

KF – Fastens to joist ends quickly with nails

PHG – Features a gripper design to hold the joist in place with out nailing during the assembly process

Materials: 18 gauge

Finish: G90 galvanizing

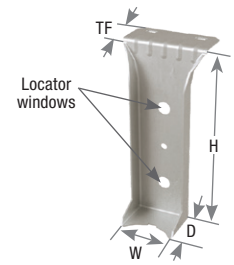
Codes: IBC, FL, LA

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- 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.**



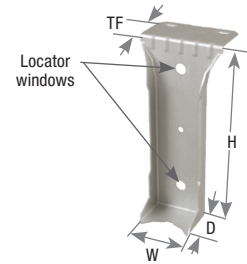
Typical KF installation



KF



Typical PHG26 installation



PHG26

| Joist Size | MiTek USP Stock No. | Ref. No. | Steel Gauge | Dimensions (in) | | | | Fastener Schedule ^{2,3} | | | | DF/SP Allowable Loads (Lbs.) ¹ | Code Ref. |
|------------|---------------------|----------|-------------|-----------------|-------|--------|-----------------|----------------------------------|------|-------|-------------|---|-------------|
| | | | | W | H | D | TF ⁵ | Header | | Joist | | | |
| | | | | | | | | Qty | Type | Qty | Type | 125% | |
| 2 x 4 | PHG24 | HF24N | 18 | 1-9/16 | 3-1/2 | 1-3/16 | 1-1/16 | 2 | 8d | -- | -- | 580 | IBC, FL, LA |
| 2 x 6 | PHG26 | HF26N | 18 | 1-9/16 | 5-3/8 | 1 | 1-1/16 | 2 | 10d | -- | -- | 650 | |
| 3 x 4 | PHG34 | HF34N | 18 | 2-9/16 | 3-1/2 | 1 | 1-1/8 | 2 | 10d | -- | -- | 650 | |
| 3 x 6 | PHG36 | HF36N | 18 | 2-9/16 | 5-3/8 | 1 | 1-1/8 | 2 | 10d | -- | -- | 650 | |
| (2) 2 x 4 | PHG24-2 | F24-2 | 18 | 3-1/8 | 3-1/2 | 1 | 1-1/8 | 2 | 10d | -- | -- | 650 | |
| (2) 2 x 6 | PHG26-2 | F26-2 | 18 | 3-1/8 | 5-3/8 | 1 | 1-1/8 | 2 | 10d | -- | -- | 650 | |
| 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 | |
| 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 | |

1) Loads listed are per side.

2) **NAILS:** 8d nails are 0.131" dia. x 2-1/2" long, 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long.

Materials: 20 gauge

Finish: G90 galvanizing

Options: See chart for Corrosion Finish Options

Codes: IBC, FL, LA

Installation:

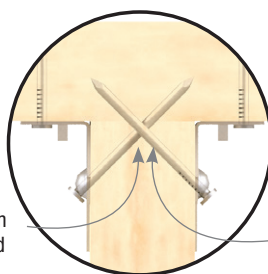
- Use all specified fasteners. See Product Notes, page 18.
- Diamond holes allow optional header nailing.
- Joist nails must be driven at a 30° to 45° angle through the purlin into the header to achieve listed loads. **Slant/double shear nails must be used to achieve listed load values.**
- 16d sinkers (0.148" dia. x 3-1/4") may be used where 10d commons are specified with no load reduction.



