1-9/16 | 5-1/8 | 2 | 1-3/16 | 6 | 16d | 4 | 10d x 1-1/2 | 830 | 950 | 1035 | 725 | R12 |
| | HUS26 | HUS26 | --- | 16 | 1-5/8 | 5-7/16 | 3 | 2 | 14 | 16d | 6 | 16d | 2635 | 3030 | 3030 | 1925 | 6, F18, |
| | HD26 | HU26 | --- | 14 | 1-9/16 | 3-1/2 | 2 | 1-1/8 | 4 | 16d | 2 | 10d x 1-1/2 | 565 | 650 | 705 | 290 | 5, F10 |
| HD28 | HU28 | --- | 14 | 1-9/16 | 5-1/4 | 2 | 1-1/8 | 8 | 16d | 4 | 10d x 1-1/2 | 1130 | 1295 | 1410 | 730 | 5, F10 | |
| 2 x 8 | JL26 | LU26 | 20 | 1-9/16 | 4-3/4 | 1-1/2 | 15/16 | 6 | 10d | 4 | 10d x 1-1/2 | 685 | 785 | 855 | 485 | 5, F6, | |
| | | LU26-18 | 20 | 1-9/16 | 4-3/4 | 1-1/2 | 15/16 | 6 | 16d | 4 | 10d x 1-1/2 | 815 | 940 | 1020 | 485 | F11, D3 | |
| | JL26IF-TZ | LUC26Z | --- | 18 | 1-9/16 | 4-1/2 | 1-1/2 | --- | 6 | 10d | 4 | 10d x 1-1/2 | 695 | 800 | 870 | 730 | 130 |
| | | | --- | 18 | 1-9/16 | 4-1/2 | 1-1/2 | --- | 6 | 16d | 4 | 10d x 1-1/2 | 830 | 950 | 1035 | 730 | |
| | JL28 | LU28 | --- | 20 | 1-9/16 | 6-3/8 | 1-1/2 | 15/16 | 10 | 10d | 6 | 10d x 1-1/2 | 1140 | 1295 | 1295 | 885 | 5, F6, |
| | | | --- | 20 | 1-9/16 | 6-3/8 | 1-1/2 | 15/16 | 10 | 16d | 6 | 10d x 1-1/2 | 1360 | 1565 | 1700 | 885 | F11, D3 |
| | JL28IF-TZ | LUC28Z | --- | 18 | 1-9/16 | 6-1/8 | 1-1/2 | --- | 8 | 10d | 4 | 10d x 1-1/2 | 930 | 1065 | 1160 | 730 | 130 |
| | | | --- | 18 | 1-9/16 | 6-1/8 | 1-1/2 | --- | 8 | 16d | 4 | 10d x 1-1/2 | 1105 | 1215 | 1215 | 730 | |
| | JUS26 | LUS26 | --- | 18 | 1-9/16 | 4-13/16 | 1-3/4 | 1 | 4 | 10d | 4 | 10d | 850 | 975 | 1060 | 1115 | 6, F6, |
| | JUS28 | LUS28 | --- | 18 | 1-9/16 | 6-5/8 | 1-3/4 | 1 | 6 | 10d | 4 | 10d | 1075 | 1235 | 1345 | 1115 | F15, D3 |
| | JUS28-GC | --- | --- | 18 | 1-9/16 | 6-5/8 | 1-3/4 | 1 | 6 | N10C-GC | 4 | N10C-GC | 1075 | 1235 | 1345 | 1115 | 6, F6, |
| | SUH26 | U26 | --- | 16 | 1-9/16 | 5-1/8 | 2 | 1-3/16 | 6 | 10d | 4 | 10d x 1-1/2 | 695 | 800 | 870 | 725 | 2, F20, |
| | | | --- | 16 | 1-9/16 | 5-1/8 | 2 | 1-3/16 | 6 | 16d | 4 | 10d x 1-1/2 | 830 | 950 | 1035 | 725 | |
| | SUH28 | --- | --- | 16 | 1-9/16 | 6-5/8 | 2 | 1-3/16 | 8 | 10d | 6 | 10d x 1-1/2 | 930 | 1065 | 1160 | 800 | 2, F20, |
| | | | --- | 16 | 1-9/16 | 6-5/8 | 2 | 1-3/16 | 8 | 16d | 6 | 10d x 1-1/2 | 1105 | 1270 | 1380 | 800 | |
| HUS26 | HUS26 | --- | 16 | 1-5/8 | 5-7/16 | 3 | 2 | 14 | 16d | 6 | 16d | 2635 | 3030 | 3030 | 1925 | 6, F18, | |
| HUS28 | HUS28 | --- | 16 | 1-5/8 | 7-3/16 | 3 | 2 | 22 | 16d | 8 | 16d | 3970 | 4345 | 4345 | 2570 | D2 | |
| HD28 | HU28 | --- | 14 | 1-9/16 | 5-1/4 | 2 | 1-1/8 | 8 | 16d | 4 | 10d x 1-1/2 | 1130 | 1295 | 1410 | 730 | 5, F10 | |
| HD210 | HU210 | --- | 14 | 1-9/16 | 7-3/16 | 2 | 1-1/8 | 12 | 16d | 4 | 10d x 1-1/2 | 1690 | 1945 | 2115 | 730 | 5, F10 | |
| 2 x 10 | JL28 | LU28 | 20 | 1-9/16 | 6-3/8 | 1-1/2 | 15/16 | 10 | 10d | 6 | 10d x 1-1/2 | 1140 | 1295 | 1295 | 885 | 5, F6, | |
| | | | 20 | 1-9/16 | 6-3/8 | 1-1/2 | 15/16 | 10 | 16d | 6 | 10d x 1-1/2 | 1360 | 1565 | 1700 | 885 | F11, D3 | |
| | JL28IF-TZ | LUC28Z | --- | 18 | 1-9/16 | 6-1/8 | 1-1/2 | --- | 8 | 10d | 4 | 10d x 1-1/2 | 930 | 1065 | 1160 | 730 | 130 |
| | | | --- | 18 | 1-9/16 | 6-1/8 | 1-1/2 | --- | 8 | 16d | 4 | 10d x 1-1/2 | 1105 | 1215 | 1215 | 730 | |
| | JL210 | LU210-18 | --- | 20 | 1-9/16 | 8-1/4 | 1-1/2 | 15/16 | 14 | 10d | 8 | 10d x 1-1/2 | 1595 | 1835 | 1875 | 1095 | 5, F6, |
| | | | --- | 20 | 1-9/16 | 8-1/4 | 1-1/2 | 15/16 | 14 | 16d | 8 | 10d x 1-1/2 | 1905 | 1965 | 1965 | 1095 | F11, D3 |
| | JL210IF-TZ | LUC210Z | --- | 18 | 1-9/16 | 8-7/32 | 1-1/2 | --- | 11 | 10d | 6 | 10d x 1-1/2 | 1275 | 1465 | 1595 | 1095 | 130 |
| | | | --- | 18 | 1-9/16 | 8-7/32 | 1-1/2 | --- | 11 | 16d | 6 | 10d x 1-1/2 | 1520 | 1745 | 1900 | 1095 | |
| | JUS28 | LUS28 | --- | 18 | 1-9/16 | 6-5/8 | 1-3/4 | 1 | 6 | 10d | 4 | 10d | 1075 | 1235 | 1345 | 1115 | 6, F6, |
| | JUS210 | LUS210 | --- | 18 | 1-9/16 | 7-3/4 | 1-3/4 | 1 | 8 | 10d | 4 | 10d | 1305 | 1500 | 1630 | 1115 | F15, D3 |
| | JUS210-GC | --- | --- | 18 | 1-9/16 | 7-3/4 | 1-3/4 | 1 | 8 | N10C-GC | 4 | N10C-GC | 1305 | 1500 | 1630 | 1115 | 6, F6, |
| | SUH28 | --- | --- | 16 | 1-9/16 | 6-5/8 | 2 | 1-3/16 | 8 | 10d | 6 | 10d x 1-1/2 | 930 | 1065 | 1160 | 800 | 2, F20, |
| | | | --- | 16 | 1-9/16 | 6-5/8 | 2 | 1-3/16 | 8 | 16d | 6 | 10d x 1-1/2 | 1105 | 1270 | 1380 | 800 | |
| | SUH210 | U210 | --- | 16 | 1-9/16 | 8 | 2 | 1-3/16 | 10 | 10d | 6 | 10d x 1-1/2 | 1160 | 1335 | 1450 | 1085 | 2, F20, |
| | | | --- | 16 | 1-9/16 | 8 | 2 | 1-3/16 | 10 | 16d | 6 | 10d x 1-1/2 | 1380 | 1585 | 1725 | 1085 | |
| HUS28 | HUS28 | --- | 16 | 1-5/8 | 7-3/16 | 3 | 2 | 22 | 16d | 8 | 16d | 3970 | 4345 | 4345 | 2570 | 6, F18, | |
| HUS210 | HUS210 | --- | 16 | 1-5/8 | 9-3/16 | 3 | 2 | 30 | 16d | 10 | 16d | 5310 | 5510 | 5510 | 3205 | D2 | |
| HD210 | HU210 | --- | 14 | 1-9/16 | 7-3/16 | 2 | 1-1/8 | 12 | 16d | 4 | 10d x 1-1/2 | 1690 | 1945 | 2115 | 730 | 5, F10 | |

- Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 - 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 - Minimum nail embedment shall be 1-1/2" for 10d and N10C-GC nails; 1-5/8" for 16d and N16C-GC nails.
 - 16d sinkers (9 gauge x 3-1/4" long) may be used at 0.84 of the table load where 16d commons are specified.
 - For JUS and HUS hangers: Nails must be driven at a 30° to 45° angle through the joist or truss into the header to achieve the table loads.
 - WS15 Wood Screws are 1-1/4" x 1-1/2" long and are included with HDQ hangers.
 - WS3 Wood Screws are 1-1/4" x 3" long and are included with HDQ hangers.
- New products or updated product information are designated in red.



continued on next page

| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule ^{2,3,4,6,7} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|------------|---------------|----------|-------------|------------|--------|-------|--------|--|---------|-------------|-------------|------------------------|------|------|---------------------|-----------------|
| | | | | W | H | D | A | Header | | Joist | | DF-L / SP | | | | |
| | | | | | | | | Qty | Nail | Qty | Nail | Floor | Roof | | Uplift ¹ | |
| 2 x 12 | JL210 | LU210 | 20 | 1-9/16 | 8-1/4 | 1-1/2 | 15/16 | 14 | 10d | 8 | 10d x 1-1/2 | 1595 | 1835 | 1875 | 1095 | 5, F6, F11, D3 |
| | | LU210-18 | 20 | 1-9/16 | 8-1/4 | 1-1/2 | 15/16 | 14 | 16d | 8 | 10d x 1-1/2 | 1905 | 1965 | 1965 | 1095 | |
| | JL210IF-TZ | LUC210Z | 18 | 1-9/16 | 8-7/32 | 1-1/2 | --- | 11 | 10d | 6 | 10d x 1-1/2 | 1275 | 1465 | 1595 | 1095 | 130 |
| | | | 18 | 1-9/16 | 8-7/32 | 1-1/2 | --- | 11 | 16d | 6 | 10d x 1-1/2 | 1520 | 1745 | 1900 | 1095 | |
| | JUS210 | LUS210 | 18 | 1-9/16 | 7-3/4 | 1-3/4 | 1 | 8 | 10d | 4 | 10d | 1305 | 1500 | 1630 | 1115 | 6, F6, F15, D3 |
| | JUS210-GC | --- | 18 | 1-9/16 | 7-3/4 | 1-3/4 | 1 | 8 | N10C-GC | 4 | N10C-GC | 1305 | 1500 | 1630 | 1115 | |
| | SUH210 | U210 | 16 | 1-9/16 | 8 | 2 | 1-3/16 | 10 | 10d | 6 | 10d x 1-1/2 | 1160 | 1335 | 1450 | 1085 | 2, F20, R12 |
| | | | 16 | 1-9/16 | 8 | 2 | 1-3/16 | 10 | 16d | 6 | 10d x 1-1/2 | 1380 | 1585 | 1725 | 1085 | |
| | HUS210 | HUS210 | 16 | 1-5/8 | 9-3/16 | 3 | 2 | 30 | 16d | 10 | 16d | 5310 | 5510 | 5510 | 3205 | 6, F18, D2 |
| | HD210 | HU210 | 14 | 1-9/16 | 7-3/16 | 2 | 1-1/8 | 12 | 16d | 4 | 10d x 1-1/2 | 1690 | 1945 | 2115 | 730 | 5, F10 |
| HD212 | HU212 | 14 | 1-9/16 | 9-1/4 | 2 | 1-1/8 | 16 | 16d | 6 | 10d x 1-1/2 | 2255 | 2595 | 2730 | 1065 | | |
| 2 x 14 | JL210 | LU210 | 20 | 1-9/16 | 8-1/4 | 1-1/2 | 15/16 | 14 | 10d | 8 | 10d x 1-1/2 | 1595 | 1835 | 1875 | 1095 | 5, F6, F11, D3 |
| | | LU210-18 | 20 | 1-9/16 | 8-1/4 | 1-1/2 | 15/16 | 14 | 16d | 8 | 10d x 1-1/2 | 1905 | 1965 | 1965 | 1095 | |
| | SUH210 | U210 | 16 | 1-9/16 | 8 | 2 | 1-3/16 | 10 | 10d | 6 | 10d x 1-1/2 | 1160 | 1335 | 1450 | 1085 | 2, F20, R12 |
| | | | 16 | 1-9/16 | 8 | 2 | 1-3/16 | 10 | 16d | 6 | 10d x 1-1/2 | 1380 | 1585 | 1725 | 1085 | |
| | SUH214 | U214 | 16 | 1-9/16 | 10 | 2 | 1-1/8 | 12 | 10d | 8 | 10d x 1-1/2 | 1390 | 1600 | 1740 | 1330 | |
| | | | 16 | 1-9/16 | 10 | 2 | 1-1/8 | 12 | 16d | 8 | 10d x 1-1/2 | 1655 | 1905 | 2070 | 1330 | |
| | HD212 | HU212 | 14 | 1-9/16 | 9-1/4 | 2 | 1-1/8 | 16 | 16d | 6 | 10d x 1-1/2 | 2255 | 2595 | 2730 | 1065 | 5, F10 |
| HD214 | HU214 | 14 | 1-9/16 | 11-1/2 | 2 | 1-1/8 | 20 | 16d | 6 | 10d x 1-1/2 | 2560 | 2660 | 2730 | 1065 | | |
| 2 x 16 | SUH214 | U214 | 16 | 1-9/16 | 10 | 2 | 1-1/8 | 12 | 10d | 8 | 10d x 1-1/2 | 1390 | 1600 | 1740 | 1330 | 2, F20, R12 |
| | | | 16 | 1-9/16 | 10 | 2 | 1-1/8 | 12 | 16d | 8 | 10d x 1-1/2 | 1655 | 1905 | 2070 | 1330 | |
| | HD212 | HU212 | 14 | 1-9/16 | 9-1/4 | 2 | 1-1/8 | 16 | 16d | 6 | 10d x 1-1/2 | 2255 | 2595 | 2730 | 1065 | 5, F10 |
| | HD214 | HU214 | 14 | 1-9/16 | 11-1/2 | 2 | 1-1/8 | 20 | 16d | 6 | 10d x 1-1/2 | 2560 | 2660 | 2730 | 1065 | |
| (2) 2 x 4 | JUS24-2 | LUS24-2 | 18 | 3-1/8 | 3-7/16 | 2 | 1 | 4 | 16d | 2 | 16d | 780 | 900 | 965 | 325 | 6, F5 |
| | SUH24-2 | U24-2 | 16 | 3-1/8 | 3-1/8 | 2 | 1-1/8 | 6 | 10d | 2 | 10d | 695 | 800 | 870 | 370 | 2, F20, R12 |
| | | | 16 | 3-1/8 | 3-1/8 | 2 | 1-1/8 | 6 | 16d | 2 | 10d | 830 | 950 | 1035 | 370 | |
| | HD24-2 | HU24-2 | 14 | 3-1/8 | 3-1/2 | 2-1/2 | 1-1/8 | 4 | 16d | 2 | 10d | 565 | 650 | 705 | 320 | 5, F10 |
| | HUS24-2 | --- | 14 | 3-1/8 | 3-7/16 | 2 | 1 | 4 | 16d | 2 | 16d | 800 | 920 | 920 | 495 | 6, F15 |
| (2) 2 x 6 | JUS26-2 | LUS26-2 | 18 | 3-1/8 | 5-1/4 | 2 | 1 | 4 | 16d | 4 | 16d | 1015 | 1170 | 1220 | 1355 | 6, F5, F15, D7 |
| | JUS26-2GC | --- | 18 | 3-1/8 | 5-1/4 | 2 | 1 | 4 | N16C-GC | 4 | N16C-GC | 1015 | 1170 | 1220 | 1355 | |
| | SUH26-2 | U26-2 | 16 | 3-1/8 | 5-1/16 | 2 | 1-1/8 | 8 | 10d | 4 | 10d | 930 | 1065 | 1160 | 740 | 2, F20, R12 |
| | | | 16 | 3-1/8 | 5-1/16 | 2 | 1-1/8 | 8 | 16d | 4 | 10d | 1105 | 1270 | 1380 | 740 | |
| | HD24-2 | HU24-2 | 14 | 3-1/8 | 3-1/2 | 2-1/2 | 1-1/8 | 4 | 16d | 2 | 10d | 565 | 650 | 705 | 320 | 5, F10 |
| | HUS24-2 | --- | 14 | 3-1/8 | 3-7/16 | 2 | 1 | 4 | 16d | 2 | 16d | 800 | 920 | 920 | 495 | 6, F15 |
| | HUS26-2 | HUS26-2 | 14 | 3-1/8 | 5-1/4 | 2 | 1 | 4 | 16d | 4 | 16d | 1030 | 1185 | 1185 | 1115 | 6, F18, F15, D2 |
| HD26-2 | HU26-2 | 14 | 3-1/8 | 5-1/8 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2095 | 1140 | 5, F10 | |
| (2) 2 x 8 | JUS26-2 | LUS26-2 | 18 | 3-1/8 | 5-1/4 | 2 | 1 | 4 | 16d | 4 | 16d | 1015 | 1170 | 1220 | 1355 | 6, F5, F15, D7 |
| | JUS26-2GC | --- | 18 | 3-1/8 | 5-1/4 | 2 | 1 | 4 | N16C-GC | 4 | N16C-GC | 1015 | 1170 | 1220 | 1355 | |
| | JUS28-2 | LUS28-2 | 18 | 3-1/8 | 7-1/8 | 2 | 1 | 6 | 16d | 4 | 16d | 1290 | 1485 | 1615 | 1355 | |
| | SUH26-2 | U26-2 | 16 | 3-1/8 | 5-1/16 | 2 | 1-1/8 | 8 | 10d | 4 | 10d | 930 | 1065 | 1160 | 740 | 2, F20, R12 |
| | | | 16 | 3-1/8 | 5-1/16 | 2 | 1-1/8 | 8 | 16d | 4 | 10d | 1105 | 1270 | 1380 | 740 | |
| | SUH28-2 | --- | 16 | 3-1/8 | 6-1/4 | 2 | 1-1/8 | 10 | 10d | 4 | 10d | 1160 | 1335 | 1450 | 740 | |
| | | | 16 | 3-1/8 | 6-1/4 | 2 | 1-1/8 | 10 | 16d | 4 | 10d | 1380 | 1585 | 1725 | 740 | |
| | HUS26-2 | HUS26-2 | 14 | 3-1/8 | 5-1/4 | 2 | 1 | 4 | 16d | 4 | 16d | 1030 | 1185 | 1185 | 1115 | 6, F18, F15, D2 |
| | HUS28-2 | HUS28-2 | 14 | 3-1/8 | 7-1/8 | 2 | 1 | 6 | 16d | 6 | 16d | 1550 | 1780 | 1780 | 1810 | |
| | HD26-2 | HU26-2 | 14 | 3-1/8 | 5-1/8 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2095 | 1140 | 5, F10 |
| HD28-2 | HU28-2 | 14 | 3-1/8 | 7-1/8 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | | |
| (2) 2 x 10 | JUS28-2 | LUS28-2 | 18 | 3-1/8 | 7-1/8 | 2 | 1 | 6 | 16d | 4 | 16d | 1290 | 1485 | 1615 | 1355 | 6, F5, F15, D7 |
| | JUS210-2 | LUS210-2 | 18 | 3-1/8 | 9-1/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | |
| | JUS210-2GC | --- | 18 | 3-1/8 | 9-1/8 | 2 | 1 | 8 | N16C-GC | 6 | N16C-GC | 1800 | 2070 | 2250 | 1980 | |
| | SUH28-2 | --- | 16 | 3-1/8 | 6-1/4 | 2 | 1-1/8 | 10 | 10d | 4 | 10d | 1160 | 1335 | 1450 | 740 | 2, F20, R12 |
| | | | 16 | 3-1/8 | 6-1/4 | 2 | 1-1/8 | 10 | 16d | 4 | 10d | 1380 | 1585 | 1725 | 740 | |
| | SUH210-2 | U210-2 | 16 | 3-1/8 | 8-9/16 | 2 | 1-1/8 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | |
| | | | 16 | 3-1/8 | 8-9/16 | 2 | 1-1/8 | 14 | 16d | 6 | 10d | 1930 | 2220 | 2415 | 1115 | |
| | HUS28-2 | HUS28-2 | 14 | 3-1/8 | 7-1/8 | 2 | 1 | 6 | 16d | 6 | 16d | 1550 | 1780 | 1780 | 1810 | 6, F18, F15, D2 |
| | HD28-2 | HU28-2 | 14 | 3-1/8 | 7-1/8 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | 5, F10 |
| | HUS210-2 | HUS210-2 | 14 | 3-1/8 | 9-1/8 | 2 | 1 | 8 | 16d | 8 | 16d | 2065 | 2375 | 2375 | 2210 | 6, F18, F15, D2 |
| HD210-2 | HU210-2 | 14 | 3-1/8 | 9 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 | |
| HDQ210-2IF | HUCQ210-2-SDS | 14 | 3-1/4 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 | |