Typical JPF24 installation

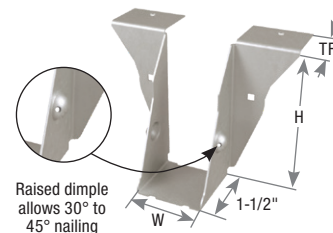


Typical JPF24 back-to-back installation



Double shear nail design features fewer nails and faster installation

Uses standard length common nails



JPF24

| Purlin Size | MiTek USP Stock No. | Ref. No. | GA | Dimensions (in) | | | Fastener Schedule ³ | | | | | DF/SP Allowable Loads (Lbs.) | | | | S-P-F Allowable Loads (Lbs.) | | | | Corrosion Finish | Code Ref. | |
|-------------|---------------------|----------|----|-----------------|-------|--------|--------------------------------|---------------------|----------|------|-------|------------------------------|------------------------|------|------|------------------------------|------------------------|------|------|------------------|-------------|------|
| | | | | W | H | TF | Min/Max | Header ² | | | Joist | | Allowable Loads (Lbs.) | | | | Allowable Loads (Lbs.) | | | | | |
| | | | | | | | | Top Qty | Face Qty | Type | Qty | Type | 100% | 115% | 125% | 160% | 100% | 115% | 125% | | | 160% |
| 2 x 4 | JPF24 | PF24 | 20 | 1-9/16 | 3-3/8 | 1-1/16 | Min | 2 | -- | 10d | 2 | 10d | 1035 | 1035 | 1035 | 315 | 815 | 815 | 815 | 255 | IBC, FL, LA | |
| | | | | | | | Max | 2 | 2 | 10d | 2 | 10d | 1305 | 1305 | 1305 | 425 | 995 | 1040 | 1040 | 340 | | |
| 2 x 6 | JPF26 | PF26 | 20 | 1-9/16 | 5-3/8 | 1-1/16 | Min | 2 | -- | 10d | 2 | 10d | 1035 | 1035 | 1035 | 315 | 815 | 815 | 815 | 255 | IBC, FL, LA | |
| | | | | | | | Max | 2 | 2 | 10d | 2 | 10d | 1305 | 1305 | 1305 | 425 | 995 | 1040 | 1040 | 340 | | |

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) **NAILS:** 10d nails are 0.148" dia. x 3" long.

Corrosion Finish
 ■ Stainless Steel ■ Gold Coat
 ■ HDG ■ Triple Zinc

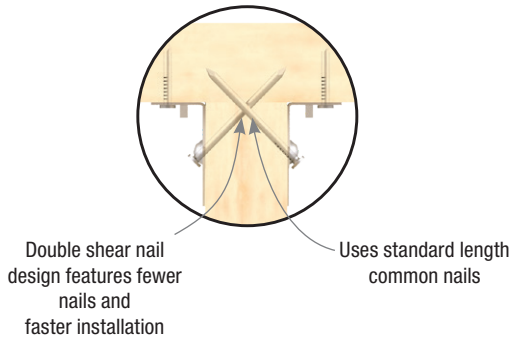
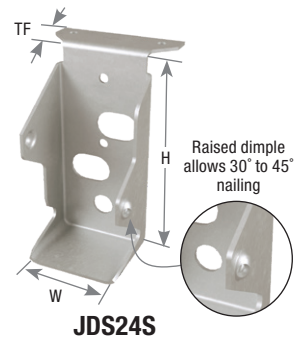
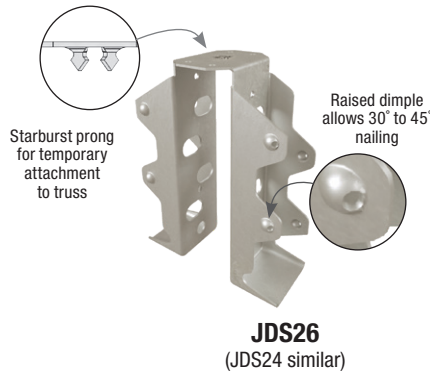
Materials: 18 gauge

Finish: G90 galvanizing

Codes: See chart for code references

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- Joist nails must be driven at a 30° to 45° angle through the purlin into the header to achieve listed loads. **Slant/double shear nails must be used to achieve listed load values.**