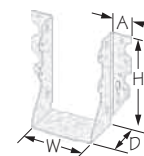
FACE MOUNT HANGER CHARTS CONTINUED



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| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule ^{2,3,4,6,7} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|------------|---------------|---------------|-------------|------------|---------|--------|--------|--|---------|-------------|-------------|------------------------|------|------|---------------------|-----------------|
| | | | | W | H | D | A | Header | | Joist | | DF-L / SP | | | | |
| | | | | | | | | Qty | Nail | Qty | Nail | Floor | Roof | | Uplift ¹ | |
| 100% | 115% | 125% | 160% | | | | | | | | | | | | | |
| 2 x 12 | JUS210-2 | LUS210-2 | 18 | 3-1/8 | 9-1/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | 6, F5, F15, D7 |
| | JUS210-2GC | --- | 18 | 3-1/8 | 9-1/8 | 2 | 1 | 8 | N16C-GC | 6 | N16C-GC | 1800 | 2070 | 2250 | 1980 | |
| | SUH210-2 | U210-2 | 16 | 3-1/8 | 8-9/16 | 2 | 1-1/8 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 2, F20, R12 |
| | | | 16 | 3-1/8 | 8-9/16 | 2 | 1-1/8 | 14 | 16d | 6 | 10d | 1930 | 2220 | 2415 | 1115 | |
| | HUS210-2 | HUS210-2 | 14 | 3-1/8 | 9-1/8 | 2 | 1 | 8 | 16d | 8 | 16d | 2065 | 2375 | 2375 | 2210 | 6, F18, F15, D2 |
| | HD210-2 | HU210-2 | 14 | 3-1/8 | 9 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDQ210-2IF | HUCQ210-2-SDS | 14 | 3-1/4 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| HUS212-2 | HUS212-2 | 14 | 3-1/8 | 11-1/8 | 2 | 1 | 10 | 16d | 10 | 16d | 2580 | 2965 | 2965 | 3060 | 6, F18, F15, D2 | |
| HD212-2 | HU212-2 | 14 | 3-1/8 | 11 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 | |
| 2 x 14 | JUS210-2 | LUS210-2 | 18 | 3-1/8 | 9-1/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | 6, F5, F15, D7 |
| | JUS214-2 | LUS214-2 | 18 | 3-1/8 | 13-1/8 | 2 | 1 | 12 | 16d | 6 | 16d | 2345 | 2700 | 2935 | 1980 | 6, F15 |
| | SUH210-2 | U210-2 | 16 | 3-1/8 | 8-9/16 | 2 | 1-1/8 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 2, F20, R12 |
| | | | 16 | 3-1/8 | 8-9/16 | 2 | 1-1/8 | 14 | 16d | 6 | 10d | 1930 | 2220 | 2415 | 1115 | |
| | HD210-2 | HU210-2 | 14 | 3-1/8 | 9 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDQ210-2IF | HUCQ210-2-SDS | 14 | 3-1/4 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| | HUS212-2 | HUS212-2 | 14 | 3-1/8 | 11-1/8 | 2 | 1 | 10 | 16d | 10 | 16d | 2580 | 2965 | 2965 | 3060 | 6, F18, F15, D2 |
| HD212-2 | HU212-2 | 14 | 3-1/8 | 11 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 | |
| HD214-2 | HU214-2 | 14 | 3-1/8 | 13 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | | |
| 2 x 16 | JUS214-2 | LUS214-2 | 18 | 3-1/8 | 13-1/8 | 2 | 1 | 12 | 16d | 6 | 16d | 2345 | 2700 | 2935 | 1980 | 6, F15 |
| | HD212-2 | HU212-2 | 14 | 3-1/8 | 11 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | |
| | HD214-2 | HU214-2 | 14 | 3-1/8 | 13 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | 5, F10 |
| | HD216-2 | HU216-2 | 14 | 3-1/8 | 15 | 2-1/2 | 1-1/8 | 26 | 16d | 12 | 10d | 3665 | 4215 | 4570 | 2285 | |
| 3 x 4 | SUH34 | U34 | 16 | 2-9/16 | 3-3/8 | 2 | 1-1/8 | 6 | 10d | 2 | 10d x 1-1/2 | 695 | 800 | 850 | 360 | 2, F20, R12 |
| | HD34 | HU34 | 16 | 2-9/16 | 3-3/8 | 2 | 1-1/8 | 6 | 16d | 2 | 10d x 1-1/2 | 830 | 850 | 850 | 360 | |
| | | | 14 | 2-9/16 | 3 | 2 | 1-1/8 | 4 | 16d | 2 | 10d x 1-1/2 | 565 | 650 | 705 | 290 | 5, F10 |
| 3 x 6 | JUS36 | LUS36 | 18 | 2-9/16 | 5-5/16 | 2 | 1 | 4 | 16d | 4 | 16d | 1015 | 1170 | 1220 | 1355 | 6 |
| | SUH34 | U34 | 16 | 2-9/16 | 3-3/8 | 2 | 1-1/8 | 6 | 10d | 2 | 10d x 1-1/2 | 695 | 800 | 850 | 360 | |
| | | | 16 | 2-9/16 | 3-3/8 | 2 | 1-1/8 | 6 | 16d | 2 | 10d x 1-1/2 | 830 | 850 | 850 | 360 | 2, F20, R12 |
| | SUH36 | U36 | 16 | 2-9/16 | 5-5/16 | 2 | 1-1/8 | 8 | 10d | 4 | 10d x 1-1/2 | 930 | 1065 | 1160 | 725 | |
| | | | 16 | 2-9/16 | 5-5/16 | 2 | 1-1/8 | 8 | 16d | 4 | 10d x 1-1/2 | 1105 | 1270 | 1380 | 725 | |
| HD36 | HU36 | 14 | 2-9/16 | 4-3/4 | 2 | 1-1/8 | 8 | 16d | 4 | 10d x 1-1/2 | 1130 | 1295 | 1410 | 730 | 5, F10 | |
| 3 x 8 | JUS38 | --- | 18 | 2-9/16 | 6-3/4 | 2 | 1 | 6 | 16d | 4 | 16d | 1290 | 1485 | 1615 | 1355 | 6 |
| | SUH36 | U36 | 16 | 2-9/16 | 5-5/16 | 2 | 1-1/8 | 8 | 10d | 4 | 10d x 1-1/2 | 930 | 1065 | 1160 | 725 | 2, F20, R12 |
| | | | 16 | 2-9/16 | 5-5/16 | 2 | 1-1/8 | 8 | 16d | 4 | 10d x 1-1/2 | 1105 | 1270 | 1380 | 725 | |
| | HD36 | HU36 | 14 | 2-9/16 | 4-3/4 | 2 | 1-1/8 | 8 | 16d | 4 | 10d x 1-1/2 | 1130 | 1295 | 1410 | 730 | 5, F10 |
| HD38 | HU38 | 14 | 2-9/16 | 6-3/4 | 2 | 1-1/8 | 12 | 16d | 4 | 10d x 1-1/2 | 1690 | 1945 | 2115 | 730 | | |
| 3 x 10 | JUS310 | LUS310 | 18 | 2-9/16 | 9-1/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | 6 |
| | SUH310 | U310 | 16 | 2-9/16 | 8-7/8 | 2 | 1-1/8 | 14 | 10d | 6 | 10d x 1-1/2 | 1625 | 1870 | 2030 | 1085 | 2, F20, R12 |
| | | | 16 | 2-9/16 | 8-7/8 | 2 | 1-1/8 | 14 | 16d | 6 | 10d x 1-1/2 | 1930 | 2220 | 2415 | 1085 | |
| | HD38 | HU38 | 14 | 2-9/16 | 6-3/4 | 2 | 1-1/8 | 12 | 16d | 4 | 10d x 1-1/2 | 1690 | 1945 | 2115 | 730 | 5, F10 |
| | HD310 | HU310 | 14 | 2-9/16 | 7-7/16 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d x 1-1/2 | 1975 | 2270 | 2470 | 1065 | |
| HDQ310IF | HUCQ310-SDS | 14 | 2-9/16 | 9 | 3 | 1-3/16 | 8 | WS3 | 4 | WS15 | 3010 | 3380 | 3380 | 1365 | 130 | |
| 3 x 12 | SUH310 | U310 | 16 | 2-9/16 | 8-7/8 | 2 | 1-1/8 | 14 | 10d | 6 | 10d x 1-1/2 | 1625 | 1870 | 2030 | 1085 | 2, F20, R12 |
| | | | 16 | 2-9/16 | 8-7/8 | 2 | 1-1/8 | 14 | 16d | 6 | 10d x 1-1/2 | 1930 | 2220 | 2415 | 1085 | |
| | HD38 | HU38 | 14 | 2-9/16 | 6-3/4 | 2 | 1-1/8 | 12 | 16d | 4 | 10d x 1-1/2 | 1690 | 1945 | 2115 | 730 | 5, F10 |
| | HD310 | HU310 | 14 | 2-9/16 | 7-7/16 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d x 1-1/2 | 1975 | 2270 | 2470 | 1065 | |
| | HDQ310IF | HUCQ310-SDS | 14 | 2-9/16 | 9 | 3 | 1-3/16 | 8 | WS3 | 4 | WS15 | 3010 | 3380 | 3380 | 1365 | 130 |
| | HD312 | HU312 | 14 | 2-9/16 | 9-5/16 | 2-1/2 | 1-1/8 | 16 | 16d | 10 | 10d x 1-1/2 | 2255 | 2595 | 2820 | 1065 | 5, F10 |
| 3 x 14 | SUH314 | U314 | 16 | 2-9/16 | 10-9/16 | 2 | 1-1/8 | 16 | 10d | 6 | 10d x 1-1/2 | 1855 | 2135 | 2320 | 1085 | 2, F20, R12 |
| | | | 16 | 2-9/16 | 10-9/16 | 2 | 1-1/8 | 16 | 16d | 6 | 10d x 1-1/2 | 2210 | 2505 | 2505 | 1085 | |
| | HD310 | HU310 | 14 | 2-9/16 | 7-7/16 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d x 1-1/2 | 1975 | 2270 | 2470 | 1065 | 5, F10 |
| | HDQ310IF | HUCQ310-SDS | 14 | 2-9/16 | 9 | 3 | 1-3/16 | 8 | WS3 | 4 | WS15 | 3010 | 3380 | 3380 | 1365 | 130 |
| | HD312 | HU312 | 14 | 2-9/16 | 9-5/16 | 2-1/2 | 1-1/8 | 16 | 16d | 10 | 10d x 1-1/2 | 2255 | 2595 | 2820 | 1065 | 5, F10 |
| HD314 | HU314 | 14 | 2-9/16 | 11-5/16 | 2-1/2 | 1-1/8 | 20 | 16d | 10 | 10d x 1-1/2 | 2820 | 3245 | 3525 | 1065 | | |

- Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 - 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 - Minimum nail embedment shall be 1-1/2" for 10d and N10C-GC nails; 1-5/8" for 16d and N16C-GC nails.
 - 16d sinkers (9 gauge x 3-1/4" long) may be used at 0.84 of the table load where 16d commons are specified.
 - For JUS and HUS hangers: Nails must be driven at a 30° to 45° angle through the joist or truss into the header to achieve the table loads.
 - WS15 Wood Screws are 1-1/4" x 1-1/2" long and are included with HDQ hangers.
 - WS3 Wood Screws are 1-1/4" x 3" long and are included with HDQ hangers.
- New products or updated product information are designated in red.



continued on next page

Hangers

| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule ^{2,3,4,5,7} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|------------|---------------|---------------|-------------|------------|---------|-------|-------|--|------|-------|-------------|------------------------|------|------|---------------------|----------------|
| | | | | W | H | D | A | Header | | Joist | | DF-L / SP | | | | |
| | | | | | | | | Qty | Nail | Qty | Nail | Floor | Roof | | Uplift ¹ | |
| 100% | 115% | 125% | 160% | | | | | | | | | | | | | |
| 3 x 16 | SUH314 | U314 | 16 | 2-9/16 | 10-9/16 | 2 | 1-1/8 | 16 | 10d | 6 | 10d x 1-1/2 | 1855 | 2135 | 2320 | 1085 | 2, F20, R12 |
| | | | 16 | 2-9/16 | 10-9/16 | 2 | 1-1/8 | 16 | 16d | 6 | 10d x 1-1/2 | 2210 | 2505 | 2505 | 1085 | |
| | HD312 | HU312 | 14 | 2-9/16 | 9-5/16 | 2-1/2 | 1-1/8 | 16 | 16d | 10 | 10d x 1-1/2 | 2255 | 2595 | 2820 | 1065 | 5, F10 |
| | HD314 | HU314 | 14 | 2-9/16 | 11-5/16 | 2-1/2 | 1-1/8 | 20 | 16d | 10 | 10d x 1-1/2 | 2820 | 3245 | 3525 | 1065 | |
| | HD316 | HU316 | 14 | 2-9/16 | 13-5/16 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d x 1-1/2 | 3385 | 3890 | 4230 | 1065 | |
| (2) 3 x 8 | HD38-2 | HU38-2 | 14 | 5-1/8 | 6-1/8 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | 5, F10 |
| (2) 3 x 10 | HD38-2 | HU38-2 | 14 | 5-1/8 | 6-1/8 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | |
| | HD310-2 | HU310-2 | 14 | 5-1/8 | 8 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | |
| (2) 3 x 12 | HD310-2 | HU310-2 | 14 | 5-1/8 | 8 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | |
| HD310-2 | HU310-2 | 14 | 5-1/8 | 8 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | | |
| (3) 2 x 6 | JUS26-3 | LUS26-3 | 18 | 4-5/8 | 4-1/2 | 2 | 1 | 4 | 16d | 4 | 16d | 1015 | 1170 | 1220 | 1355 | 6, F5, F15, D7 |
| | SUH26-3 | U26-3 | 16 | 4-5/8 | 5-1/4 | 2 | 1 | 8 | 10d | 2 | 10d | 930 | 1065 | 1160 | 370 | 2, F20, R12 |
| | | | 16 | 4-5/8 | 5-1/4 | 2 | 1 | 8 | 16d | 2 | 10d | 1105 | 1270 | 1380 | 370 | 5, F10 |
| HD26-3 | HU26-3 | 14 | 4-5/8 | 4-3/8 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2095 | 1140 | (3) 2 x 8 | |
| JUS26-3 | LUS26-3 | 18 | 4-5/8 | 4-1/2 | 2 | 1 | 4 | 16d | 4 | 16d | 1015 | 1170 | 1220 | 1355 | | 6, F5, F15, D7 |
| JUS28-3 | LUS28-3 | 18 | 4-5/8 | 6-3/8 | 2 | 1 | 6 | 16d | 4 | 16d | 1290 | 1485 | 1615 | 1355 | | 5, F10 |
| SUH26-3 | U26-3 | 16 | 4-5/8 | 5-1/4 | 2 | 1 | 8 | 10d | 2 | 10d | 930 | 1065 | 1160 | 370 | | 2, F20, R12 |
| | | 16 | 4-5/8 | 5-1/4 | 2 | 1 | 8 | 16d | 2 | 10d | 1105 | 1270 | 1380 | 370 | | 5, F10 |
| HD26-3 | HU26-3 | 14 | 4-5/8 | 4-3/8 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2095 | 1140 | 5, F10 | |
| HD28-3 | --- | 14 | 4-5/8 | 6-3/8 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2115 | 1140 | | |
| (3) 2 x 10 | JUS28-3 | LUS28-3 | 18 | 4-5/8 | 6-3/8 | 2 | 1 | 6 | 16d | 4 | 16d | 1290 | 1485 | 1615 | 1355 | 6, F5, F15, D7 |
| | JUS210-3 | LUS210-3 | 18 | 4-5/8 | 8-3/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | 5, F10 |
| | SUH210-3 | U210-3 | 16 | 4-5/8 | 8-3/8 | 2 | 1 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 2, F20, R12 |
| | | | 16 | 4-5/8 | 8-3/8 | 2 | 1 | 14 | 16d | 6 | 10d | 1930 | 2220 | 2415 | 1115 | 5, F10 |
| | HD28-3 | --- | 14 | 4-5/8 | 6-3/8 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2115 | 1140 | 5, F10 |
| HD210-3 | HU210-3 | 14 | 4-5/8 | 8-1/4 | 2-1/2 | 1-1/8 | 18 | 16d | 12 | 10d | 2540 | 2920 | 3175 | 1905 | | |
| HDQ210-3IF | HUCQ210-3-SDS | 14 | 4-5/8 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 | |
| (3) 2 x 12 | JUS210-3 | LUS210-3 | 18 | 4-5/8 | 8-3/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | 6, F5, F15, D7 |
| | SUH210-3 | U210-3 | 16 | 4-5/8 | 8-3/8 | 2 | 1 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 2, F20, R12 |
| | | | 16 | 4-5/8 | 8-3/8 | 2 | 1 | 14 | 16d | 6 | 10d | 1930 | 2220 | 2415 | 1115 | 5, F10 |
| | HD210-3 | HU210-3 | 14 | 4-5/8 | 8-1/4 | 2-1/2 | 1-1/8 | 18 | 16d | 12 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDQ210-3IF | HUCQ210-3-SDS | 14 | 4-5/8 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| HD212-3 | HU212-3 | 14 | 4-5/8 | 10-1/4 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 | |
| (3) 2 x 14 | JUS210-3 | LUS210-3 | 18 | 4-5/8 | 8-3/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | 6, F5, F15, D7 |
| | SUH210-3 | U210-3 | 16 | 4-5/8 | 8-3/8 | 2 | 1 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 2, F20, R12 |
| | | | 16 | 4-5/8 | 8-3/8 | 2 | 1 | 14 | 16d | 6 | 10d | 1930 | 2220 | 2415 | 1115 | 5, F10 |
| | HD210-3 | HU210-3 | 14 | 4-5/8 | 8-1/4 | 2-1/2 | 1-1/8 | 18 | 16d | 12 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDQ210-3IF | HUCQ210-3-SDS | 14 | 4-5/8 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| | HD212-3 | HU212-3 | 14 | 4-5/8 | 10-1/4 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 |
| HD214-3 | HU214-3 | 14 | 4-5/8 | 12-1/4 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | | |
| (3) 2 x 16 | HD212-3 | HU212-3 | 14 | 4-5/8 | 10-1/4 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 |
| | HD214-3 | HU214-3 | 14 | 4-5/8 | 12-1/4 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | |
| | HD216-3 | HU216-3 | 14 | 4-5/8 | 14-1/4 | 2-1/2 | 1-1/8 | 26 | 16d | 12 | 10d | 3665 | 4215 | 4570 | 2285 | 5 |
| | HD210-4 | --- | 14 | 6-1/8 | 9 | 3-1/4 | 2 | 24 | 16d | 6 | 10d | 3385 | 3890 | 4230 | 1140 | |
| (4) 2 x 12 | HD210-4 | --- | 14 | 6-1/8 | 9 | 3-1/4 | 2 | 24 | 16d | 6 | 10d | 3385 | 3890 | 4230 | 1140 | 5 |
| (4) 2 x 14 | HD210-4 | --- | 14 | 6-1/8 | 9 | 3-1/4 | 2 | 24 | 16d | 6 | 10d | 3385 | 3890 | 4230 | 1140 | |
| 4 x 4 | JUS44 | LUS44 | 18 | 3-5/8 | 3-1/4 | 2 | 1 | 4 | 16d | 2 | 16d | 780 | 900 | 965 | 325 | 6, F5 |
| | SUH44 | U44 | 16 | 3-9/16 | 2-7/8 | 2 | 1-1/8 | 6 | 10d | 2 | 10d | 695 | 800 | 870 | 370 | 2, F20, R12 |
| | | | 16 | 3-9/16 | 2-7/8 | 2 | 1-1/8 | 6 | 16d | 2 | 10d | 830 | 950 | 1035 | 370 | 5, F10 |
| | HD44 | HU44 | 14 | 3-9/16 | 3-5/16 | 2-1/2 | 1-1/8 | 4 | 16d | 2 | 10d | 565 | 650 | 705 | 320 | 4 x 6 |
| JUS46 | LUS46 | 18 | 3-5/8 | 5 | 2 | 1 | 4 | 16d | 4 | 16d | 1015 | 1170 | 1220 | 1355 | 6, F5, F15, D7 | |
| SUH44 | U44 | 16 | 3-9/16 | 2-7/8 | 2 | 1-1/8 | 6 | 10d | 2 | 10d | 695 | 800 | 870 | 370 | 2, F20, R12 | |
| | | 16 | 3-9/16 | 2-7/8 | 2 | 1-1/8 | 6 | 16d | 2 | 10d | 830 | 950 | 1035 | 370 | | |
| SUH46 | U46 | 16 | 3-9/16 | 4-13/16 | 2 | 1-1/8 | 8 | 10d | 4 | 10d | 930 | 1065 | 1160 | 740 | 6, F18, F15, D2 | |
| | | 16 | 3-9/16 | 4-13/16 | 2 | 1-1/8 | 8 | 16d | 4 | 10d | 1105 | 1270 | 1380 | 740 | | |
| HUS46 | HUS46 | 14 | 3-5/8 | 5 | 2 | 1 | 4 | 16d | 4 | 16d | 1030 | 1185 | 1185 | 1115 | 5, F10 | |
| HD46 | HU46 | 14 | 3-9/16 | 4-15/16 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2095 | 1140 | | |