| Purlin Size | MiTek USP Stock No. | Ref. No. | Steel Gauge | Dimensions (in) | | | Fastener Schedule ² | | | | | DF/SP Allowable Loads (Lbs.) | | | | Code Ref. | |
|--------------|---------------------|----------|-------------|-----------------|--------|--------|--------------------------------|---------|----------|-------------|-----|------------------------------|------|------|------|-----------|-------------|
| | | | | W | H | TF | Min/Max | Header | | Each Purlin | | 100% | 115% | 125% | 160% | | |
| | | | | | | | | Top Qty | Face Qty | Type | Qty | | | | | | Type |
| 2 x 4 single | JDS24S | PF24B | 18 | 1-9/16 | 3-1/2 | 3/4 | Min | 1 | 2 | 10d x 1-1/2 | 2 | 10d x 1-1/2 | 480 | 480 | 480 | 180 | -- |
| | | | | | | | Max | 2 | -- | | 2 | 10d | 575 | 575 | 575 | 340 | IBC, FL, LA |
| 2 x 6 single | JDS26S | PF26B | 18 | 1-9/16 | 5-1/2 | 3/4 | Min | 1 | 2 | 10d x 1-1/2 | 4 | 10d x 1-1/2 | 550 | 550 | 550 | 355 | -- |
| | | | | | | | Max | 2 | -- | | 4 | 10d | 775 | 830 | 835 | 390 | IBC, FL, LA |
| 2 x 4 saddle | JDS24 | PFD24B | 18 | 1-9/16 | 3-1/2 | 1-9/16 | Min | 2 | 4 | 10d x 1-1/2 | 2 | 10d x 1-1/2 | 960 | 960 | 960 | 365 | -- |
| | | | | | | | Max | 4 | -- | | 2 | 10d | 1155 | 1155 | 1155 | 680 | IBC, FL, LA |
| 2 x 6 saddle | JDS26-175 | -- | 18 | 1-9/16 | 5-7/16 | 1-3/4 | Min | 2 | 4 | 10d x 1-1/2 | 4 | 10d x 1-1/2 | 1105 | 1105 | 1105 | 705 | -- |
| | | | | | | | Max | 4 | -- | | 4 | 10d | 1675 | 1790 | 1870 | 950 | |
| | JDS26 | PFD26B | 18 | 1-9/16 | 5-1/2 | 1-9/16 | Min | 2 | 4 | 10d x 1-1/2 | 4 | 10d x 1-1/2 | 1105 | 1105 | 1105 | 705 | |
| | | | | | | | Max | 4 | -- | | 4 | 10d | 1575 | 1670 | 1670 | 775 | |

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

2) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long.

TUS – For a single-ply purlin

DTUS – For a single-ply purlin with a 2-ply saddle dimension

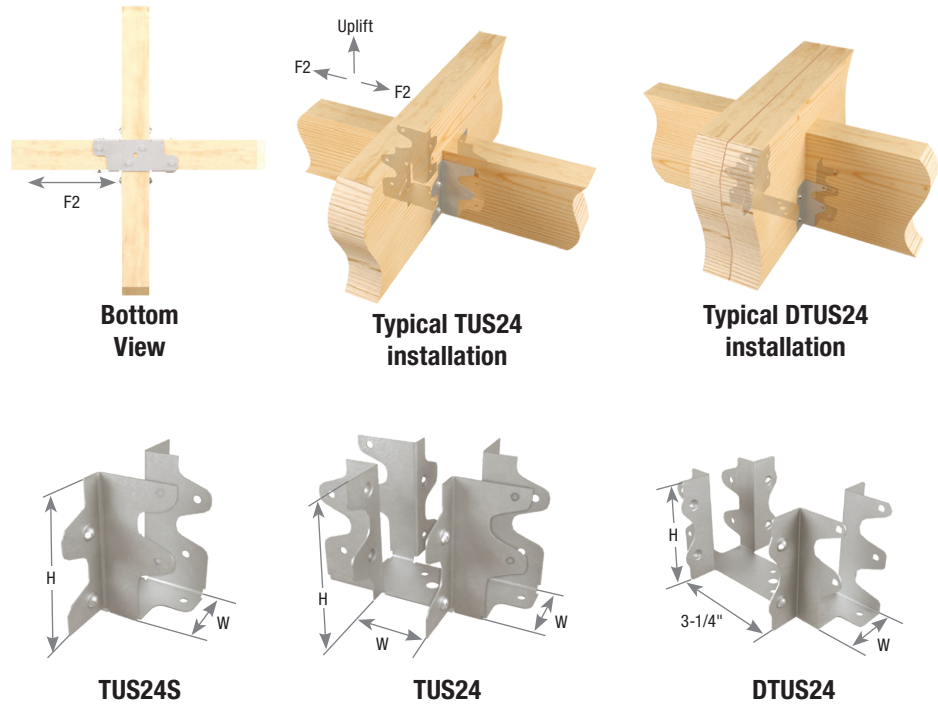
Materials: 20 gauge

Finish: G90 galvanizing

Patents: U.S. Patent No. 8,966,857 B2

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- Attaches with standard 1-1/2" joist hanger nails that can be installed with a positive placement nail gun or be hand driven.
- Other 1-1/2" fasteners with a shear value equal or greater than a 10d nail may be used.



| Joist Size | MiTek USP Stock No. | Ref. No. | Steel Gauge | Dimensions (in) | | Fastener Schedule ^{2,3} | | | | | | DF/SP Allowable Loads (Lbs.) ¹ | | | | | Code Ref. |
|------------------|---------------------|----------|-------------|-----------------|---|----------------------------------|------------|-------------|----------|------------|-------------|---|------|------|---------------------|---------|-----------|
| | | | | | | Header | | | Joist | | | 100% | 115% | 125% | Uplift ¹ | F2 160% | |
| | | | | W | H | Face Qty | Bottom Qty | Type | Face Qty | Bottom Qty | Type | | | | | | |
| 2 x 4 - 6 Single | TUS24S | -- | 20 | 1-9/16 | 3 | 4 | 1 | 8d x 1-1/2 | 4 | 1 | 8d x 1-1/2 | 485 | 550 | 595 | 505 | 205 | |
| | | | | | | | | 10d x 1-1/2 | | | 10d x 1-1/2 | 580 | 620 | 620 | 505 | 205 | |
| | | | | | | | | LL915 | | | LL915 | 580 | 620 | 620 | 505 | 205 | |
| 2 x 4 - 6 Saddle | TUS24 | -- | 20 | 1-9/16 | 3 | 4 | 1 | 8d x 1-1/2 | 4 | 1 | 8d x 1-1/2 | 485 | 550 | 595 | 505 | 645 | -- |
| | | | | | | | | 10d x 1-1/2 | | | 10d x 1-1/2 | 580 | 620 | 620 | 505 | 645 | |
| | | | | | | | | LL915 | | | LL915 | 580 | 620 | 620 | 505 | 645 | |
| | DTUS24 | -- | 20 | 1-9/16 | 3 | 4 | 1 | 8d x 1-1/2 | 4 | 1 | 8d x 1-1/2 | 485 | 550 | 595 | 505 | 645 | |
| | | | | | | | | 10d x 1-1/2 | | | 10d x 1-1/2 | 580 | 620 | 620 | 505 | 645 | |
| | | | | | | | | LL915 | | | LL915 | 580 | 620 | 620 | 505 | 645 | |

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 2) LL915 screws are #9 (0.131" diameter) x 1-1/2" long.
 3) **NAILS:** 8d x 1-1/2 nails are 0.131" dia. x 1-1/2" long, 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, LL915 screws are #9 (0.131" dia.) x 1-1/2" long.

FHD Panel Hangers

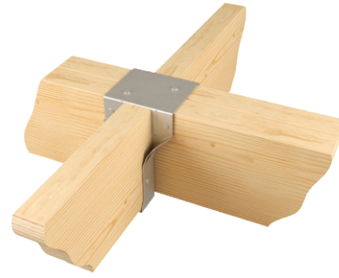
Hangers

The FHD26 hanger straddles the header and receives a joist from both sides.

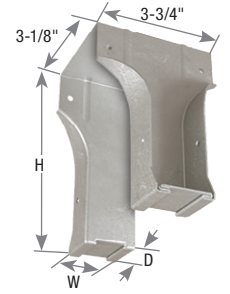
Materials: 18 gauge
Finish: G90 galvanizing

Installation:

- Use all specified fasteners. See Product Notes, page 18.
- 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.