FACE MOUNT HANGER CHARTS CONTINUED



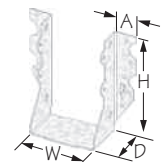
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| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule ^{2,3,4,5,6} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|------------|---------------|-------------|-------------|------------|----------|-------|-------|--|------|-------|------|------------------------|------|------|---------------------|-----------------|
| | | | | W | H | D | A | Header | | Joist | | DF-L / SP | | | | |
| | | | | | | | | Qty | Nail | Qty | Nail | Floor | Roof | | Uplift ¹ | |
| | | | | 100% | 115% | 125% | 160% | | | | | | | | | |
| 4 x 8 | JUS46 | LUS46 | 18 | 3-5/8 | 5 | 2 | 1 | 4 | 16d | 4 | 16d | 1015 | 1170 | 1220 | 1355 | 6, F5, F15, D7 |
| | JUS48 | LUS48 | 18 | 3-5/8 | 6-7/8 | 2 | 1 | 6 | 16d | 4 | 16d | 1290 | 1485 | 1615 | 1355 | 2, F20, R12 |
| | SUH46 | U46 | 16 | 3-9/16 | 4-13/16 | 2 | 1-1/8 | 8 | 10d | 4 | 10d | 930 | 1065 | 1160 | 740 | 6, F18, F15, D2 |
| | | | 16 | 3-9/16 | 4-13/16 | 2 | 1-1/8 | 8 | 16d | 4 | 10d | 1105 | 1270 | 1380 | 740 | 5, F10 |
| | HUS46 | HUS46 | 14 | 3-5/8 | 5 | 2 | 1 | 4 | 16d | 4 | 16d | 1030 | 1185 | 1185 | 1115 | |
| | HUS48 | HUS48 | 14 | 3-5/8 | 7 | 2 | 1 | 6 | 16d | 6 | 16d | 1550 | 1780 | 1780 | 1810 | |
| | HD46 | HU46 | 14 | 3-9/16 | 4-15/16 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2095 | 1140 | |
| HD48 | HU48 | 14 | 3-9/16 | 6-7/8 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | | |
| 4 x 10 | JUS48 | LUS48 | 18 | 3-5/8 | 6-7/8 | 2 | 1 | 6 | 16d | 4 | 16d | 1290 | 1485 | 1615 | 1355 | 6, F5, F15, D7 |
| | JUS410 | LUS410 | 18 | 3-5/8 | 8-7/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | 2, F20, R12 |
| | SUH410 | U410 | 16 | 3-9/16 | 8-3/8 | 2 | 1-1/8 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 6, F18, F15, D2 |
| | | | 16 | 3-9/16 | 8-3/8 | 2 | 1-1/8 | 14 | 16d | 6 | 10d | 1930 | 2220 | 2415 | 1115 | 5, F10 |
| | HUS48 | HUS48 | 14 | 3-5/8 | 7 | 2 | 1 | 6 | 16d | 6 | 16d | 1550 | 1780 | 1780 | 1810 | |
| | HD48 | HU48 | 14 | 3-9/16 | 6-7/8 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | |
| | HUS410 | HUS410 | 14 | 3-5/8 | 8-7/8 | 2 | 1 | 8 | 16d | 8 | 16d | 2065 | 2375 | 2375 | 2210 | |
| | HD410 | HU410 | 14 | 3-9/16 | 8-13/16 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | |
| HDQ410IF | HUCQ410-SDS | 14 | 3-9/16 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 | |
| 4 x 12 | JUS410 | LUS410 | 18 | 3-5/8 | 8-7/8 | 2 | 1 | 8 | 16d | 6 | 16d | 1800 | 2070 | 2250 | 1980 | 6, F5, F15, D7 |
| | SUH410 | U410 | 16 | 3-9/16 | 8-3/8 | 2 | 1-1/8 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 2, F20, R12 |
| | | | 16 | 3-9/16 | 8-3/8 | 2 | 1-1/8 | 14 | 16d | 6 | 10d | 1930 | 2220 | 2415 | 1115 | |
| | HD48 | HU48 | 14 | 3-9/16 | 6-7/8 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | 5, F10 |
| | HUS410 | HUS410 | 14 | 3-5/8 | 8-7/8 | 2 | 1 | 8 | 16d | 8 | 16d | 2065 | 2375 | 2375 | 2210 | 6, F18, F15, D2 |
| | HD410 | HU410 | 14 | 3-9/16 | 8-13/16 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDQ410IF | HUCQ410-SDS | 14 | 3-9/16 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| | HUS412 | HUS412 | 14 | 3-5/8 | 10-7/8 | 2 | 1 | 10 | 16d | 10 | 16d | 2580 | 2965 | 2965 | 3060 | 6, F18, F15, D2 |
| | HDQ412IF | HUCQ412-SDS | 14 | 3-9/16 | 11 | 3 | 1-1/2 | 14 | WS3 | 6 | WS3 | 5265 | 5590 | 5590 | 2975 | 130 |
| HD412 | HU412 | 14 | 3-9/16 | 10-13/16 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 | |
| 4 x 14 | JUS414 | LUS414 | 18 | 3-5/8 | 12-7/8 | 2 | 1 | 12 | 16d | 6 | 16d | 2345 | 2700 | 2935 | 1980 | 6, F15 |
| | SUH414 | U414 | 16 | 3-9/16 | 10-1/16 | 2 | 1-1/8 | 16 | 10d | 6 | 10d | 1855 | 2135 | 2320 | 1115 | 2, F20, R12 |
| | | | 16 | 3-9/16 | 10-1/16 | 2 | 1-1/8 | 16 | 16d | 6 | 10d | 2210 | 2540 | 2760 | 1115 | |
| | HD410 | HU410 | 14 | 3-9/16 | 8-13/16 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDQ410IF | HUCQ410-SDS | 14 | 3-9/16 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| | HUS412 | HUS412 | 14 | 3-5/8 | 10-7/8 | 2 | 1 | 10 | 16d | 10 | 16d | 2580 | 2965 | 2965 | 3060 | 6, F18, F15, D2 |
| | HDQ412IF | HUCQ412-SDS | 14 | 3-9/16 | 11 | 3 | 1-1/2 | 14 | WS3 | 6 | WS3 | 5265 | 5590 | 5590 | 2975 | 130 |
| | HD412 | HU412 | 14 | 3-9/16 | 10-13/16 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 |
| HD414 | HU414 | 14 | 3-9/16 | 12-13/16 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | | |
| 4 x 16 | JUS414 | LUS414 | 18 | 3-5/8 | 12-7/8 | 2 | 1 | 12 | 16d | 6 | 16d | 2345 | 2700 | 2935 | 1980 | 6, F15 |
| | SUH414 | U414 | 16 | 3-9/16 | 10-1/16 | 2 | 1-1/8 | 16 | 10d | 6 | 10d | 1855 | 2135 | 2320 | 1115 | 2, F20, R12 |
| | | | 16 | 3-9/16 | 10-1/16 | 2 | 1-1/8 | 16 | 16d | 6 | 10d | 2210 | 2540 | 2760 | 1115 | |
| | HD412 | HU412 | 14 | 3-9/16 | 10-13/16 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 |
| | HDQ412IF | HUCQ412-SDS | 14 | 3-9/16 | 11 | 3 | 1-1/2 | 14 | WS3 | 6 | WS3 | 5265 | 5590 | 5590 | 2975 | 130 |
| | HD414 | HU414 | 14 | 3-9/16 | 12-13/16 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | |
| | HD416 | HU416 | 14 | 3-9/16 | 14-13/16 | 2-1/2 | 1-1/8 | 26 | 16d | 12 | 10d | 3665 | 4215 | 4570 | 2285 | |
| 4 x 18 | HD414 | HU414 | 14 | 3-9/16 | 12-13/16 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | 5, F10 |
| | HD416 | HU416 | 14 | 3-9/16 | 14-13/16 | 2-1/2 | 1-1/8 | 26 | 16d | 12 | 10d | 3665 | 4215 | 4570 | 2285 | |
| | HD418 | --- | 14 | 3-9/16 | 16-1/2 | 2-1/2 | 1-1/4 | 28 | 16d | 8 | 10d | 3950 | 4540 | 4570 | 1425 | |

- Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 - 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 - Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
 - 16d sinkers (9 gauge x 3-1/4" long) may be used at 0.84 of the table load where 16d commons are specified.
 - WS15 Wood Screws are 1-1/4" x 1-1/2" long and are included with HDQ hangers.
 - WS3 Wood Screws are 1-1/4" x 3" long and are included with HDQ hangers.
- New products or updated product information are designated in red.

| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule ^{2,3,4} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|-------------------------|---------------|--------------|-------------|------------|----------|-------|--------|------------------------------------|------|-------|-------------|------------------------|------|------|---------------------|-------------|
| | | | | W | H | D | A | Header | | Joist | | DF-L / SP | | | | |
| | | | | | | | | Qty | Nail | Qty | Nail | Floor | Roof | | Uplift ¹ | |
| 100% | 115% | 125% | 160% | | | | | | | | | | | | | |
| 6 x 6 | SUH66 | U66 | 16 | 5-1/2 | 5 | 2 | 1 | 8 | 10d | 4 | 10d | 930 | 1065 | 1160 | 740 | 2, F20, R12 |
| | HD66 | HU66 | 14 | 5-1/2 | 3-15/16 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1105 | 1270 | 1380 | 740 | 5, F10 |
| 6 x 8 | SUH66 | U66 | 16 | 5-1/2 | 5 | 2 | 1 | 8 | 10d | 4 | 10d | 930 | 1065 | 1160 | 740 | 2, F20, R12 |
| | HD66 | HU66 | 14 | 5-1/2 | 3-15/16 | 2-1/2 | 1-1/8 | 12 | 16d | 6 | 10d | 1690 | 1945 | 2095 | 1140 | 5, F10 |
| | HD68 | HU68 | 14 | 5-1/2 | 5-15/16 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | 5, F10 |
| 6 x 10 | SUH610 | U610 | 16 | 5-1/2 | 9 | 2 | 1 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 2, F20, R12 |
| | HD68 | HU68 | 14 | 5-1/2 | 5-15/16 | 2-1/2 | 1-1/8 | 14 | 16d | 6 | 10d | 1975 | 2270 | 2470 | 1140 | 5, F10 |
| | HD610 | HU610 | 14 | 5-1/2 | 7-13/16 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDC610IF | HUCQ610-SDS | 14 | 5-1/2 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| 6 x 12 | SUH610 | U610 | 16 | 5-1/2 | 9 | 2 | 1 | 14 | 10d | 6 | 10d | 1625 | 1870 | 2030 | 1115 | 2, F20, R12 |
| | HD610 | HU610 | 14 | 5-1/2 | 7-13/16 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDC610IF | HUCQ610-SDS | 14 | 5-1/2 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| | HD612 | HU612 | 14 | 5-1/2 | 9-13/16 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 |
| | HDC612IF | HUCQ612-SDS | 14 | 5-1/2 | 11 | 3 | 1-1/2 | 14 | WS3 | 6 | WS3 | 5265 | 5590 | 5590 | 2975 | 130 |
| 6 x 14 | HD610 | HU610 | 14 | 5-1/2 | 7-13/16 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDC610IF | HUCQ610-SDS | 14 | 5-1/2 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| | HD612 | HU612 | 14 | 5-1/2 | 9-13/16 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 |
| | HDC612IF | HUCQ612-SDS | 14 | 5-1/2 | 11 | 3 | 1-1/2 | 14 | WS3 | 6 | WS3 | 5265 | 5590 | 5590 | 2975 | 130 |
| 6 x 16 | HD610 | HU610 | 14 | 5-1/2 | 7-13/16 | 2-1/2 | 1-1/8 | 18 | 16d | 10 | 10d | 2540 | 2920 | 3175 | 1905 | 5, F10 |
| | HDC610IF | HUCQ610-SDS | 14 | 5-1/2 | 9 | 3 | 1-1/2 | 12 | WS3 | 6 | WS3 | 4510 | 5190 | 5590 | 2975 | 130 |
| | HD612 | HU612 | 14 | 5-1/2 | 9-13/16 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 |
| | HDC612IF | HUCQ612-SDS | 14 | 5-1/2 | 11 | 3 | 1-1/2 | 14 | WS3 | 6 | WS3 | 5265 | 5590 | 5590 | 2975 | 130 |
| 6 x 18 | HD614 | HU614 | 14 | 5-1/2 | 11-13/16 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | 5, F10 |
| | HD616 | HU616 | 14 | 5-1/2 | 13-13/16 | 2-1/2 | 1-1/8 | 26 | 16d | 12 | 10d | 3665 | 4215 | 4570 | 2285 | 5, F10 |
| | HD618 | HU618 | 14 | 5-1/2 | 15-13/16 | 2-1/2 | 1-1/8 | 28 | 16d | 12 | 10d | 3945 | 4515 | 4870 | 2285 | 5, F10 |
| 8 x 6 | HD86 | --- | 14 | 7-1/2 | 5-1/8 | 2-1/2 | 1-1/2 | 10 | 16d | 4 | 16d | 1410 | 1620 | 1740 | 900 | |
| 8 x 8 | HD88 | HU88 | 14 | 7-1/2 | 6-5/8 | 2-1/2 | 1-1/2 | 14 | 16d | 6 | 16d | 1975 | 2270 | 2470 | 1355 | |
| 8 x 10 | HD810 | HU810 | 14 | 7-1/2 | 8-3/8 | 2-1/2 | 1-1/2 | 18 | 16d | 8 | 16d | 2540 | 2920 | 3175 | 1805 | 5 |
| 8 x 12 | HD812 | HU812 | 14 | 7-1/2 | 10-1/8 | 2-1/2 | 1-1/2 | 22 | 16d | 8 | 16d | 3100 | 3565 | 3880 | 1805 | 5 |
| 8 x 14 | HD814 | HU814 | 14 | 7-1/2 | 11-7/8 | 2-1/2 | 1-1/2 | 24 | 16d | 12 | 16d | 3385 | 3890 | 4230 | 2705 | 5 |
| 8 x 16 | HD816 | HU816 | 14 | 7-1/2 | 13-5/8 | 2-1/2 | 1-1/2 | 26 | 16d | 12 | 16d | 3665 | 4215 | 4465 | 2705 | 5 |
| Rough Lumber Sizes | | | | | | | | | | | | | | | | |
| 2 x 4 | SUH24R | U24R | 16 | 2 | 3-1/16 | 2 | 1-1/8 | 4 | 10d | 2 | 10d x 1-1/2 | 465 | 535 | 580 | 360 | 2, F20, R12 |
| | | | 16 | 2 | 3-1/16 | 2 | 1-1/8 | 4 | 16d | 2 | 10d x 1-1/2 | 550 | 635 | 690 | 360 | |
| 2 x 6 - 8 | SUH26R | U26R | 16 | 2 | 4-15/16 | 2 | 1-3/16 | 6 | 10d | 4 | 10d x 1-1/2 | 695 | 800 | 870 | 725 | 130 |
| | | | 16 | 2 | 4-15/16 | 2 | 1-3/16 | 6 | 16d | 4 | 10d x 1-1/2 | 830 | 950 | 1035 | 725 | |
| 2 x 8 - 10 | SUH28R | --- | 16 | 2 | 6-7/16 | 2 | 1-1/8 | 8 | 10d | 6 | 10d x 1-1/2 | 930 | 1065 | 1160 | 800 | 130 |
| | | | 16 | 2 | 6-7/16 | 2 | 1-1/8 | 8 | 16d | 6 | 10d x 1-1/2 | 1105 | 1270 | 1380 | 800 | |
| 2 x 10 - 12 - 14 | SUH210R | U210R | 16 | 2 | 7-13/16 | 2 | 1-1/8 | 10 | 10d | 6 | 10d x 1-1/2 | 1160 | 1335 | 1450 | 1085 | 130 |
| | | | 16 | 2 | 7-13/16 | 2 | 1-1/8 | 10 | 16d | 6 | 10d x 1-1/2 | 1380 | 1585 | 1725 | 1085 | |
| 2 x 14 - 16 | SUH214R | --- | 16 | 2 | 9-13/16 | 2 | 1-1/8 | 12 | 10d | 6 | 10d x 1-1/2 | 1390 | 1600 | 1740 | 1085 | 130 |
| | | | 16 | 2 | 9-13/16 | 2 | 1-1/8 | 12 | 16d | 6 | 10d x 1-1/2 | 1655 | 1905 | 2070 | 1085 | |
| 4 x 6 | SUH44R | U44R | 16 | 4 | 2-11/16 | 2 | 1-1/8 | 6 | 10d | 2 | 16d | 695 | 800 | 870 | 440 | 2, F20, R12 |
| | | | 16 | 4 | 2-11/16 | 2 | 1-1/8 | 6 | 16d | 2 | 16d | 830 | 950 | 1035 | 440 | |
| 4 x 8 | SUH46R | U46R | 16 | 4 | 4-11/16 | 2 | 1-1/8 | 8 | 10d | 4 | 16d | 930 | 1065 | 1160 | 885 | 2, F20, R12 |
| | | | 16 | 4 | 4-11/16 | 2 | 1-1/8 | 8 | 16d | 4 | 16d | 1105 | 1270 | 1380 | 885 | |
| 4 x 10 | SUH410R | U410R | 16 | 4 | 8-3/16 | 2 | 2 | 14 | 10d | 6 | 16d | 1625 | 1870 | 2030 | 1325 | 2, F20, R12 |
| | | | 16 | 4 | 8-3/16 | 2 | 2 | 14 | 16d | 6 | 16d | 1930 | 2220 | 2415 | 1325 | |
| 6 x 8 | SUH66R | U66R | 16 | 6 | 5 | 2 | 1 | 8 | 10d | 4 | 16d | 930 | 1065 | 1160 | 885 | 2, F20, R12 |
| | | | 16 | 6 | 5 | 2 | 1 | 8 | 16d | 4 | 16d | 1105 | 1270 | 1380 | 885 | |
| 6 x 10 | SUH610R | U610R | 16 | 6 | 9 | 2 | 1 | 14 | 10d | 6 | 16d | 1625 | 1870 | 2030 | 1325 | 2, F20, R12 |
| | | | 16 | 6 | 9 | 2 | 1 | 14 | 16d | 6 | 16d | 1930 | 2220 | 2415 | 1325 | |
| Glulam Sizes | | | | | | | | | | | | | | | | |
| 3-1/8 x 10-1/2 - 19-1/2 | HD32105 | HU3.25/10.5 | 14 | 3-1/4 | 9-15/16 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 10d | 3100 | 3565 | 3880 | 1905 | 5, F10 |
| 3-1/8 x 12 - 21 | HD3212 | HU3.25/12 | 14 | 3-1/4 | 11-7/8 | 2-1/2 | 1-1/8 | 24 | 16d | 10 | 10d | 3385 | 3890 | 4230 | 1905 | |
| 5-1/8 x 10-1/2 - 19-1/2 | HD5112 | HU5.125/12 | 14 | 5-1/4 | 9-15/16 | 2-1/2 | 1-1/8 | 22 | 16d | 10 | 16d | 3100 | 3565 | 3880 | 1905 | |
| 5-1/8 x 14-1/2 - 21 | HD51135 | HU5.125/13.5 | 14 | 5-1/4 | 12-15/16 | 2-1/2 | 1-1/8 | 26 | 16d | 12 | 16d | 3665 | 4215 | 4570 | 2285 | |

- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 - 2) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 - 3) Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
 - 4) 16d sinkers (9 gauge x 3-1/4" long) may be used at 0.84 of the table load where 16d commons are specified.
 - 5) WS15 Wood Screws are 1-1/4" x 1-1/2" long and are included with HDQ hangers.
 - 6) WS3 Wood Screws are 1-1/4" x 3" long and are included with HDQ hangers.
- New products or updated product information are designated in red.



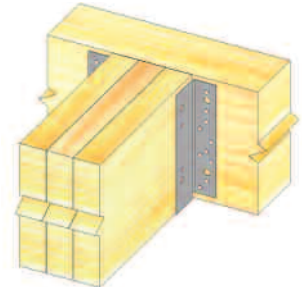
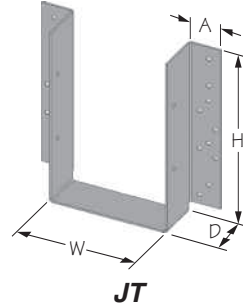
These 14 gauge hangers are designed to support joists and beams in exposed applications where a more decorative appearance is desired. All models are coated with USP primer for subsequent finish painting by the installer.

Materials: 14 gauge
Finish: USP primer

Installation:

- Use all specified fasteners. See Product Notes, page 10.

Some model designs may vary from illustration shown



Typical JT installation

| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule ^{2,3,4} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|---------------------|---------------|----------|-------------|------------|-------|-------|-------|------------------------------------|------|-------|-------------|------------------------|------|------|---------------------|-----------|
| | | | | W | H | D | A | Header | | Joist | | DF-L / SP | | | | |
| | | | | | | | | Qty | Type | Qty | Type | Floor | Roof | | Uplift ¹ | |
| | | | | 100% | 115% | 125% | 160% | | | | | | | | | |
| 2 x 6 - 8 | JSS | --- | 14 | 1-9/16 | 5 | 1-5/8 | 1-1/4 | 10 | 16d | 4 | 8d x 1-1/2 | 1420 | 1635 | 1775 | 640 | 130 |
| 2 x 8 - 10 - 12 | JS | --- | 14 | 1-9/16 | 7 | 1-5/8 | 1-1/4 | 10 | 16d | 4 | 8d x 1-1/2 | 1420 | 1635 | 1775 | 640 | |
| (2) 2 x 6 - 8 | JDD | --- | 14 | 3-1/16 | 5-3/8 | 1-5/8 | 1-1/4 | 14 | 16d | 4 | 10d | 1990 | 2285 | 2485 | 770 | |
| (2) 2 x 8 - 10 - 12 | JD | --- | 14 | 3-1/16 | 7-1/4 | 1-5/8 | 1-1/4 | 20 | 16d | 4 | 10d | 2840 | 3265 | 3550 | 770 | |
| (3) 2 x 8 - 10 - 12 | JT | --- | 14 | 4-9/16 | 7 | 1-3/4 | 1-1/4 | 20 | 16d | 4 | 10d | 2840 | 3265 | 3550 | 770 | |
| 3 x 8 - 10 - 12 | J3 | --- | 14 | 2-9/16 | 6-1/2 | 1-3/4 | 1-1/4 | 18 | 16d | 4 | 10d x 1-1/2 | 2555 | 2940 | 3195 | 740 | |
| 4 x 8 - 10 - 12 | J4 | --- | 14 | 3-9/16 | 7 | 1-3/4 | 1-1/4 | 20 | 16d | 4 | 10d | 2840 | 3265 | 3550 | 770 | |
| 6 x 8 - 10 - 12 | J6 | --- | 14 | 5-9/16 | 7 | 1-5/8 | 1-1/4 | 20 | 16d | 4 | 16d | 2840 | 3265 | 3550 | 910 | |

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 2) 8d x 1-1/2 nails are 11 gauge (0.131" diameter) by 1-1/2" long.
 3) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 4) Minimum nail embedment shall be 1-5/8" for 16d nails.

BEAM & PURLIN HANGERS – KB, KHB, KHHB, & KLB SERIES

With a top mount design and heavy steel fabrication the KB, KHB, KHHB, and KLB hangers can cover medium-to-heavy beam and purlin applications. The top mount design offers high loads with less nailing than comparable face mount hangers.

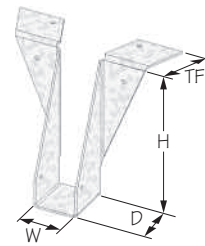
- KLB** – 14 gauge.
- KB** – 12 gauge.
- KHB** – 12 gauge, deeper seat.
- KHHB** – 7 gauge.

Materials: See chart
Finish: KLB, KB & KHB – G90 galvanizing; KHHB – USP primer
Codes: ESR-1280, FL1164, L.A. City RR 25749

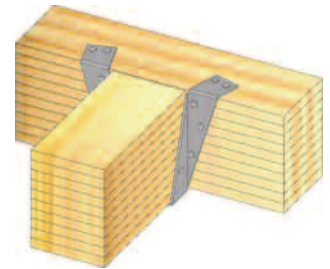
Installation:

- Use all specified fasteners. See Product Notes, page 10.
- NA20D and NA25 nails are included with hangers where applicable.
- **KB, KHB, and KHHB models are not recommended for use with LVL, PSL, or LSL members.**

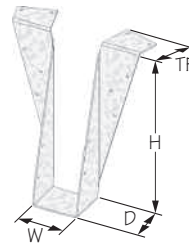
See Welded Installation Chart on page 205.



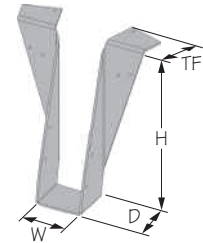
KLB



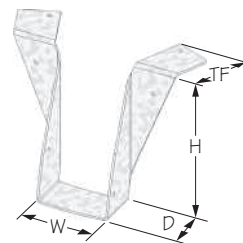
Typical KHHB installation



KHB



KHHB



KB

Primarily used to hang joists or headers in medium load conditions. These hangers provide higher load values with less nailing.

Materials: 12 gauge

Finish: G90 galvanizing

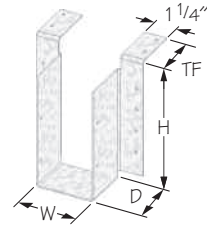
Options: All nominal lumber sizes are available for rough/full size lumber. See Specialty Options Chart.

Codes: ESR-1781, FL815

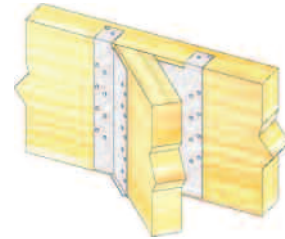
Installation:

- Use all specified fasteners. See Product Notes, page 10.
- Check top flange dimensions to ensure compatibility with header widths.

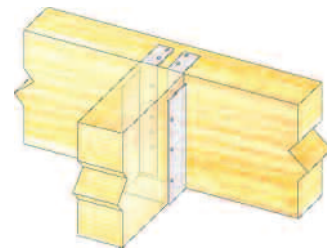
• Do not use for welded or nailer applications. Reference Specialty Options chart below for hanger options.



HDO28-2



Typical HDO skewed option installation



Typical HDO410IF inverted flange installation

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Specialty Options Chart – refer to Specialty Options pages 201 and 203 for additional details.

| Option | Skewed ^{1,3} | Sloped Seat ^{2,3} | Sloped / Skewed ^{1,2,3} | Inverted Flange |
|-----------------|---|--|---|---|
| Range | 1' to 67-1/2' when width is 1-3/4" or less. 1' to 50' on all others. | 1' to 45' | See Sloped Seat and Skewed | Not available in widths less than 3-1/8" |
| Allowable Loads | 100% of table load. 75% of uplift load on skews greater than 15'. | 100% of table load | 80% of table load. 75% of uplift load on skews greater than 15'. | 100% of table load. 65% of table load when nailing into the support members end grain. |
| Ordering | Add SK, angle required, and right (R) or left (L), to product number. Ex. HDO210-SK45R | Add SL, slope required, and up (U) or down (D), to product number. Ex. HDO210-SL30D | See Sloped Seat and Skewed. Ex. HDO210-SK45RSL30D | Add IF to product number. Ex. HDO610IF |

1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
 3) All sloped, skewed, or combinations require bevel cut on joist in all applications and web stiffeners with I-joists.

SW – Light-duty hanger.

SWH – Medium-duty hanger.

KHW – Heavy-duty hanger installs with NA20D nails for higher load capacities.

Materials: SW top flange - 12 gauge; stirrup - 12 gauge;
SWH top flange - 7 gauge; stirrup - 12 gauge;
KHW top flange - 3 gauge; stirrup - 10 gauge.

Finish: USP primer

Options: All nominal lumber sizes are available for rough/full size lumber. See Specialty Options below.

Codes: ESR-2104, FL820, L.A. City RR 25745

Installation:

- Use all specified fasteners. See Product Notes, page 10.
- NA20D nails are supplied with KHW hangers.

• **KHW models are not recommended for use with LVL, PSL, or LSL members.**

Nailer Installation Chart – chart represents maximum allowable loads for hangers used on wood nailers. Reference page 117.

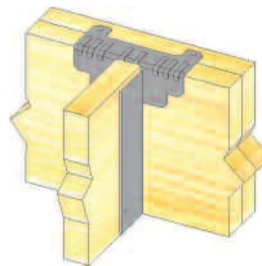
| USP Stock No. | Nailer Size | Fastener Schedule ^{1,2,3} | | Allowable Loads (Lbs.) ⁴ | |
|---------------|-------------|------------------------------------|-----------------|-------------------------------------|-------|
| | | Header | Joist | DF-L / SP | S-P-F |
| SW | 2X | (2) 10d x 1-1/2 | (2) 10d x 1-1/2 | 1635 | 1115 |
| SWH | 2X | (2) 10d x 1-1/2 | (2) 10d | 2600 | 1770 |
| | 3X | (2) 16d x 2-1/2 | (2) 10d | 3350 | 2280 |
| KHW | 3X | (4) 16d x 2-1/2 | (2) 10d | 5180 | 3525 |

- 1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 2) 16d x 2-1/2 nails are 8 gauge (0.162" diameter) by 2-1/2" long.
- 3) Minimum nail embedment shall be 1-1/2" for 10d nails.
- 4) Listed loads shall not be increased.

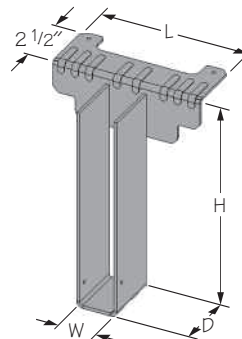
Specialty Options Chart – refer to Specialty Options pages 201, 203 to 204 for additional details.

| Option | Skewed ¹ | Sloped Seat ² | Sloped / Skewed ^{1,2} | Sloped Top Flange ³ | Top Flange Offset | | Saddle | Ridge |
|-----------------|--|---|---|--|--|---------------------------------------|---|---|
| Range | 1° to 84° | 1° to 45° | See Sloped Seat and Skewed | 0° to 35° | --- | | --- | 0° to 45° |
| Allowable Loads | 100% of table load | 100% of table load | 100% of table load | Reduce allowable table loads using straight-line interpolation | Hanger Width 3-1/2" or less 3-9/16" to 5-1/2" 5-9/16" to 7-1/2" | % of table load: 60% 75% 85% | 100% of table load per side | 100% of table load |
| Ordering | Add SK, angle required, and right (R) or left (L), to product number. Ex. SW212-SK45R | Add SL, slope required, and up (U) or down (D), to product number. Ex. SW212-SL30D | See Sloped Seat and Skewed. Ex. SW212-SK45RSL30D | Add SF, angle required, and right (R) or left (L), to product number. Ex. SW212-SF30L | Add OS, and right (R) or left (L), to product number. Ex. SW212-OSL | | Add SA, and saddle width required to product number. Ex. SW212-SA=5-1/2" | Add DA, angle required to product number. Ex. SW212-DA30 |

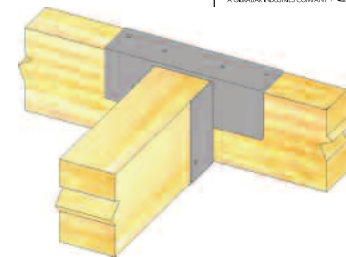
- 1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
- 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
- 3) Sloped top flanges with greater than 15° may have additional header nails.



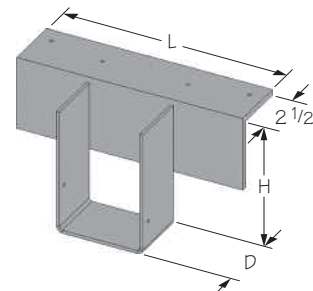
Typical SW210 installation



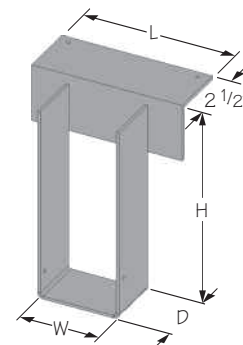
SW210



Typical KHW46 installation



KHW46



SWH410

LIGHT GAUGE PURLIN HANGERS – HL SERIES

These top mount hangers are designed for supporting floor joists or 2x purlins. The top mount style allows builders to drop in joists or purlins quickly.

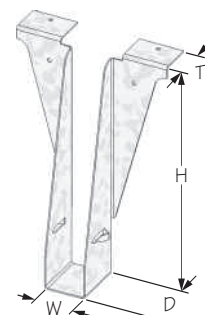
Materials: 18 gauge

Finish: G90 galvanizing

Codes: ESR-1280, FL11664, LA City RR 25749

Installation:

- Use all specified fasteners. See Product Notes, page 10.



HL210

| Beam/ Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | | Fastener Schedule ^{3,4,5,6} | | | | | Allowable Loads (Lbs.) ^{7,8} | | | | Code Ref. |
|---------------------|------------------|-----------|----------------|------------|--------|--------|-------|--------|--------------------------------------|------|-------|-----|-------------|---------------------------------------|--------------|-----------------------|------|--------------|
| | | | | W | H | D | L | TF | Header | | Joist | | DF-L / SP | | | | | |
| | | | | | | | | | Qty | | Type | Qty | Type | Floor 100% | Roof 115% | Uplift ^{1,2} | | |
| | | | | | | | | | Top | Face | | | | | | 125% | 160% | |
| 2 x 4 | HDO24 | HU24TF | 12 | 1-9/16 | 3-7/16 | 2-1/4 | --- | 2-1/2 | 4 | 2 | 16d | 2 | 10d x 1-1/2 | 2170 | 2170 | 2170 | 315 | 5, F10 |
| 2 x 6 | HL26 | JB26 | 18 | 1-9/16 | 5-3/8 | 1-1/2 | --- | 1-5/16 | 2 | 4 | 16d | --- | --- | 1270 | 1270 | 1270 | --- | 2, F20, R12 |
| | KLB26 | LB26 | 14 | 1-9/16 | 5-3/8 | 1-3/4 | --- | 1-3/8 | 2 | 4 | 16d | 2 | 10d x 1-1/2 | 1365 | 1365 | 1365 | 365 | 2, F20, R12 |
| | SW26 | W26 | 12 | 1-9/16 | 5-3/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | HDO26 | HU26TF | 12 | 1-9/16 | 5-3/8 | 2-1/4 | --- | 2-1/2 | 4 | 6 | 16d | 4 | 10d x 1-1/2 | 2590 | 2615 | 2615 | 770 | 5, F10 |
| 2 x 8 | HL28 | JB28 | 18 | 1-9/16 | 7-5/16 | 1-3/4 | --- | 1-5/16 | 2 | 4 | 16d | --- | --- | 1590 | 1590 | 1590 | --- | 2, F20, R12 |
| | KLB28 | LB28 | 14 | 1-9/16 | 7-1/4 | 1-3/4 | --- | 1-3/8 | 2 | 4 | 16d | 2 | 10d x 1-1/2 | 1365 | 1365 | 1365 | 365 | 2, F20, R12 |
| | SW28 | W28 | 12 | 1-9/16 | 7-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | HDO28 | HU28TF | 12 | 1-9/16 | 7-1/8 | 2-1/4 | --- | 2-1/2 | 4 | 6 | 16d | 4 | 10d x 1-1/2 | 2590 | 2660 | 2710 | 755 | 5, F10 |
| 2 x 10 | HL210 | JB210 | 18 | 1-9/16 | 9-5/16 | 2 | --- | 1-5/16 | 2 | 4 | 16d | --- | --- | 1590 | 1590 | 1590 | --- | 2, F20, R12 |
| | KLB210 | LB210 | 14 | 1-9/16 | 9-1/4 | 2 | --- | 1-3/8 | 2 | 4 | 16d | 2 | 10d x 1-1/2 | 1365 | 1365 | 1365 | 365 | 2, F20, R12 |
| | SW210 | W210 | 12 | 1-9/16 | 9-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | HDO210 | HU210TF | 12 | 1-9/16 | 9-1/8 | 2-1/4 | --- | 2-1/2 | 4 | 8 | 16d | 4 | 10d x 1-1/2 | 2590 | 2660 | 2710 | 725 | 5, F10 |
| 2 x 12 | HL212 | JB212 | 18 | 1-9/16 | 11-1/4 | 2-5/16 | --- | 1-5/16 | 2 | 4 | 16d | --- | --- | 1590 | 1590 | 1590 | --- | 2, F20, R12 |
| | KLB212 | LB212 | 14 | 1-9/16 | 11-1/8 | 2 | --- | 1-3/8 | 2 | 4 | 16d | 2 | 10d x 1-1/2 | 1365 | 1365 | 1365 | 365 | 2, F20, R12 |
| | SW212 | W212 | 12 | 1-9/16 | 11-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | HDO212 | HU212TF | 12 | 1-9/16 | 11 | 2-1/4 | --- | 2-1/2 | 4 | 10 | 16d | 6 | 10d x 1-1/2 | 2355 | 2355 | 2355 | 1150 | 5, F10 |
| 2 x 14 | HL214 | JB214 | 18 | 1-9/16 | 13-1/8 | 2 | --- | 2-1/2 | 2 | 6 | 16d | 2 | 10d x 1-1/2 | 1590 | 1590 | 1590 | 360 | 2, F20, R12 |
| | KLB214 | LB214 | 14 | 1-9/16 | 13-1/8 | 2 | --- | 1-1/2 | 2 | 2 | 16d | 2 | 10d x 1-1/2 | 1365 | 1365 | 1365 | 365 | 2, F20, R12 |
| | SW214 | W214 | 12 | 1-9/16 | 13-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | HDO214 | HU214TF | 12 | 1-9/16 | 13 | 2-1/4 | --- | 2-1/2 | 4 | 12 | 16d | 6 | 10d x 1-1/2 | 2830 | 2935 | 3010 | 1050 | 5, F10 |
| 2 x 16 | KLB216 | LB216 | 14 | 1-9/16 | 15-1/8 | 2 | --- | 1-1/2 | 2 | 2 | 16d | 2 | 10d x 1-1/2 | 1365 | 1365 | 1365 | 365 | 2, F20, R12 |
| | SW216 | W216 | 12 | 1-9/16 | 15-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | HDO216 | HU216TF | 12 | 1-9/16 | 15 | 2-1/4 | --- | 2-1/2 | 4 | 14 | 16d | 8 | 10d x 1-1/2 | 3070 | 3215 | 3310 | 1535 | 5, F10 |
| 3 x 4 | HDO34 | HU34TF | 12 | 2-9/16 | 3-7/16 | 2-1/2 | --- | 2-1/2 | 4 | 4 | 16d | 2 | 10d x 1-1/2 | 2665 | 2665 | 2665 | 315 | 5, F10 |
| 3 x 6 | SW36 | W36 | 12 | 2-9/16 | 5-3/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | HDO36 | HU36TF | 12 | 2-9/16 | 5-3/8 | 2-1/2 | --- | 2-1/2 | 4 | 6 | 16d | 4 | 10d x 1-1/2 | 3010 | 3010 | 3010 | 770 | 5, F10 |
| 3 x 8 | SW38 | W38 | 12 | 2-9/16 | 7-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | KB38 | B38 | 12 | 2-9/16 | 7-1/4 | 2 | --- | 2-1/2 | 2 | 2 | NA20D | 2 | 10d x 1-1/2 | 2420 | 2420 | 2420 | 385 | 2, F20, R12 |
| | HDO38 | HU38TF | 12 | 2-9/16 | 7-1/8 | 2-1/2 | --- | 2-1/2 | 4 | 8 | 16d | 4 | 10d x 1-1/2 | 3605 | 3605 | 3605 | 755 | 5, F10 |
| 3 x 10 | SW310 | W310 | 12 | 2-9/16 | 9-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 2315 | 2315 | 2315 | --- | 8, F14, R9 |
| | KB310 | B310 | 12 | 2-9/16 | 9-1/4 | 2 | --- | 2-1/2 | 2 | 2 | NA20D | 2 | 10d x 1-1/2 | 2420 | 2420 | 2420 | 385 | 2, F20, R12 |
| | HDO310 | HU310TF | 12 | 2-9/16 | 9-1/8 | 2-1/2 | --- | 2-1/2 | 4 | 10 | 16d | 6 | 10d x 1-1/2 | 4165 | 4165 | 4165 | 1150 | 5, F10 |
| 3 x 12 | SWH312 | WNP312 | 7/12 | 2-9/16 | 11-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KB312 | B312 | 12 | 2-9/16 | 11-1/8 | 2-3/8 | --- | 2-1/2 | 2 | 2 | NA20D | 2 | 10d x 1-1/2 | 2420 | 2420 | 2420 | 385 | 2, F20, R12 |
| | HDO312 | HU312TF | 12 | 2-9/16 | 11 | 2-1/2 | --- | 2-1/2 | 4 | 12 | 16d | 6 | 10d x 1-1/2 | 4475 | 4475 | 4475 | 1150 | 5, F10 |
| 3 x 14 | SWH314 | WNP314 | 7/12 | 2-9/16 | 13-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KB314 | B314 | 12 | 2-9/16 | 13-1/8 | 2-3/8 | --- | 2-1/2 | 2 | 2 | NA20D | 2 | 10d x 1-1/2 | 2420 | 2420 | 2420 | 385 | 2, F20, R12 |
| | HDO314 | HU314TF | 12 | 2-9/16 | 13 | 2-1/2 | --- | 2-1/2 | 4 | 14 | 16d | 8 | 10d x 1-1/2 | 4475 | 4475 | 4475 | 1315 | 5, F10 |
| 3 x 16 | SWH316 | WNP316 | 7/12 | 2-9/16 | 15-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d x 1-1/2 | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KB316 | B316 | 12 | 2-9/16 | 15-1/8 | 2-3/8 | --- | 2-1/2 | 2 | 2 | NA20D | 2 | 10d x 1-1/2 | 2420 | 2420 | 2420 | 385 | 2, F20, R12 |
| | HDO316 | HU316TF | 12 | 2-9/16 | 15 | 2-1/2 | --- | 2-1/2 | 4 | 16 | 16d | 8 | 10d x 1-1/2 | 4865 | 5010 | 5105 | 1535 | 5, F10 |
| (2) 2 x 4 | HDO24-2 | HU24-2TF | 12 | 3-1/8 | 3-7/16 | 2-1/4 | --- | 2-1/2 | 4 | 4 | 16d | 2 | 10d | 2445 | 2445 | 2445 | 405 | 5, F10 |
| (2) 2 x 6 | SWH26-2 | WNP26-2 | 7/12 | 3-1/8 | 5-3/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | HDO26-2 | HU26-2TF | 12 | 3-1/8 | 5-3/8 | 2-1/4 | --- | 2-1/2 | 4 | 6 | 16d | 4 | 10d | 3050 | 3050 | 3050 | 815 | 5, F10 |
| (2) 2 x 8 | SWH28-2 | WNP28-2 | 7/12 | 3-1/8 | 7-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | HDO28-2 | HU28-2TF | 12 | 3-1/8 | 7-1/8 | 2-1/4 | --- | 2-1/2 | 4 | 8 | 16d | 4 | 10d | 3825 | 3825 | 3825 | 815 | 5, F10 |
| (2) 2 x 10 | SWH210-2 | WNP210-2 | 7/12 | 3-1/8 | 9-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | HDO210-2 | HU210-2TF | 12 | 3-1/8 | 9-1/8 | 2-1/2 | --- | 2-1/2 | 4 | 10 | 16d | 6 | 10d | 4565 | 4565 | 4565 | 1220 | 5, F10 |