Typical FHD26 installation



FHD26

| Joist Size | MiTek USP Stock No. | Ref. No. | Steel Gauge | Dimensions (in) | | | Fastener Schedule ³ | | | | DF/SP Allowable Loads (Lbs.) ¹ | | Code Ref. | | |
|------------|---------------------|----------|-------------|-----------------|-------|-------|--------------------------------|------|-------|------|---|--------------------------|-----------|-----|----|
| | | | | W | H | D | Header | | Joist | | 125% | Uplift ² 160% | | | |
| | | | | | | | Qty | Type | Qty | Type | | | | | |
| 2 x 6 | FHD26 | PFDS26 | 18 | 1-9/16 | 5-3/8 | 1-1/2 | 2 | 16d | 2 | 16d | 2 | 10d x 1-1/2 | 960 | 175 | -- |

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) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 16d nails are 0.162" dia. x 3-1/2" long.
 10d x 1-1/2 nails may be substituted for 16d header nails with a maximum load of 960 lbs.

CSH Concealed Stringer Hanger

The CSH-TZ concealed stringer hanger provides a method of connecting a stair stringer with a hidden hanger. The seat of the hanger is adjustable to match the slope of the stair stringer.

The reversible design allows the connector to be used on the left, right, or interior stringers. The CSH-TZ may be used with MiTek's SCA Stair Angles for a complete, easy-to-use stair framing solution.

Materials: 18 gauge
Finish: G-185 galvanizing
Codes: IBC, FL, LA
Patents: U.S. Patent No. 7,631,463

Installation:

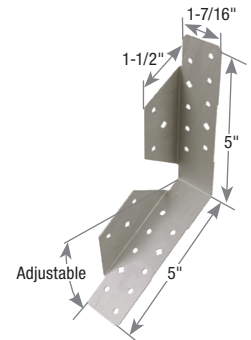
- Use all specified fasteners. See Product Notes, page 18.
- **Bend angle only once.**

Steps:

1. Attach CSH-TZ to header with tabs positioned towards the inside of the stringer member.
2. Adjust the seat of the CSH-TZ to match the slope of the stringer member. Diamond shaped holes in the connector allow temporary installation of wood screws to aid in installation of the CSH-TZ.
3. Install 10d (0.148") x 1-1/2" HDG nails into the stringer and rim/band joist.



Typical CSH-TZ installation



CSH-TZ

| MiTek USP Stock No. | Ref. No. | Steel Gauge | Fastener Schedule ^{2,3} | | | | DF/SP Allowable Loads (Lbs.) | | | | S-P-F/Hem Fir Allowable Loads (Lbs.) | | | | Corrosion Finish | Code Ref. |
|---------------------|----------|-------------|----------------------------------|-----------------|---------------|-----------------|------------------------------|------|------|-------------|--------------------------------------|------|------|-------------|------------------|-------------|
| | | | Rim/Band Joist | | Stringer | | 100% | 115% | 125% | Uplift 160% | 100% | 115% | 125% | Uplift 160% | | |
| | | | Qty | Type | Wide Face Qty | Narrow Face Qty | | | | | | | | | | |
| CSH-TZ | LSCZ | 18 | 8 | 10d x 1-1/2 HDG | 4 | 1 | 10d x 1-1/2 HDG | 890 | 890 | 890 | 370 | 725 | 725 | 725 | 305 | IBC, FL, LA |

1) Uplift loads are increased 60% for wind or seismic loads; no further increase shall be permitted.
 2) Stainless steel ring shank nails must be used with stainless steel connectors to achieve tabulated allowable loads.
 3) **NAILS:** 10d x 1-1/2 HDG nails are 0.148" dia. x 1-1/2" long.
 New products or updated product information are designated in **blue font**.

Corrosion Finish
■ Stainless Steel ■ Gold Coat
■ HDG ■ Triple Zinc

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Hangers