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Hangers

- 1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 - 2) HL, KHW, SW, and SWH products do not provide uplift resistance, except for the HL214.
 - 3) Minimum nail embedment shall be 1-1/2" for 10d nails, 1-5/8" for 16d nails, 2" for NA20D nails, and 2-1/2"
 - 4) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 - 5) NA20D nails are 6 gauge (0.192" diameter) by 2-1/2" long and are included with KB, KHB, KHW, and HI
 - 6) NA25 nails are 3 gauge (0.250" diameter) by 3" long and are included with KHKB hangers.
 - 7) KB, KHB, KHKB, and KLB load values are based on 625 psi perpendicular to grain loading.
 - 8) KHW Glulam load values are based on 560 psi perpendicular to grain loading.
- New products or updated product information are designated in red.

continued on next page

TOP MOUNT HANGER CHARTS CONTINUED



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| Beam/ Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | | Fastener Schedule ^{3,4,5,6} | | | | Allowable Loads (Lbs.) ^{7,8} | | | | Code Ref. | |
|---------------------|------------------|-----------|----------------|------------|--------|-------|-------|-------|--------------------------------------|------|-------|------|---------------------------------------|------|------|-----------------------|--------------|-------------|
| | | | | W | H | D | L | TF | Header | | Joist | | DF-L / SP | | | | | |
| | | | | | | | | | Qty | Type | Qty | Type | Floor | Roof | | Uplift ^{1,2} | | |
| 100% | 115% | 125% | 160% | | | | | | | | | | | | | | | |
| (2) 2 x 12 | SWH212-2 | WNP212-2 | 7/12 | 3-1/8 | 11-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | HDO212-2 | HU212-2TF | 12 | 3-1/8 | 11 | 2-1/2 | --- | 2-1/2 | 4 | 12 | 16d | 6 | 10d | 4880 | 5230 | 5465 | 1220 | 5, F10 |
| (2) 2 x 14 | SWH214-2 | WNP214-2 | 7/12 | 3-1/8 | 13-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | HDO214-2 | HU214-2TF | 12 | 3-1/8 | 13 | 2-1/2 | --- | 2-1/2 | 4 | 14 | 16d | 8 | 10d | 5175 | 5410 | 5410 | 1625 | 5, F10 |
| (2) 2 x 16 | SWH216-2 | WNP216-2 | 7/12 | 3-1/8 | 15-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | HDO216-2 | HU216-2TF | 12 | 3-1/8 | 15 | 2-1/2 | --- | 2-1/2 | 4 | 16 | 16d | 8 | 10d | 5475 | 5855 | 5960 | 1625 | 5, F10 |
| 4 x 4 | HDO44 | HU44TF | 12 | 3-9/16 | 3-7/16 | 2-1/4 | --- | 2-1/2 | 4 | 4 | 16d | 2 | 10d | 2445 | 2445 | 2445 | 405 | 5, F10 |
| 4 x 6 | SW46 | W46 | 12 | 3-9/16 | 5-3/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 2520 | 2520 | 2520 | --- | 8, F14, R9 |
| | HDO46 | HU46TF | 12 | 3-9/16 | 5-3/8 | 2-1/4 | --- | 2-1/2 | 4 | 6 | 16d | 4 | 10d | 3050 | 3050 | 3050 | 815 | 5, F10 |
| | KHW46 | HW46 | 3/10 | 3-9/16 | 5-3/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 4 x 8 | SW48 | W48 | 12 | 3-9/16 | 7-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 2520 | 2520 | 2520 | --- | 8, F14, R9 |
| | KB48 | B48 | 12 | 3-9/16 | 7-1/4 | 2 | --- | 2-1/2 | 2 | 2 | NA20D | 2 | NA20D | 2420 | 2420 | 2420 | 560 | 2, F20, R12 |
| | HDO48 | HU48TF | 12 | 3-9/16 | 7-1/8 | 2-1/4 | --- | 2-1/2 | 4 | 8 | 16d | 4 | 10d | 3825 | 3825 | 3825 | 815 | 5, F10 |
| | KHW48 | HW48 | 3/10 | 3-9/16 | 7-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 4 x 10 | SW410 | W410 | 12 | 3-9/16 | 9-1/8 | 2-1/2 | 6-1/2 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 2520 | 2520 | 2520 | --- | 8, F14, R9 |
| | KB410 | B410 | 12 | 3-9/16 | 9-1/4 | 2-3/8 | --- | 2-1/2 | 2 | 2 | NA20D | 2 | NA20D | 2420 | 2420 | 2420 | 560 | 2, F20, R12 |
| | HDO410 | HU410TF | 12 | 3-9/16 | 9-1/8 | 2-1/4 | --- | 2-1/2 | 4 | 10 | 16d | 6 | 10d | 4565 | 4565 | 4565 | 1220 | 5, F10 |
| | SWH410 | --- | 7/12 | 3-9/16 | 9-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KHW410 | HW410 | 3/10 | 3-9/16 | 9-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 4 x 12 | KB412 | B412 | 12 | 3-9/16 | 11-1/8 | 2-3/8 | --- | 2-1/2 | 4 | 2 | NA20D | 2 | NA20D | 2870 | 2870 | 2870 | 560 | 2, F20, R12 |
| | KHB412 | --- | 12 | 3-9/16 | 11-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA20D | 4 | NA20D | 4265 | 4265 | 4265 | 1120 | 2, F20, R12 |
| | HDO412 | HU412TF | 12 | 3-9/16 | 11 | 2-1/4 | --- | 2-1/2 | 4 | 12 | 16d | 6 | 10d | 4880 | 5230 | 5465 | 1220 | 5, F10 |
| | KHHB412 | HHB412 | 7 | 3-9/16 | 11-1/8 | 3 | --- | 2-1/2 | 2 | 2 | NA25 | 2 | NA25 | 4260 | 4335 | 4385 | 815 | 2, F20, R12 |
| | SWH412 | WNP412 | 7/12 | 3-9/16 | 11-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KHW412 | HW412 | 3/10 | 3-9/16 | 11-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 4 x 14 | KB414 | B414 | 12 | 3-9/16 | 13-1/8 | 2-3/8 | --- | 2-1/2 | 4 | 2 | NA20D | 2 | NA20D | 2870 | 2870 | 2870 | 560 | 2, F20, R12 |
| | KHB414 | --- | 12 | 3-9/16 | 13-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA20D | 4 | NA20D | 4265 | 4265 | 4265 | 1120 | 2, F20, R12 |
| | HDO414 | HU414TF | 12 | 3-9/16 | 13 | 2-1/2 | --- | 2-1/2 | 4 | 14 | 16d | 8 | 10d | 5175 | 5410 | 5410 | 1625 | 5, F10 |
| | KHHB414 | HHB414 | 7 | 3-9/16 | 13-1/8 | 3 | --- | 2-1/2 | 2 | 4 | NA25 | 4 | NA25 | 4765 | 4920 | 5020 | 1625 | 2, F20, R12 |
| | SWH414 | WNP414 | 7/12 | 3-9/16 | 13-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KHW414 | HW414 | 3/10 | 3-9/16 | 13-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 4 x 16 | KB416 | B416 | 12 | 3-9/16 | 15-1/8 | 2-3/8 | --- | 2-1/2 | 4 | 2 | NA20D | 2 | NA20D | 2870 | 2870 | 2870 | 560 | 2, F20, R12 |
| | KHB416 | --- | 12 | 3-9/16 | 15-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA20D | 4 | NA20D | 4265 | 4265 | 4265 | 1120 | 2, F20, R12 |
| | HDO416 | HU416TF | 12 | 3-9/16 | 15 | 2-1/2 | --- | 2-1/2 | 4 | 16 | 16d | 8 | 10d | 5475 | 5915 | 6210 | 1625 | 5, F10 |
| | KHHB416 | HHB416 | 7 | 3-9/16 | 15-1/8 | 3 | --- | 2-1/2 | 2 | 4 | NA25 | 4 | NA25 | 4765 | 4920 | 5020 | 1625 | 2, F20, R12 |
| | SWH416 | WNP416 | 7/12 | 3-9/16 | 15-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KHW416 | HW416 | 3/10 | 3-9/16 | 15-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| (3) 2 x 10 | HDO210-3 | HU210-3TF | 12 | 4-11/16 | 9-1/8 | 2-1/2 | --- | 2-1/2 | 4 | 10 | 16d | 6 | 16d | 4565 | 4565 | 4565 | 1430 | 5, F10 |
| (3) 2 x 12 | HDO212-3 | HU212-3TF | 12 | 4-11/16 | 11 | 2-1/2 | --- | 2-1/2 | 4 | 12 | 16d | 6 | 16d | 4880 | 5230 | 5465 | 1430 | 5, F10 |

- 1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 - 2) HL, KHW, SW, and SWH products do not provide uplift resistance, except for the HL214.
 - 3) Minimum nail embedment shall be 1-1/2" for 10d nails, 1-5/8" for 16d nails, 2" for NA20D nails, and 2-1/2" for NA25 nails.
 - 4) 10d x 1-1/2" nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 - 5) NA20D nails are 6 gauge (0.192" diameter) by 2-1/2" long and are included with KB, KHB, KHW, and HHDO hangers.
 - 6) NA25 nails are 3 gauge (0.250" diameter) by 3" long and are included with KHHB hangers.
 - 7) KB, KHB, KHHB, and KLB load values are based on 625 psi perpendicular to grain loading.
 - 8) KHW Glulam load values are based on 560 psi perpendicular to grain loading.
- New products or updated product information are designated in red.

continued on next page

| Beam/ Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | | Fastener Schedule ^{2,3,4,5} | | | | | Allowable Loads (Lbs.) ^{6,7} | | | | Code Ref. |
|---------------------------|------------------|-----------|----------------|------------|---------|-------|------|-------|--------------------------------------|-----|-------|-------|-------------|---------------------------------------|------|------|---------------------|--------------|
| | | | | W | H | D | L | TF | Header | | | Joist | | DF-L / SP | | | | |
| | | | | | | | | | Qty | | Type | Qty | Type | Floor | Roof | | Uplift ¹ | |
| | | | | 100% | 115% | 125% | 160% | | | | | | | | | | | |
| (3) 2 x 14 | HDO214-3 | HU214-3TF | 12 | 4-11/16 | 13 | 2-1/2 | --- | 2-1/2 | 4 | 14 | 16d | 8 | 16d | 5175 | 5410 | 5410 | 1710 | 5, F10 |
| (3) 2 x 16 | HDO216-3 | HU216-3TF | 12 | 4-11/16 | 15 | 2-1/2 | --- | 2-1/2 | 4 | 16 | 16d | 8 | 16d | 5475 | 5915 | 6210 | 1905 | 5, F10 |
| 6 x 6 | HDO66 | HU66TF | 12 | 5-1/2 | 5-3/8 | 2-1/2 | --- | 2-1/2 | 4 | 6 | 16d | 4 | 16d | 3050 | 3050 | 3050 | 955 | 5, F10 |
| | SWH66 | WNP66 | 7/12 | 5-1/2 | 5-3/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KHW66 | HW66 | 3/10 | 5-1/2 | 5-3/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 6 x 8 | HDO68 | HU68TF | 12 | 5-1/2 | 7-1/8 | 2-1/2 | --- | 2-1/2 | 4 | 8 | 16d | 4 | 16d | 3825 | 3825 | 3825 | 955 | 5, F10 |
| | KHHB68 | HHB68 | 7 | 5-1/2 | 7-1/4 | 3 | --- | 2-1/2 | 2 | 2 | NA25 | 2 | NA25 | 4260 | 4335 | 4385 | 815 | 2, F20, R12 |
| | SWH68 | WNP68 | 7/12 | 5-1/2 | 7-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KHW68 | HW68 | 3/10 | 5-1/2 | 7-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 6 x 10 | KB610 | B610 | 12 | 5-1/2 | 9-1/4 | 2-3/8 | --- | 2-1/2 | 4 | 6 | NA20D | 2 | NA20D | 3495 | 3495 | 3495 | 560 | 2, F20, R12 |
| | HDO610 | HU610TF | 12 | 5-1/2 | 9-1/8 | 2-1/2 | --- | 2-1/2 | 4 | 10 | 16d | 6 | 16d | 4565 | 4565 | 4565 | 1430 | 5, F10 |
| | KHHB610 | HHB610 | 7 | 5-1/2 | 9-1/4 | 3 | --- | 2-1/2 | 2 | 2 | NA25 | 2 | NA25 | 4260 | 4335 | 4385 | 815 | 2, F20, R12 |
| | SWH610 | WNP610 | 7/12 | 5-1/2 | 9-1/8 | 2-1/2 | 7 | 2-1/2 | 2 | --- | 10d | 2 | 10d | 3305 | 3305 | 3305 | --- | 8, F14, R9 |
| | KHW610 | HW610 | 3/10 | 5-1/2 | 9-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 6 x 12 | KB612 | B612 | 12 | 5-1/2 | 11-1/8 | 2-3/8 | --- | 2-1/2 | 4 | 6 | NA20D | 2 | NA20D | 3495 | 3495 | 3495 | 560 | 2, F20, R12 |
| | HDO612 | HU612TF | 12 | 5-1/2 | 11 | 2-1/2 | --- | 2-1/2 | 4 | 12 | 16d | 6 | 16d | 4880 | 5230 | 5465 | 1430 | 5, F10 |
| | KHHB612 | HHB612 | 7 | 5-1/2 | 11-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA25 | 6 | NA25 | 5275 | 5505 | 5655 | 2440 | 2, F20, R12 |
| | KHW612 | HW612 | 3/10 | 5-1/2 | 11-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 6 x 14 | KB614 | B614 | 12 | 5-1/2 | 13-1/8 | 2-3/8 | --- | 2-1/2 | 4 | 6 | NA20D | 2 | NA20D | 3495 | 3495 | 3495 | 560 | 2, F20, R12 |
| | HDO614 | HU614TF | 12 | 5-1/2 | 13 | 2-1/2 | --- | 2-1/2 | 4 | 14 | 16d | 8 | 16d | 5175 | 5410 | 5410 | 1710 | 5, F10 |
| | KHHB614 | HHB614 | 7 | 5-1/2 | 13-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA25 | 6 | NA25 | 5275 | 5505 | 5655 | 2440 | 2, F20, R12 |
| | KHW614 | HW614 | 3/10 | 5-1/2 | 13-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 6 x 16 | KB616 | B616 | 12 | 5-1/2 | 15-1/8 | 2-3/8 | --- | 2-1/2 | 4 | 6 | NA20D | 2 | NA20D | 3495 | 3495 | 3495 | 560 | 2, F20, R12 |
| | HDO616 | HU616TF | 12 | 5-1/2 | 15 | 2-1/2 | --- | 2-1/2 | 4 | 16 | 16d | 8 | 16d | 5475 | 5915 | 6210 | 1905 | 5, F10 |
| | KHHB616 | HHB616 | 7 | 5-1/2 | 15-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA25 | 6 | NA25 | 5275 | 5505 | 5655 | 2440 | 2, F20, R12 |
| | KHW616 | HW616 | 3/10 | 5-1/2 | 15-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 8 x 6 | KHW86 | HW86 | 3/10 | 7-1/2 | 5-3/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 8 x 8 | KHW88 | HW88 | 3/10 | 7-1/2 | 7-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 8 x 10 | KHW810 | HW810 | 3/10 | 7-1/2 | 9-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 8 x 12 | KHHB812 | HHB812 | 7 | 7-1/2 | 11-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA25 | 6 | NA25 | 5275 | 5505 | 5655 | 2440 | 2, F20, R12 |
| | KHW812 | HW812 | 3/10 | 7-1/2 | 11-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 8 x 14 | KHHB814 | HHB814 | 7 | 7-1/2 | 13-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA25 | 6 | NA25 | 5275 | 5505 | 5655 | 2440 | 2, F20, R12 |
| | KHW814 | HW814 | 3/10 | 7-1/2 | 13-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| 8 x 16 | KHHB816 | HHB816 | 7 | 7-1/2 | 15-1/8 | 3 | --- | 2-1/2 | 4 | 6 | NA25 | 6 | NA25 | 5275 | 5505 | 5655 | 2440 | 2, F20, R12 |
| | KHW816 | HW816 | 3/10 | 7-1/2 | 15-1/8 | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5335 | 5335 | 5335 | --- | 8, F14, R9 |
| Glulam Sizes ⁸ | | | | | | | | | | | | | | | | | | |
| 2-1/2 glulam | KHW26 | --- | 3/10 | 2-11/16 | specify | 4 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d x 1-1/2 | 5295 | 5295 | 5295 | --- | 8, F14, R9 |
| 3-1/8 glulam | KHW3 | HW3.25 | 3/10 | 3-1/4 | specify | 3 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5295 | 5295 | 5295 | --- | 8, F14, R9 |
| 5-1/8 glulam | KHW5 | HW5.25 | 3/10 | 5-1/4 | specify | 2-1/2 | 10 | 2-1/2 | 4 | --- | NA20D | 2 | 10d | 5295 | 5295 | 5295 | --- | 8, F14, R9 |

- 1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Minimum nail embedment shall be 1-1/2" for 10d nails, 1-5/8" for 16d nails, 2" for NA20D nails, and 2-1/2" for NA25 nails.
- 3) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 4) NA20D nails are 6 gauge (0.192" diameter) by 2-1/2" long and are included with KB, KHB, KHW, and HHDO hangers.
- 5) NA25 nails are 3 gauge (0.250" diameter) by 3" long and are included with KHHB hangers.
- 6) KB, KHB, KHHB, and KLB load values are based on 625 psi perpendicular to grain loading.
- 7) KHW Glulam load values are based on 560 psi perpendicular to grain loading.
- 8) Consult USP for additional Glulam sizes.

New products or updated product information are designated in red.

MULTI-PURPOSE JOIST HANGERS – JH SERIES

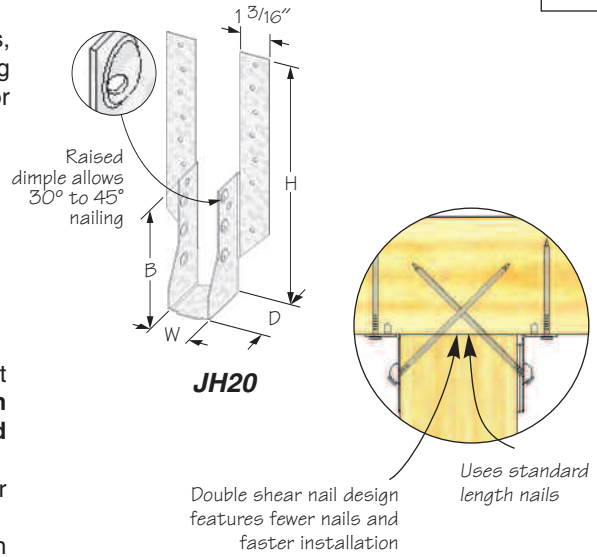


These strap-style hangers are designed to support trusses, joists, or purlins. JH models may be bent along the flange allowing builders to use the hangers in top mount, face mount, or combination applications.

Materials: 18 gauge
Finish: G90 galvanizing
Codes: ESR-2104, FL820, LA City RR 25745

Installation:

- Use all specified fasteners. See Product Notes, page 10.
- Joist nails must be driven at a 30° to 45° angle through the joist or truss into the header to achieve listed loads. **Standard length “double shear” nails must be used to achieve listed load values.**
- If installing in top mount configuration, field bend top flange over header.
- 16d sinkers (9 gauge x 3 1/4”) may be used where 10d common are specified with no load reduction.



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| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Application | Fastener Schedule ^{2,3} | | | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|----------------|---------------|----------|-------------|------------|---------|-------|-------|-------------|----------------------------------|------|-------|------|-----------|------|------------------------|---------------------|------|------|------------|
| | | | | W | H | D | B | | Header | | Joist | | DF-L / SP | | | | | | |
| | | | | | | | | | Qty | Nail | Qty | Nail | Floor | Roof | | Uplift ¹ | | | |
| | | | | | | | | | | | | | | 100% | 115% | | 125% | 160% | |
| 2 x 6 - 12 | JH20 | --- | 18 | 1-9/16 | 10-1/16 | 2-1/4 | 5-1/8 | 2 x 6 | 2 | 10d | 4 | 10d | 6 | 10d | 1900 | 2060 | 2165 | 1285 | 8, F14, R9 |
| | | | | | | | | 2 x 8 | 2 | 10d | 8 | 10d | 6 | 10d | 2540 | 2765 | 2900 | 1285 | |
| | | | | | | | | 2 x 10 | 2 | 10d | 12 | 10d | 6 | 10d | 2270 | 2565 | 2760 | 1285 | |
| | | | | | | | | 2 x 12 | --- | --- | 14 | 10d | 6 | 10d | 2185 | 2510 | 2730 | 1285 | |
| (2) 2 x 6 - 12 | JH30 | --- | 18 | 3-1/4 | 10-3/16 | 2-1/4 | 4-1/4 | 2 x 6 | 2 | 10d | 6 | 10d | 6 | 10d | 2220 | 2410 | 2540 | 1285 | |
| | | | | | | | | 2 x 8 | 2 | 10d | 10 | 10d | 6 | 10d | 2855 | 2900 | 2900 | 1285 | |
| | | | | | | | | 2 x 10 | 2 | 10d | 14 | 10d | 6 | 10d | 2590 | 2900 | 2900 | 1285 | |
| | | | | | | | | 2 x 12 | --- | --- | 16 | 10d | 6 | 10d | 2410 | 2775 | 2900 | 1285 | |

1) Uplift Loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 2) Nails must be driven at a 30° to 45° angle through the joist or truss into header to achieve the table loads.
 3) 16d sinkers (9 gauge x 3-1/4" long) may be used where 10d commons are specified with no reduction in load.
 New products or updated product information are designated in red.

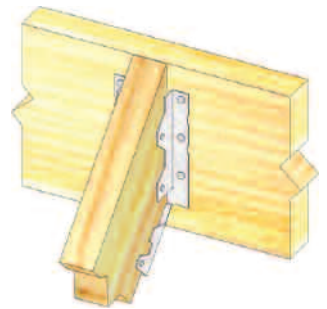
LIGHT SLOPE HANGERS – LS SERIES

A field-adjustable seat gives the LS hanger application flexibility. The LS hanger slopes from 0° to 30° down (0 to 7:12 pitch down).

Materials: 18 gauge
Finish: G90 galvanizing
Codes: ESR-2576, FL817

Installation:

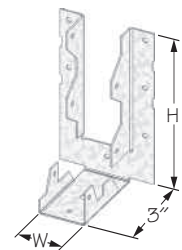
- Use all specified fasteners. See Product Notes, page 10.
- The LS can be field adjusted to slopes from 0° to 30° down.



Typical LS268 installation

| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | Fastener Schedule ^{2,3} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|------------|---------------|----------|-------------|------------|-------|----------------------------------|------|-------|-------------|------------------------|------|------|---------------------|-----------|
| | | | | W | H | Header | | Joist | | DF-L / SP | | | | |
| | | | | | | Qty | Type | Qty | Type | Floor | Roof | | Uplift ¹ | |
| | | | | | | | | | | | 100% | 115% | | |
| 2 x 6 - 8 | LS268 | --- | 18 | 1-9/16 | 5-1/2 | 7 | 16d | 7 | 10d x 1-1/2 | 960 | 1105 | 1170 | 675 | 11, F12 |
| 2 x 10 | LS210 | --- | 18 | 1-9/16 | 7-7/8 | 9 | 16d | 9 | 10d x 1-1/2 | 1235 | 1370 | 1370 | 1035 | |

1) Uplift loads are increased 60% for wind or seismic loads; no further increase shall be permitted.
 2) Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
 3) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.



LS268

Hangers

SKH – Standard 45° skew hanger allows for a 40° to 50° skew range, without hanger modification.

SKHH – For heavier applications.

Materials: 14 or 16 gauge

Finish: G90 galvanizing; SKH26L/R-GC & SKH210L/R-GC – Gold Coat

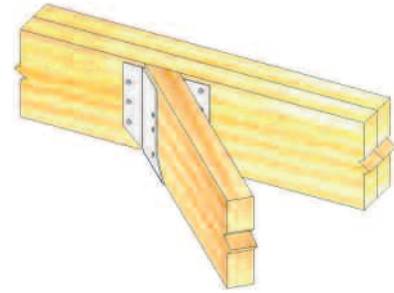
Options: SKH26L/R, SKH28L/R, & SKH210L/R are available in Triple Zinc. To order, add **TZ** to stock number, as in **SKH26L-TZ**.

SKH26L/R, & SKH210L/R are available in Stainless Steel. To order, add **SS** to stock number, as in **SKH26L-SS**.

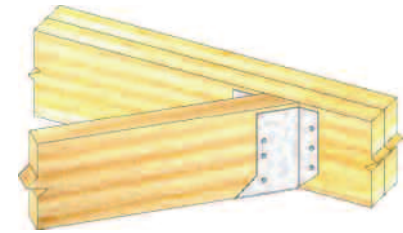
Codes: ESR-1781, FL815,
Dade County, FL 07-0214.20, FL570

Installation:

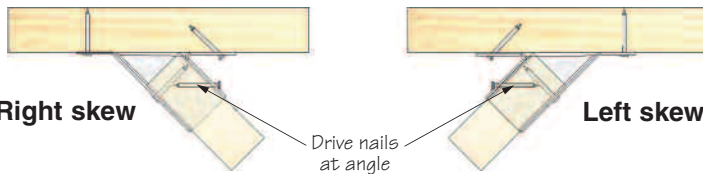
- Use all specified fasteners. See Product Notes, page 10.
- The hangers listed are for standard sizes and will accommodate a 40° to 50° skew range.
- Most sizes do not require a miter cut for installation. Refer to chart footnote identified with an asterisk.
- Illustrations show left and right skews. (**SKH_L** = skewed left; **SKH_R** = skewed right)
- For I-Joist installations, web stiffeners are required.
- Refer to illustration for staggered I-Joist application for double 2", 2⁵/₁₆", and 2¹/₂" models.
- For double I-Joist installations, web stiffeners between I-Joists are required.



SKH26R
Right skew



SKH26L
Left skew



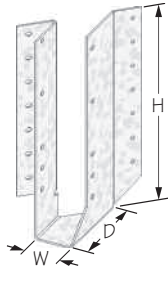
AVAILABLE IN
GOLD
COAT

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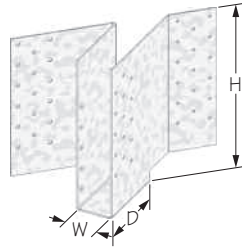
| Beam / Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | Fastener Schedule ^{2,3} | | | | Allowable Loads (Lbs.) | | | | | | Code Ref. | | |
|------------------------------|---------------|--------------------------|-------------|------------|----------|-------|----------------------------------|--------|-------|-------------|------------------------|------|---------------------|-------|-------|---------------------|-----------|------|----------------|
| | | | | W | H | D | Header | | Joist | | DF-L / SP | | | | S-P-F | | | | |
| | | | | | | | Qty | Type | Qty | Type | Floor | Roof | Uplift ¹ | Floor | Roof | Uplift ¹ | | | |
| 100% | 115% | 125% | 160% | 100% | 115% | 125% | 160% | | | | | | | | | | | | |
| 2 x 4 | SKH24L | SUR/L24 | 16 | 1-9/16 | 3-1/4 | 1-7/8 | 4 | 16d | 4 | 10d x 1-1/2 | 510 | 510 | 510 | 565 | 475 | 510 | 510 | 565 | 5, F10 |
| 2 x 6 - 8 | SKH26L | SUR/L26 | 16 | 1-9/16 | 5-1/4 | 1-7/8 | 6 | 16d | 6 | 10d x 1-1/2 | 830 | 890 | 890 | 1085 | 715 | 820 | 890 | 930 | 5, F6, F10, D3 |
| | 6 | N16C-GC | | | | | 6 | N10-GC | | | | | | | | | | | |
| 2 x 8 - 10 - 12 | SKH28L | --- | 16 | 1-9/16 | 7-1/4 | 1-7/8 | 10 | 16d | 8 | 10d x 1-1/2 | 1380 | 1465 | 1465 | 1360 | 1190 | 1370 | 1465 | 1240 | |
| 2 x 10 - 12 - 14 | SKH210L | SUR/L210 | 16 | 1-9/16 | 9-1/4 | 1-7/8 | 14 | 16d | 10 | 10d x 1-1/2 | 1790 | 1790 | 1790 | 1565 | 1665 | 1790 | 1790 | 1550 | |
| | 14 | N16C-GC | | | | | 10 | N10-GC | | | | | | | | | | | |
| 1-1/2 x 11-1/4 - 18 | SKH1524L | SUR/L214 | 16 | 1-9/16 | 11-1/4 | 1-7/8 | 16 | 10d | 10 | 10d x 1-1/2 | 1855 | 1990 | 1990 | 1565 | 1600 | 1840 | 1990 | 1550 | |
| 1-5/8 x 9-1/4 - 14 | SKH1620L | --- | 16 | 1-11/16 | 9-3/16 | 1-7/8 | 14 | 10d | 10 | 10d x 1-1/2 | 1340 | 1340 | 1340 | 1565 | 1340 | 1340 | 1340 | 1550 | |
| 1-5/8 x 11-1/4 - 18 | SKH1624L | --- | 16 | 1-11/16 | 11-3/16 | 1-7/8 | 16 | 10d | 10 | 10d x 1-1/2 | 1855 | 1990 | 1990 | 1565 | 1600 | 1840 | 1990 | 1550 | |
| 1 3/4 x 9-1/4 - 14 | SKH1720L | SUR/L1.81/9 | 16 | 1-13/16 | 9-1/8 | 1-7/8 | 14 | 10d | 10 | 10d x 1-1/2 | 1625 | 1870 | 2030 | 1565 | 1400 | 1610 | 1750 | 1550 | |
| 1-3/4 x 11-1/4 - 18 | SKH1724L | SUR/L1.81/11 | 16 | 1-13/16 | 11-1/8 | 1-7/8 | 16 | 10d | 10 | 10d x 1-1/2 | 1855 | 2135 | 2320 | 1565 | 1600 | 1840 | 2000 | 1550 | |
| 2 - 2-1/8 x 9-1/4 - 14 | SKH2020L | SUR/LI2.06/9, SUR/L2.1/9 | 16 | 2-1/8 | 9 | 1-7/8 | 14 | 10d | 10 | 10d x 1-1/2 | 1625 | 1870 | 2030 | 1565 | 1400 | 1610 | 1750 | 1550 | |
| 2 - 2-1/8 x 11-1/4 - 18 | SKH2024L | SUR/L2.1/11 | 16 | 2-1/8 | 11 | 1-7/8 | 16 | 10d | 10 | 10d x 1-1/2 | 1855 | 2135 | 2320 | 1565 | 1600 | 1840 | 2000 | 1550 | |
| 2-1/4 - 2-5/16 x 9-1/4 - 14 | SKH2320L | SUR/LI3510/12 | 16 | 2-3/8 | 8-7/8 | 1-7/8 | 14 | 10d | 10 | 10d x 1-1/2 | 1625 | 1870 | 2030 | 1565 | 1400 | 1610 | 1750 | 1550 | |
| 2-1/4 - 2-5/16 x 11-1/4 - 14 | SKH2324L | SUR/LI3514/20 | 16 | 2-3/8 | 10-7/8 | 1-7/8 | 16 | 10d | 10 | 10d x 1-1/2 | 1855 | 2135 | 2320 | 1565 | 1600 | 1840 | 2000 | 1550 | |
| 3 x 6 - 8 | SKH36L | --- | 16 | 2-9/16 | 4-3/4 | 1-3/8 | 6 | 16d | 6 | 10d x 1-1/2 | 830 | 950 | 1025 | 1085 | 715 | 820 | 895 | 930 | |
| 3 x 8 - 10 - 12 | SKH38L | --- | 16 | 2-9/16 | 6-3/4 | 1-3/8 | 10 | 16d | 8 | 10d x 1-1/2 | 1380 | 1585 | 1585 | 1360 | 1190 | 1370 | 1490 | 1240 | |
| 3 x 10 - 12 - 14 | SKH310L | SUR/L310 | 16 | 2-9/16 | 8-3/4 | 1-3/8 | 14 | 16d | 10 | 10d x 1-1/2 | 1930 | 2220 | 2250 | 1565 | 1665 | 1915 | 2085 | 1550 | |
| 3 x 12 - 14 - 16 | SKH312L | SUR/L314 | 16 | 2-9/16 | 10-3/4 | 1-3/8 | 16 | 16d | 10 | 10d x 1-1/2 | 2210 | 2500 | 2500 | 1565 | 1905 | 2190 | 2380 | 1550 | |
| 2-1/2 x 9-1/4 - 14 | SKH2520L | --- | 16 | 2-9/16 | 8-5/8 | 1-7/8 | 14 | 10d | 10 | 10d x 1-1/2 | 1625 | 1870 | 2030 | 1565 | 1400 | 1610 | 1750 | 1550 | |
| 2-1/2 x 11-1/4 - 16 | SKH2524L | SUR/L2.56/11 | 16 | 2-9/16 | 10-3/4 | 1-7/8 | 16 | 10d | 10 | 10d x 1-1/2 | 1855 | 2135 | 2320 | 1565 | 1600 | 1840 | 2000 | 1550 | |
| 2-5/8 x 9-1/4 - 14 | SKH2620L | SUR/LI2.68/10 | 16 | 2-11/16 | 8-11/16 | 1-7/8 | 14 | 10d | 10 | 10d x 1-1/2 | 1625 | 1870 | 2030 | 1565 | 1400 | 1610 | 1750 | 1550 | |
| 2-5/8 x 11-1/4 - 16 | SKH2624L | SUR/LI2.68/14 | 16 | 2-11/16 | 10-11/16 | 1-7/8 | 16 | 10d | 10 | 10d x 1-1/2 | 1855 | 2135 | 2320 | 1565 | 1600 | 1840 | 2000 | 1550 | |

1) Uplift loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.
2) 10d x 1-1/2 nails and N10-GC are 9 gauge (0.148" diameter) by 1-1/2" long.
3) Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d and N16C-GC nails.

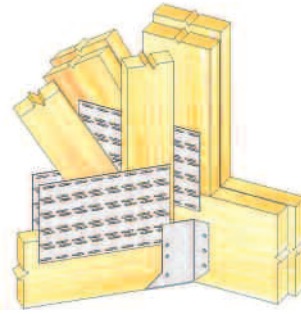
continued on next page



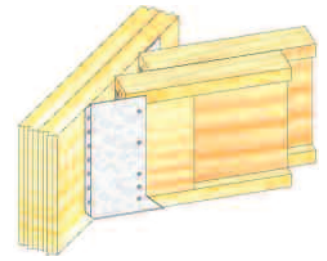
SKH210L



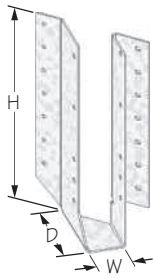
SKHH210L



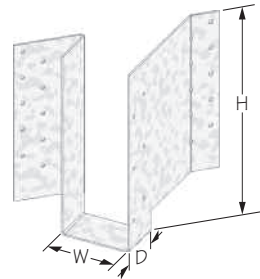
Typical SKH26L installation
Left skew



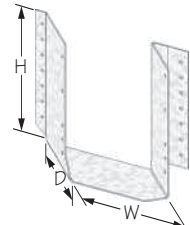
Typical SKH2520R-2 staggered I-Joist installation
Right skew



SKH210R



SKHH210L-2



SKH2520R-2

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| Beam / Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | Fastener Schedule ^{2,3,4} | | | | Allowable Loads (Lbs.) | | | | | | Code Ref. | | |
|-----------------------------|---------------|------------------------------|-------------|------------|--------|-------|------------------------------------|------|-------|-------------|------------------------|------|---------------------|-------|------|---------------------|-----------|------|--------|
| | | | | W | H | D | Header | | Joist | | DF-L / SP | | | S-P-F | | | | | |
| | | | | | | | Qty | Type | Qty | Type | Floor | Roof | Uplift ¹ | Floor | Roof | Uplift ¹ | | | |
| (2) 2 x 6 - 8 | SKH26L-2 * | SUR/L26-2 | 16 | 3-1/16 | 4-1/2 | 1-3/8 | 6 | 16d | 6 | 10d | 830 | 950 | 1035 | 1115 | 715 | 820 | 895 | 960 | 5, F10 |
| (2) 2 x 8 - 10 - 12 | SKH28L-2 * | --- | 16 | 3-1/16 | 6-1/2 | 1-3/8 | 10 | 16d | 8 | 10d | 1380 | 1585 | 1725 | 1360 | 1190 | 1370 | 1490 | 1280 | |
| (2) 2 x 10 - 12 - 14 | SKH210L-2 * | SUR/L210-2 | 16 | 3-1/16 | 8-1/2 | 1-3/8 | 14 | 16d | 10 | 10d | 1930 | 2220 | 2415 | 1565 | 1665 | 1915 | 2085 | 1565 | |
| (2) 2 x 12 - 14 - 16 | SKH212L-2 * | --- | 16 | 3-1/16 | 10-1/2 | 1-3/8 | 16 | 16d | 10 | 10d | 2210 | 2540 | 2760 | 1565 | 1905 | 2190 | 2380 | 1565 | |
| (2) 1-1/2 x 11-1/4 - 16 | SKH1524L-2 * | SUR/L214-2 | 16 | 3-1/16 | 10-1/2 | 1-7/8 | 16 | 10d | 10 | 10d x 1-1/2 | 1855 | 2135 | 2320 | 1565 | 1600 | 1840 | 2000 | 1550 | |
| 3-1/2 x 8 - 14 | SKH410L * | SUR/L410 | 14 | 3-9/16 | 8-1/2 | 2-1/2 | 16 | 16d | 10 | 16d | 2255 | 2540 | 2540 | 1565 | 1935 | 2225 | 2420 | 1565 | |
| 3-1/2 x 12 - 18 | SKH414L * | SUR/L414 | 14 | 3-9/16 | 12-1/2 | 2-1/2 | 22 | 16d | 10 | 16d | 3100 | 3565 | 3880 | 1565 | 2660 | 3060 | 3330 | 1565 | |
| 3-1/2 x 16 - 18 | SKH418L * | --- | 14 | 3-9/16 | 16-1/2 | 2-1/2 | 28 | 16d | 10 | 16d | 3950 | 4540 | 4935 | 1565 | 3390 | 3895 | 4235 | 1565 | |
| 4 x 6 - 8 | SKH46L * | SUR/L46 | 14 | 3-9/16 | 4-3/4 | 2-1/2 | 10 | 16d | 6 | 16d | 1410 | 1590 | 1590 | 1355 | 1210 | 1390 | 1515 | 1160 | |
| 4 x 10 - 12 - 14 | SKH410L * | SUR/L410 | 14 | 3-9/16 | 8-1/2 | 2-1/2 | 16 | 16d | 10 | 16d | 2255 | 2540 | 2540 | 1565 | 1935 | 2225 | 2420 | 1565 | |
| 4 x 14 - 16 - 18 | SKH414L * | SUR/L414 | 14 | 3-9/16 | 12-1/2 | 2-1/2 | 22 | 16d | 10 | 16d | 3100 | 3565 | 3880 | 1565 | 2660 | 3060 | 3330 | 1565 | |
| 4 x 18 | SKH418L * | --- | 14 | 3-9/16 | 16-1/2 | 2-1/2 | 28 | 16d | 10 | 16d | 3950 | 4540 | 4935 | 1565 | 3390 | 3895 | 4235 | 1565 | |
| (2) 2 - 2-1/8 x 9-1/4 - 14 | SKH2020L-2 * | HSUR/L4.12/9, HSUR/L4.28/9 | 14 | 4-3/16 | 9-1/4 | 3-1/2 | 14 | 10d | 10 | 10d | 1665 | 1915 | 2085 | 1905 | 1440 | 1660 | 1805 | 1650 | |
| (2) 2 - 2-1/8 x 11-1/4 - 18 | SKH2024L-2 * | HSUR/L4.12/11, HSUR/L4.28/11 | 14 | 4-3/16 | 11-1/4 | 3-1/2 | 16 | 10d | 10 | 10d | 1905 | 2190 | 2380 | 1905 | 1650 | 1895 | 2060 | 1650 | |
| (2) 2-5/16 x 9-1/4 - 14 | SKH2320L-2 * | HSUR/L4.75/9 | 14 | 4-7/8 | 9-1/4 | 3-1/2 | 14 | 10d | 10 | 10d | 1665 | 1915 | 2085 | 1905 | 1440 | 1660 | 1805 | 1650 | |
| (2) 2-5/16 x 11-1/4 - 18 | SKH2324L-2 * | HSUR/L4.75/11 | 14 | 4-7/8 | 11-1/4 | 3-1/2 | 16 | 10d | 10 | 10d | 1905 | 2190 | 2380 | 1905 | 1650 | 1895 | 2060 | 1650 | |
| (2) 2-1/2 x 9-1/4 - 14 | SKH2520L-2 * | HSUR/L5.12/9 | 14 | 5-1/8 | 9-1/4 | 3-1/2 | 14 | 10d | 10 | 10d | 1665 | 1915 | 2085 | 1905 | 1440 | 1660 | 1805 | 1650 | |
| (2) 2-1/2 x 11-1/4 - 16 | SKH2524L-2 * | HSUR/L5.12/11 | 14 | 5-1/8 | 11-1/4 | 3-1/2 | 16 | 10d | 10 | 10d | 1905 | 2190 | 2380 | 1905 | 1650 | 1895 | 2060 | 1650 | |
| 2 x 6 - 8 | SKHH26L | --- | 14 | 1-5/8 | 5-1/8 | 3-1/4 | 18 | 16d | 12 | 10d x 1-1/2 | 1510 | 1740 | 1890 | 2190 | 1305 | 1505 | 1635 | 1900 | |
| 2 x 8 - 10 - 12 | SKHH28L | --- | 14 | 1-5/8 | 7 | 3-1/4 | 26 | 16d | 16 | 10d x 1-1/2 | 2185 | 2510 | 2730 | 2920 | 1890 | 2170 | 2360 | 2535 | |
| 2 x 10 - 12 - 14 | SKHH210L | --- | 14 | 1-5/8 | 9 | 4-1/4 | 34 | 16d | 20 | 10d x 1-1/2 | 2855 | 3285 | 3570 | 3650 | 2470 | 2840 | 3085 | 3170 | |
| (2) 2 x 6 - 8 | SKHH26L-2 | HSUR/L26-2 | 14 | 3-1/16 | 5-1/4 | 2 | 12 | 16d | 4 | 16d x 2-1/2 | 1680 | 1930 | 2100 | 895 | 1450 | 1670 | 1815 | 775 | |
| (2) 2 x 10 - 12 - 14 | SKHH210L-2 | HSUR/L210-2 | 14 | 3-1/16 | 8-1/2 | 2 | 20 | 16d | 6 | 16d x 2-1/2 | 2800 | 3220 | 3500 | 1345 | 2420 | 2785 | 3025 | 1160 | |
| (2) 2 x 14 - 16 | SKHH214L-2 | HSUR/L214-2 | 14 | 3-1/16 | 12-1/2 | 2 | 26 | 16d | 10 | 16d x 2-1/2 | 3640 | 4185 | 4550 | 2240 | 3145 | 3620 | 3935 | 1935 | |
| 4 x 6 - 8 | SKHH46L | HSUR/L46 | 14 | 3-9/16 | 5-1/4 | 2-1/2 | 12 | 16d | 6 | 16d | 1680 | 1930 | 2100 | 1345 | 1450 | 1670 | 1815 | 1160 | |
| 4 x 10 - 12 - 14 | SKHH410L | HSUR/L410 | 14 | 3-9/16 | 8-1/2 | 2-1/2 | 20 | 16d | 10 | 16d | 2800 | 3220 | 3500 | 2240 | 2420 | 2785 | 3025 | 1935 | |
| 4 x 14 - 16 - 18 | SKHH414L | HSUR/L414 | 14 | 3-9/16 | 12-1/2 | 2-1/2 | 26 | 16d | 10 | 16d | 3640 | 4185 | 4550 | 2240 | 3145 | 3620 | 3935 | 1935 | |

1) Uplift loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.
 2) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 3) 16d x 2-1/2 nails are 8 gauge (0.162" diameter) by 2-1/2" long.
 4) Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
 *Miter cut required on end of joist to achieve design loads.

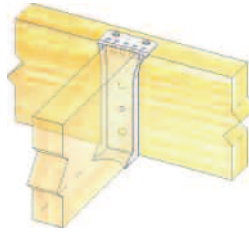
Hangers

KF – Fastens to joist ends quickly with nails.

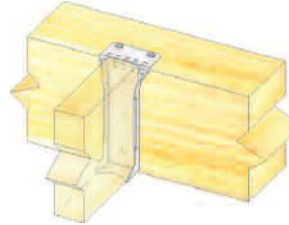
PHG – Features a gripper design to hold the joist in place without nailing during the assembly process.

FH – Receives a joist from only one side.

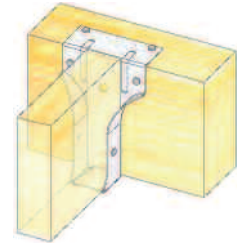
FHD – Straddles the header and receives a joist from both sides.



Typical **KF26** installation



Typical **PHG26** installation



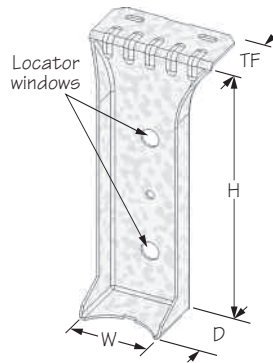
Typical **FH** installation

Materials: 18 gauge
Finish: G90 galvanizing
Codes: ESR-1280, ESR-2756, FL817, FL11664, L.A. City RR 25749

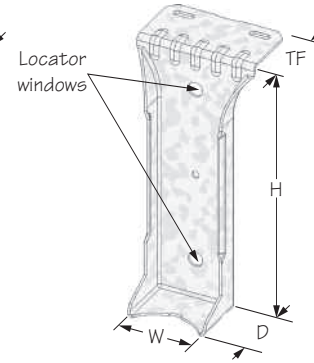
Installation:

- Use all specified fasteners. See Product Notes, page 10.
- In panelized construction, installers are allowed to nail through both the sheathing and the hanger top flange with (1) 10d nail. The nail should be centered in the top flange and be no closer than 1/4" from the back or front edge of the top flange.
- Use locator window to center hanger on purlin center line.

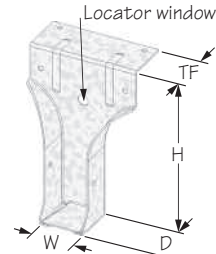
• KF & PHG – These hangers do not provide uplift resistance.



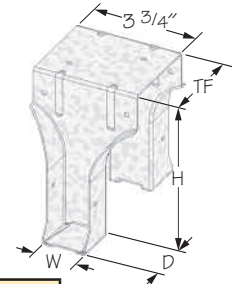
KF26



PHG26



FH



FHD

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| Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | | Fastener Schedule ^{3,4} | | | | | | Allowable Loads (Lbs.) ¹ | | Code Ref. |
|------------|---------------|----------|-------------|------------|--------|--------|-----------------|----------------------------------|------|-------|------|-----------|-------------|-------------------------------------|---------------------|-------------|
| | | | | W | H | D | TF ⁵ | Header | | Joist | | DF-L / SP | | | | |
| | | | | | | | | Qty | Type | Qty | Type | Qty | Type | 125% | Uplift ² | |
| | | | | Top | Face | Top | Face | Top | Face | 125% | 160% | | | | | |
| 2 x 4 | KF24 | --- | 18 | 1-9/16 | 3-7/16 | 7/8 | 1-1/16 | 2 | 10d | --- | --- | 1 | 10d x 1-1/2 | 595 | --- | 2, F20, R12 |
| | PHG24 | HF24N | 18 | 1-9/16 | 3-1/2 | 1-3/16 | 1-1/16 | 2 | 8d | --- | --- | --- | --- | 580 | --- | 2, F20, R12 |
| | FHD24 | --- | 18 | 1-9/16 | 3-1/2 | 1-1/2 | specify | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 130 |
| 2 x 6 | KF26 | F26P | 18 | 1-9/16 | 5-5/16 | 1-1/16 | 1-1/16 | 2 | 10d | --- | --- | --- | 10d x 1-1/2 | 610 | --- | 2, F20, R12 |
| | PHG26 | HF26N | 18 | 1-9/16 | 5-3/8 | 1 | 1-1/16 | 2 | 10d | --- | --- | --- | --- | 650 | --- | 2, F20, R12 |
| | FHD26 | --- | 18 | 1-9/16 | 5-3/8 | 1-1/2 | 1-7/16 | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 960 | 175 | 11, F12 |
| 2 x 8 | FHD26 | --- | 18 | 1-9/16 | 5-3/8 | 1-1/2 | specify | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 960 | 175 | 11 |
| | FH28 | --- | 18 | 1-9/16 | 7-1/4 | 1-1/2 | 1-7/16 | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 11, F12 |
| | FHD28 | --- | 18 | 1-9/16 | 7-1/4 | 1-1/2 | specify | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 11 |
| 2 x 10 | FH210 | --- | 18 | 1-9/16 | 9-1/4 | 1-1/2 | 1-7/16 | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 11, F12 |
| | FHD210 | --- | 18 | 1-9/16 | 9-1/4 | 1-1/2 | specify | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 11 |
| 2 x 12 | FH212 | --- | 18 | 1-9/16 | 11-1/4 | 1-1/2 | 1-7/16 | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 11, F12 |
| | FHD212 | --- | 18 | 1-9/16 | 11-1/4 | 1-1/2 | specify | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 11 |
| 2 x 14 | FH214 | --- | 18 | 1-9/16 | 13-1/4 | 1-1/2 | 1-7/16 | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 11, F12 |
| | FHD214 | --- | 18 | 1-9/16 | 13-1/4 | 1-1/2 | specify | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 1235 | 175 | 11 |
| 3 x 4 | PHG34 | HF34N | 18 | 2-9/16 | 3-1/2 | 1 | 1-1/8 | 2 | 10d | --- | --- | --- | --- | 650 | --- | 2, F20, R12 |
| | KF34 | --- | 18 | 2-9/16 | 3-7/16 | 1 | 1-1/8 | 2 | 10d | --- | --- | 1 | 10d x 1-1/2 | 730 | --- | 2, F20, R12 |
| 3 x 6 | PHG36 | HF36N | 18 | 2-9/16 | 5-3/8 | 1 | 1-1/8 | 2 | 10d | --- | --- | --- | --- | 650 | --- | 2, F20, R12 |
| | KF36 | --- | 18 | 2-9/16 | 5-3/8 | 1 | 1-1/8 | 2 | 10d | --- | --- | 1 | 10d x 1-1/2 | 730 | --- | 2, F20, R12 |
| (2) 2 x 4 | PHG24-2 | --- | 18 | 3-1/8 | 3-1/2 | 1 | 1-1/8 | 2 | 10d | --- | --- | --- | --- | 650 | --- | 2, F20, R12 |
| | KF24-2 | F24-2 | 18 | 3-1/8 | 3-1/2 | 1 | 1-3/16 | 2 | 10d | --- | --- | 1 | 10d x 1-1/2 | 695 | --- | 2, F20, R12 |
| (2) 2 x 6 | PHG26-2 | --- | 18 | 3-1/8 | 5-3/8 | 1 | 1-1/8 | 2 | 10d | --- | --- | --- | --- | 650 | --- | 2, F20, R12 |
| | KF26-2 | F26-2 | 18 | 3-1/8 | 5-3/8 | 1 | 1-3/16 | 2 | 10d | --- | --- | 1 | 10d x 1-1/2 | 810 | --- | 2, F20, R12 |
| 4 x 4 | KF44 | F44 | 18 | 3-9/16 | 3-3/8 | 1 | 1-1/8 | 2 | 10d | --- | --- | 1 | 10d x 1-1/2 | 695 | --- | 2, F20, R12 |
| 4 x 6 | KF46 | F46 | 18 | 3-9/16 | 5-3/8 | 1 | 1-1/8 | 2 | 10d | --- | --- | 1 | 10d x 1-1/2 | 810 | --- | 2, F20, R12 |

1) Loads listed are per side.
2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
3) Minimum nail embedment shall be 1-5/16" for 8d nails, 1-1/2" for 10d nails, and 1-5/8" for 16d nails.
4) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long. 10d x 1-1/2 nails may be substituted for 16d header nails with a maximum load of 960 lbs.
5) "Specify" denotes the required top flange width that must be specified at the time of ordering.
New products or updated product information are designated in red.

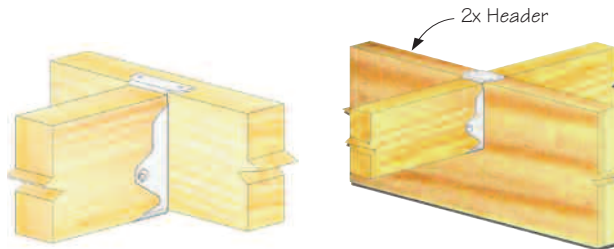
PURLIN HANGERS – JDS & JPF SERIES



Materials: 18 or 20 gauge
Finish: G90 galvanizing
Codes: ESR-2576, FL817

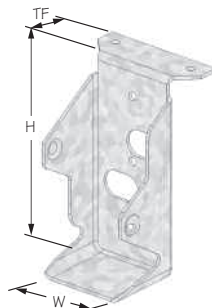
Installation:

- Use all specified fasteners. See Product Notes, page 10.
- Diamond holes on JPF allow optional header nailing.
- Joist nails must be driven at a 30° to 45° angle through the purlin into the header to achieve listed loads. **Standard length “double shear” nails must be used to achieve listed load values.**
- 16d sinkers (9 gauge x 3 1/4”) may be used where 10d commons are specified with no load reduction.

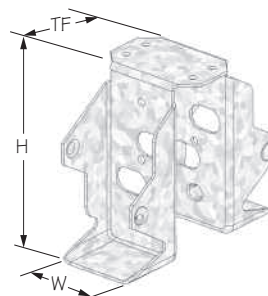


Typical JDS24S installation

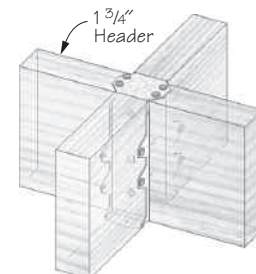
Typical JDS24 installation



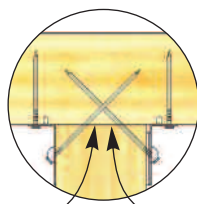
JDS24S



JDS24 (JDS26 similar)

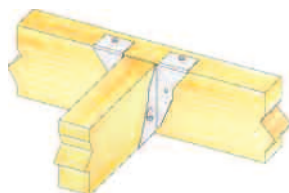


JDS26-175 installation

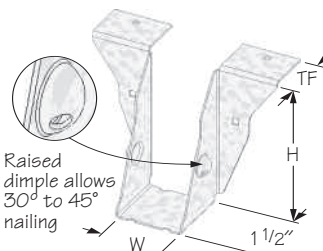


Double shear nail design features fewer nails and faster installation

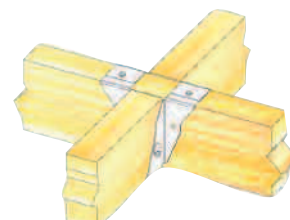
Uses standard length nails



Typical JPF24 installation



JPF24



Typical JPF24 back-to-back installation

| Purlin Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | Fastener Schedule ^{2,3} | | | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|--------------|---------------|----------|-------------|------------|--------|--------|----------------------------------|-------------|------|-------------|-------------|-------------|------------------------|------|------|---------------------|-----------|
| | | | | W | H | TF | Header | | | | Each Purlin | | DF-L / SP | | | | |
| | | | | | | | Top | | Face | | Qty | Type | Floor | Roof | 125% | Uplift ¹ | |
| | | | | | | | Qty | Type | Qty | Type | | | | | | | |
| 2 x 6 saddle | JDS26-175 | --- | 18 | 1-9/16 | 5-7/16 | 1-3/4 | 8 | 8d x 1-1/2 | --- | --- | 4 | 8d x 1-1/2 | 750 | 750 | 750 | 565 | 130 |
| 2 x 4 single | JDS24S Min | PF24A | 18 | 1-9/16 | 3-1/2 | 3/4 | 1 | 10d x 1-1/2 | 2 | 10d x 1-1/2 | 2 | 10d x 1-1/2 | 480 | 480 | 480 | 180 | |
| | JDS24S Max | | | | | | 2 | 10d x 1-1/2 | --- | --- | 2 | 10d | 575 | 575 | 575 | 340 | |
| 2 x 4 saddle | JDS24 Min | PFD24 | 18 | 1-9/16 | 3-1/2 | 1-9/16 | 2 | 10d x 1-1/2 | 4 | 10d x 1-1/2 | 2 | 10d x 1-1/2 | 960 | 960 | 960 | 360 | |
| | JDS24 Max | | | | | | 4 | 10d x 1-1/2 | --- | --- | 4 | 10d | 1155 | 1155 | 1155 | 680 | |
| 2 x 6 single | JDS26S Min | PF26A | 18 | 1-9/16 | 5-1/2 | 3/4 | 1 | 10d x 1-1/2 | 2 | 10d x 1-1/2 | 4 | 10d x 1-1/2 | 550 | 550 | 550 | 300 | |
| | JDS26S Max | | | | | | 2 | 10d x 1-1/2 | --- | --- | 4 | 10d | 775 | 830 | 835 | 390 | |
| 2 x 6 saddle | JDS26 Min | PFD26 | 18 | 1-9/16 | 5-1/2 | 1-9/16 | 2 | 10d x 1-1/2 | 4 | 10d x 1-1/2 | 4 | 10d x 1-1/2 | 1105 | 1105 | 1105 | 605 | |
| | JDS26 Max | | | | | | 4 | 10d x 1-1/2 | --- | --- | 8 | 10d | 1575 | 1670 | 1670 | 775 | |

1) Uplift loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.

2) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.

3) Minimum nail embedment shall be 1-1/2" for 10d nails.

New products or updated product information are designated in red.

| Purlin Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | Fastener Schedule ³ | | | | | | Allowable Loads (Lbs.) | | | | | | Code Ref. | | |
|-------------|---------------|----------|-------------|------------|-------|--------|--------------------------------|------|------|------|-------|------|------------------------|------|---------------------|-------|-------|---------------------|-----------|------|------|
| | | | | W | H | TF | Header ² | | | | Joist | | DF-L / SP | | | | S-P-F | | | | |
| | | | | | | | Top | | Face | | Qty | Type | Floor | Roof | Uplift ¹ | Floor | Roof | Uplift ¹ | | | |
| | | | | | | | Qty | Type | Qty | Type | | | | | | | | | | 100% | 115% |
| 2 x 4 | JPF24 | PF24 | 20 | 1-9/16 | 3-3/8 | 1-1/16 | 2 | 10d | --- | --- | 2 | 10d | 1070 | 1070 | 1070 | 315 | 800 | 800 | 800 | 235 | |
| | | | | | | | 2 | 10d | 2 | 10d | 2 | 10d | 1275 | 1275 | 1275 | 470 | 950 | 950 | 950 | 350 | |
| 2 x 6 | JPF26 | PF26 | 20 | 1-9/16 | 5-3/8 | 1-1/16 | 2 | 10d | --- | --- | 2 | 10d | 1070 | 1070 | 1070 | 315 | 800 | 800 | 800 | 235 | |
| | | | | | | | 2 | 10d | 2 | 10d | 2 | 10d | 1275 | 1275 | 1275 | 470 | 950 | 950 | 950 | 350 | |

1) Uplift loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.

2) JPF cannot be used back to back on a single ply header when optional nailing is used.

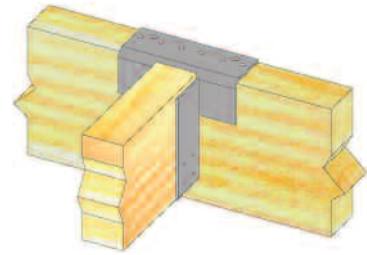
3) Minimum nail embedment shall be 1-1/2" for 10d nails.

Versatile heavy-duty top flange hanger attaches to both wood and masonry. Unique design allows builders to use one style hanger on the job when the structure has a variety of support materials.

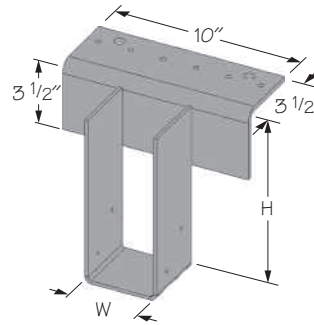
- Materials:** Top Flange – 1/4" steel; Stirrup – 7 gauge
Finish: USP primer
Options: See Specialty Options Chart on page 109.
Codes: 2031C, FL859

Installation:

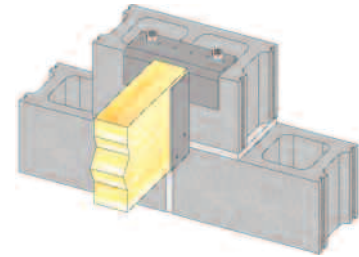
- Use all specified fasteners. See Product Notes, page 10.
- NA21 nails are included with hangers where specified.
- **NA21 nails are not recommended for use with LVL, PSL, or LSL headers.**
- Masonry design load values apply to both solid concrete tie beams and grout-filled CMU walls.
- **Alternate installation** – Use (2) 1/2" x 4" Powers Fasteners Wedge-Bolts® or equal for loads up to 2,400 lbs. when attaching to CMU. Loads shall not exceed table loads.



Typical HWUH410 wood-to-wood installation



HWUH410



Typical HWUH410 wood-to-masonry installation

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| Beam/ Joist Size | USP Stock No. | Ref. No. | Dimensions | | Fastener Schedule ^{1,3} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|---------------------|------------------|----------|------------|-------|----------------------------------|---------------------|-------|-------------|------------------------|------|---------------------|------|--------------|
| | | | W | H | Header | | Joist | | DF-L / SP | | | | |
| | | | | | Qty | Type | Qty | Type | Floor | Roof | Uplift ⁴ | | |
| 100% | 115% | 125% | 160% | | | | | | | | | | |
| 2 x 4 - 6 | HWUH26 | --- | 1-5/8 | 5-3/8 | 6 | 10d | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | L1, F17 |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| 2 x 8 | HWUH28 | --- | 1-5/8 | 7-1/8 | 6 | 10d | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| 2 x 10 | HWUH210 | --- | 1-5/8 | 9-1/8 | 6 | 10d | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| 2 x 12 | HWUH212 | --- | 1-5/8 | 11 | 6 | 10d | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| 2 x 14 | HWUH214 | --- | 1-5/8 | 13 | 6 | 10d | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| 2 x 16 | HWUH216 | --- | 1-5/8 | 16 | 6 | 10d | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d x 1-1/2 | 2265 | 2265 | 2265 | 930 | |
| 3 x 6 | HWUH36 | --- | 2-5/8 | 5-3/8 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| 3 x 8 | HWUH38 | --- | 2-5/8 | 7-1/8 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| 3 x 10 | HWUH310 | --- | 2-5/8 | 9-1/8 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| 3 x 12 | HWUH312 | --- | 2-5/8 | 11 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| 3 x 14 | HWUH314 | --- | 2-5/8 | 13 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| 3 x 16 | HWUH316 | --- | 2-5/8 | 16 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| (2) 2 x 6 | HWUH26-2 | --- | 3-1/8 | 5-3/8 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| (2) 2 x 8 | HWUH28-2 | --- | 3-1/8 | 7-1/8 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| (2) 2 x 10 | HWUH210-2 | --- | 3-1/8 | 9-1/8 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| (2) 2 x 12 | HWUH212-2 | --- | 3-1/8 | 11 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| (2) 2 x 14 | HWUH214-2 | --- | 3-1/8 | 13 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| (2) 2 x 16 | HWUH216-2 | --- | 3-1/8 | 16 | 6 | 10d | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 3800 | 3800 | 3800 | 1035 | |

continued on next page



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| Beam/ Joist Size | USP Stock No. | Ref. No. | Dimensions | | Fastener Schedule ^{1,3} | | | | Allowable Loads (Lbs.) | | | | Code Ref. |
|---------------------|------------------|----------|------------|-------|----------------------------------|---------------------|-------|------|------------------------|------|------|---------------------|--------------|
| | | | W | H | Header | | Joist | | DF-L / SP | | | | |
| | | | | | Qty | Type | Qty | Type | Floor | Roof | | Uplift ⁴ | |
| 100% | 115% | 125% | 133% | | | | | | | | | | |
| 4 x 6 | HWUH46 | --- | 3-9/16 | 5-3/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | L1, F17 |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 4 x 8 | HWUH48 | --- | 3-9/16 | 7-1/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 4 x 10 | HWUH410 | --- | 3-9/16 | 9-1/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 4 x 12 | HWUH412 | --- | 3-9/16 | 11 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 4 x 14 | HWUH414 | --- | 3-9/16 | 13 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 4 x 16 | HWUH416 | --- | 3-9/16 | 16 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 6 x 6 | HWUH66 | --- | 5-1/2 | 5-3/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 6 x 8 | HWUH68 | --- | 5-1/2 | 7-1/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 6 x 10 | HWUH610 | --- | 5-1/2 | 9-1/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 6 x 12 | HWUH612 | --- | 5-1/2 | 11 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 6 x 14 | HWUH614 | --- | 5-1/2 | 13 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 6 x 16 | HWUH616 | --- | 5-1/2 | 16 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 8 x 6 | HWUH86 | --- | 7-1/2 | 5-3/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 8 x 8 | HWUH88 | --- | 7-1/2 | 7-1/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 8 x 10 | HWUH810 | --- | 7-1/2 | 9-1/8 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 8 x 12 | HWUH812 | --- | 7-1/2 | 11 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 8 x 14 | HWUH814 | --- | 7-1/2 | 13 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| 8 x 16 | HWUH816 | --- | 7-1/2 | 16 | 6 | NA21 | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |
| | | | | | 2 | 1/2 x 6 Emb. J-Bolt | 4 | 10d | 5165 | 5165 | 5165 | 1035 | |

- 1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 2) NA21 nails are 6 gauge (0.192" diameter) by 1-3/4" long and are included with 4x, 6x, and 8x HWUH hangers.
- 3) Minimum nail embedment shall be 1-1/2" for 10d nails.
- 4) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

Specialty Options Chart – refer to Specialty Options pages 201, 203 to 204 for additional details.

| Option | Skewed ^{1,3} | Sloped Seat ^{2,3} | Sloped / Skewed ^{1,2,3} | Top Flange Offset | | Saddle |
|-----------------|--|---|---|--|---------------------------------------|---|
| Range | 1' to 45' | 1' to 45' | See Sloped Seat and Skewed | --- | | --- |
| Allowable Loads | 100% of table load | 100% of table load | 100% of table load | Hanger Width 3-1/2" or less 3-9/16" to 5-1/2" 5-9/16" to 7-1/2" | % of table load: 60% 75% 85% | 100% of table load per side |
| Ordering | Add SK, angle required, and right (R) or left (L), to product number. Ex. HWUH410-SK45R | Add SL, slope required, and up (U) or down (D), to product number. Ex. HWUH410-SL30D | See Sloped Seat and Skewed. Ex. HWUH410-SK45RSL30D | Add OS, and right (R) or left (L), to product number. Ex. HWUH410-OSL | | Add SA, and saddle width required to product number. Ex. HWUH410-SA=5-1/2" |

- 1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
- 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
- 3) All sloped, skewed, or combinations require bevel cut on joist in all applications.

Hangers

These hangers are designed to support standard lumber joists, I-Joists, or beams. Easy installation into concrete block walls makes the MPH an attractive alternative to fabricating seats in masonry (or attaching ledgers) to support joists or beams.

Materials: 12 gauge

Finish: USP primer

Options: All nominal lumber sizes are available for rough/full size lumber. See Specialty Options Chart on page 111.

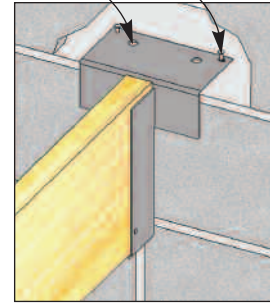
Codes: ESR-1781, FL816

Installation:

- Use all specified fasteners. See Product Notes, page 10.
- 16d duplex nails are not supplied with MPH hangers.
- Place hanger into position on top of concrete block. Install (2) 16d duplex nails (8 gauge or 0.162" dia. x 3 1/2" double head) through the top flange nail holes. Then continue laying the next course of block.
- A minimum of one course shall be laid over hanger top flange and one course below hanger top flange. Courses adjacent to the top flange shall be subsequently grouted.

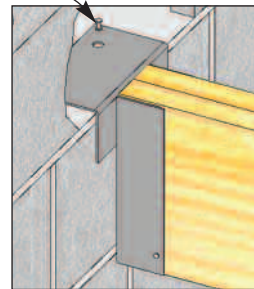
• **These products do not provide uplift resistance.**

Install with (2) 16d duplex nails in grouted cells



Typical MPH single ply installation

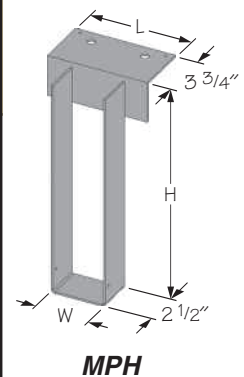
Install with (2) 16d duplex nails in grouted cells



Typical MPH double ply installation

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| Beam/ Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | Fastener Schedule ^{1,3} | | | | Allowable Loads (Lbs.) ² | | | Code Ref. |
|---------------------|------------------|----------|----------------|------------|--------|---|----------------------------------|------------|-------|-------------|-------------------------------------|------|------|--------------|
| | | | | W | H | L | Block | | Joist | | DF-L / SP | | | |
| | | | | | | | Qty | Type | Qty | Type | Floor | Roof | | |
| 2 x 10 | MPH210 | WM210 | 12 | 1-9/16 | 9-1/4 | 7 | 2 | 16d duplex | 2 | 10d x 1-1/2 | 2585 | 2620 | 2645 | 5, F11 |
| 2 x 12 | MPH212 | WM212 | 12 | 1-9/16 | 11-1/4 | 7 | 2 | 16d duplex | 2 | 10d x 1-1/2 | 2585 | 2620 | 2645 | |
| 2 x 14 | MPH214 | WM214 | 12 | 1-9/16 | 13-1/8 | 7 | 2 | 16d duplex | 2 | 10d x 1-1/2 | 2585 | 2620 | 2645 | |
| 2 x 16 | MPH216 | WM216 | 12 | 1-9/16 | 15-1/8 | 7 | 2 | 16d duplex | 2 | 10d x 1-1/2 | 2585 | 2620 | 2645 | |
| (2) 2 x 10 | MPH210-2 | WM210-2 | 12 | 3-1/8 | 9-1/4 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| (2) 2 x 12 | MPH212-2 | WM212-2 | 12 | 3-1/8 | 11-1/4 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| (2) 2 x 14 | MPH214-2 | WM214-2 | 12 | 3-1/8 | 13-1/8 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| (2) 2 x 16 | MPH216-2 | WM216-2 | 12 | 3-1/8 | 15-1/8 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 3 x 10 | MPH310 | WM310 | 12 | 2-9/16 | 9-1/4 | 7 | 2 | 16d duplex | 2 | 10d x 1-1/2 | 3240 | 3240 | 3240 | |
| 3 x 12 | MPH312 | WM312 | 12 | 2-9/16 | 11-1/4 | 7 | 2 | 16d duplex | 2 | 10d x 1-1/2 | 3240 | 3240 | 3240 | |
| 3 x 14 | MPH314 | WM314 | 12 | 2-9/16 | 13-1/8 | 7 | 2 | 16d duplex | 2 | 10d x 1-1/2 | 3240 | 3240 | 3240 | |
| 3 x 16 | MPH316 | WM316 | 12 | 2-9/16 | 15-1/8 | 7 | 2 | 16d duplex | 2 | 10d x 1-1/2 | 3240 | 3240 | 3240 | |
| 4 x 10 | MPH410 | WM410 | 12 | 3-9/16 | 9-1/4 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 4 x 12 | MPH412 | WM412 | 12 | 3-9/16 | 11-1/4 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 4 x 14 | MPH414 | WM414 | 12 | 3-9/16 | 13-1/8 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 4 x 16 | MPH416 | WM416 | 12 | 3-9/16 | 15-1/8 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 6 x 10 | MPH610 | WM610 | 12 | 5-9/16 | 9-1/4 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 6 x 12 | MPH612 | --- | 12 | 5-9/16 | 11-1/4 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 6 x 14 | MPH614 | --- | 12 | 5-9/16 | 13-1/8 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 6 x 16 | MPH616 | --- | 12 | 5-9/16 | 15-1/8 | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 8 x 10 | MPH810 | --- | 12 | 7-9/16 | 9-1/4 | 8 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 8 x 12 | MPH812 | --- | 12 | 7-9/16 | 11-1/4 | 8 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 8 x 14 | MPH814 | --- | 12 | 7-9/16 | 13-1/8 | 8 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |
| 8 x 16 | MPH816 | --- | 12 | 7-9/16 | 15-1/8 | 8 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |



1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 2) Masonry compressive strength shall be minimum 1500 psi.
 3) Duplex nails are No. 8 wire gauge (0.162" diameter) and 3-1/2" long, double headed nails and shall be installed in grouted cells in accordance to manufacturer's installation specifications.
 4) Minimum nail embedment shall be 1-1/2" for 10d nails.
 New products or updated product information are designated in red

continued on next page

Hangers

Glulam sizes

| Beam/ Joist Size | USP Stock No. | Ref. No. | Steel Gauge | Dimensions | | | Fastener Schedule ^{1,3} | | | | Allowable Loads (Lbs.) ¹ | | | Code Ref. |
|---------------------|------------------|----------|----------------|------------|---------|---|----------------------------------|------------|-------|------|-------------------------------------|------|------|--------------|
| | | | | W | H | L | Block | | Joist | | DF-L / SP | | | |
| | | | | | | | Qty | Type | Qty | Type | Floor | Roof | | |
| 3-1/8 x glulam | MPH325 | --- | 12 | 3-1/4 | specify | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | 5, F11 |
| 5-1/8 x glulam | MPH525 | --- | 12 | 5-1/4 | specify | 7 | 2 | 16d duplex | 2 | 10d | 4280 | 4280 | 4280 | |

- 1) Masonry compressive strength shall be minimum 1500 psi.
- 2) Duplex nails are No. 8 wire gauge (0.162" diameter) and 3-1/2" long, double headed nails and shall be installed in grouted cells in accordance to manufacturer's installation specifications.
- 3) Minimum nail embedment shall be 1-1/2" for 10d nails.

Specialty Options Chart – refer to Specialty Options pages 201, 203 to 204 for additional details.

| Option | Skewed ¹ | Sloped Seat ² | Sloped / Skewed ^{1,2} | Top Flange Offset | |
|-----------------|---|--|--|--|---------------------------------------|
| Range | 1" to 60" | 1" to 45" | See Sloped Seat and Skewed | -- -- | |
| Allowable Loads | 100% of table load | 100% of table load | 100% of table load | Hanger Width 3-1/2" or less 3-9/16" to 5-1/2" 5-9/16" to 7-1/2" | % of table load: 60% 75% 85% |
| Ordering | Add SK, angle required, and right (R) or left (L), to product number. Ex. MPH210-SK45R | Add SL, slope required, and up (U) or down (D), to product number. Ex. MPH210-SL30D | See Sloped Seat and Skewed. Ex. MPH210-SK45RSL30D | Add OS, and right (R) or left (L), to product number. Ex. MPH210-OSL | |

- 1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
- 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.

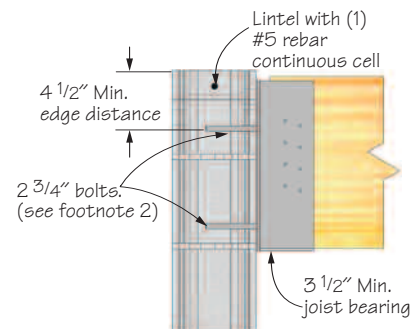
UNIVERSAL MASONRY HANGERS – UMH SERIES

A versatile solution for hanging beams from masonry walls. Face mount design allows hangers to be used with beam heights from 16" to 24". Available in a variety of widths for solid sawn, glulam, or engineered lumber beams.

Materials: 1/4" steel
Finish: USP primer
Codes: Dade County, FL 04-1122.03, FL5631

Installation:

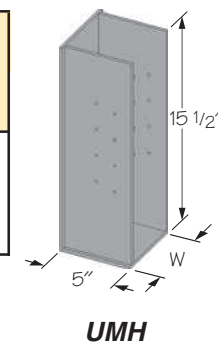
- Use all specified fasteners. See Product Notes, page 10.
- Fully grouted and reinforced concrete block or cast-in-place concrete with a minimum of (1) #5 rebar continuous to footing with standard hook at bolt locations.
- Minimum joist bearing length is 3 1/2".



Typical UMH installation

| USP Stock No. | Ref. No. | Steel Gauge | W | Fastener Schedule | | | | DF-L / SP Allowable Loads (Lbs.) | | | | | | | Code Ref. | |
|------------------|----------|----------------|-------|-----------------------|-----------|--------------------|------|----------------------------------|------|------|---------------------|-----------------------------------|------|------|--------------|---------------------|
| | | | | Header ^{2,3} | | Joist ⁴ | | Concrete - 2000 psi | | | | Cast in Place Concrete - 3000 psi | | | | |
| | | | | Qty | Bolt Dia. | Qty | Type | Floor | Roof | | Uplift ¹ | Floor | Roof | | | Uplift ¹ |
| UMH358 | --- | 1/4 | 3-5/8 | 2 | 3/4 | 16 | 16d | 5200 | 5200 | 5200 | 4785 | 5870 | 5870 | 5870 | 4785 | F25, D1 |
| UMH458 | --- | | 4-5/8 | | | | | | | | | | | | | |
| UMH538 | --- | | 5-3/8 | | | | | | | | | | | | | |
| UMH558 | --- | | 5-5/8 | | | | | | | | | | | | | |
| UMH718 | --- | | 7-1/8 | | | | | | | | | | | | | |

- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 2) Fasten UMH hanger to concrete structure with two 3/4" dia. Powers Fasteners Wedge-Bolts® or equal with 5" minimum embedment. Bolts shall be installed in masonry with grouted cells in accordance with manufacturer's installation specifications.
- 3) Bolts must conform to ASTM A 307 or better.
- 4) Minimum nail embedment shall be 1-5/8" for 16d nails.



Hangers

NFM – Standard design.

NFM_U – High uplift design.

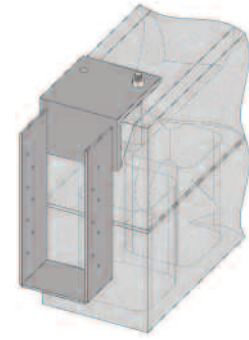
Materials: See chart

Finish: USP primer

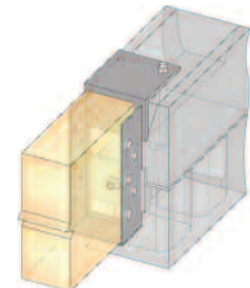
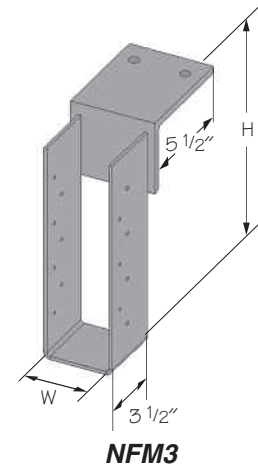
Codes: FL578, Dade County, FL 07-1003.10

Installation:

- Use all specified fasteners. See Product Notes, page 10.
- Designed for both concrete walls and grout-filled reinforced CMU walls.



Typical NFM45 installation



Typical NFM45U installation

| USP Stock No. | Ref. No. | Steel Gauge | | Dimensions | | Fastener Schedule | | | | Allowable Loads (Lbs.) ^{1,2} | | | | Code Ref. |
|---------------|----------------|-------------|---------|------------|--------|-----------------------|--------------|----------------------|------|---------------------------------------|-------|-------|--------|-----------|
| | | Top Flange | U-Strap | W | H | Header ^{3,4} | | Joist ^{5,6} | | DF-L / SP | | | | |
| | | | | | | Qty | Type | Qty | Type | Floor | Roof | | Uplift | |
| 100% | 115% | 125% | 160% | | | | | | | | | | | |
| NFM3X8 | --- | 3/8 | 7 | 3-1/8 | 7-1/4 | 1 | 1/2 x J-Bolt | 10 | 10d | 7130 | 7130 | 7130 | 1720 | F9, D8 |
| NFM3X10 | --- | 3/8 | 7 | 3-1/8 | 9-1/4 | 1 | 1/2 x J-Bolt | 12 | 10d | 7130 | 7130 | 7130 | 1720 | F9, D8 |
| NFM3X12 | --- | 3/8 | 7 | 3-1/8 | 11-1/4 | 1 | 1/2 x J-Bolt | 14 | 10d | 7130 | 7130 | 7130 | 1720 | F9, D8 |
| NFM3 | --- | 3/8 | 7 | 3-3/8 | 11-3/4 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM35X8 | --- | 3/8 | 7 | 3-5/8 | 7-1/4 | 1 | 1/2 x J-Bolt | 10 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM35X10 | --- | 3/8 | 7 | 3-5/8 | 9-1/4 | 1 | 1/2 x J-Bolt | 12 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM35X12 | --- | 3/8 | 7 | 3-5/8 | 11-1/4 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM35X1178 | --- | 3/8 | 7 | 3-5/8 | 11-7/8 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM35X16 | --- | 3/8 | 7 | 3-5/8 | 16 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM35X18 | --- | 3/8 | 7 | 3-5/8 | 18 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM45 | --- | 3/8 | 7 | 4-3/4 | 11-3/4 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM6X1178 | --- | 3/8 | 7 | 5-5/8 | 11-7/8 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM6X16 | --- | 3/8 | 7 | 5-5/8 | 16 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM6X18 | --- | 3/8 | 7 | 5-5/8 | 18 | 1 | 1/2 x J-Bolt | 14 | 10d | 7510 | 7510 | 7510 | 1720 | F9, D8 |
| NFM3X10U | MBHA3.12/9.25 | 3/8 | 7 | 3-1/8 | 9-1/4 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | F9, D8 |
| NFM3X12U | MBHA3.12/11.25 | 3/8 | 7 | 3-1/8 | 11-1/4 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | F9, D8 |
| NFM3U | --- | 3/8 | 7 | 3-3/8 | 11-3/4 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | F9, D8 |
| NFM35X10U | MBHA3.56/9.25 | 3/8 | 7 | 3-5/8 | 9-1/4 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | F9, D8 |
| NFM35X12U | MBHA3.56/11.25 | 3/8 | 7 | 3-5/8 | 11-1/4 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | F9, D8 |
| NFM35X1178U | MBHA3.56/11.88 | 3/8 | 7 | 3-5/8 | 11-7/8 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | F9, D8 |
| NFM35X14U | MBHA3.56/14 | 3/8 | 7 | 3-5/8 | 14 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | 130 |
| NFM35X16U | MBHA3.56/16 | 3/8 | 7 | 3-5/8 | 16 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | F9, D8 |
| NFM35X18U | MBHA3.56/18 | 3/8 | 7 | 3-5/8 | 18 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | F9, D8 |
| NFM45U | --- | 3/8 | 7 | 4-3/4 | 11-3/4 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 10310 | 10310 | 10310 | 3070 | F9, D8 |
| NFM6X10U | MBHA5.50/9.25 | 3/8 | 7 | 5-5/8 | 9-1/4 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 7130 | 7130 | 7130 | 3165 | 130 |
| NFM6X12U | MBHA5.50/11.25 | 3/8 | 7 | 5-5/8 | 11-1/4 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 10310 | 10310 | 10310 | 3070 | 130 |
| NFM6X1178U | MBHA5.50/11.88 | 3/8 | 7 | 5-5/8 | 11-7/8 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 10310 | 10310 | 10310 | 3070 | F9, D8 |
| NFM6X14U | MBHA5.50/14 | 3/8 | 7 | 5-5/8 | 14 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 10310 | 10310 | 10310 | 3070 | 130 |
| NFM6X16U | MBHA5.50/16 | 3/8 | 7 | 5-5/8 | 16 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 10310 | 10310 | 10310 | 3070 | F9, D8 |
| NFM6X18U | MBHA5.50/18 | 3/8 | 7 | 5-5/8 | 18 | 1 | 1/2 x J-Bolt | 5 | 1/2 | 10310 | 10310 | 10310 | 3070 | F9, D8 |

- 1) Allowable loads are based on 2500 psi concrete or masonry.
 - 2) Design loads are governed by test ultimate loads with a safety factor of three.
 - 3) J-Bolt shall be cast-in-place and have a minimum 6" embedment and not less than 4" from the edge of concrete.
 - 4) In addition to the J-Bolt, "U" models also require a 3/4" dia. ITW Ramset/Redhead Dyna Bolt sleeve anchor or equal with minimum 5" embedment depth installed in the face. Bolt shall be installed in accordance with installation specifications provided by ITW Ramset.
 - 5) Bolts shall conform to ASTM A 307 or better.
 - 6) Minimum nail embedment shall be 1-1/2" for 10d nails.
- New products or updated product information are designated in red.

NFM Specialty Options Chart – refer to Specialty Options pages 201, 203 to 204 for additional details.

| Option | Skewed ^{1,2} |
|-----------------|--|
| Range | 1' to 45' |
| Allowable Loads | 100% of table load |
| Ordering | Add SK, angle required, and right (R) or left (L), to product number. Ex. NFM3-SK45R |

- 1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
- 2) Skewed hangers with skews greater than 15° require the joist end to be bevel cut.

