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Reference numbers shown throughout the charts in this catalog are part numbers which may be more familiar to customers in various regions of the United States. These are included for the convenience of our new customers who have recently switched from a competitor's product line to USP.

The reference numbers in this catalog are for general application comparison only and should not be used as a substitution tool. The user is responsible to compare specific load values, fastener schedules, material specifications, and other factors to determine suitability of use for any particular product.

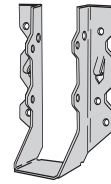
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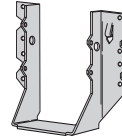
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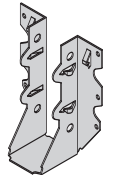
- **JL Series**
Light-capacity 20 gauge 2x joist hanger.
- **JR Series**
Light-capacity 18 gauge 2x joist hanger.
- **SUH Series**
Medium-capacity 16 gauge joist hanger.
- **SP Series**
Light-capacity 18 gauge 2x joist hangers with speed prongs.
- **JUS Series**
Medium-capacity 18 gauge joist hanger with slant nailing.
- **HUS Series**
Heavy-capacity 14 or 16 gauge joist hanger with slant nailing.
- **HD Series**
Heavy-capacity 14 gauge joist hanger.
- **J Series**
Heavy-capacity 14 gauge ornamental joist hanger with primer coating.



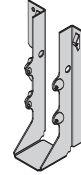
JL/JR



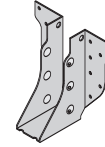
SUH



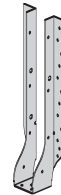
SP



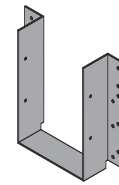
JUS



HUS



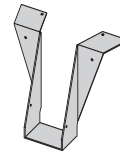
HD



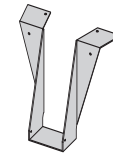
JT

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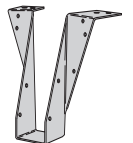
- **KLB Series**
Light-capacity 14 gauge top mount hanger with uplift capacity.
- **KB Series**
Medium-capacity 12 gauge top mount hanger with uplift capacity.
- **KHB Series**
Medium-to-heavy-capacity 12 gauge top mount hanger with uplift capacity.
- **KHHB Series**
Heavy-capacity 7 gauge top mount hanger with uplift capacity.
- **HDO Series**
Medium-capacity 12 gauge top mount hanger with uplift capacity.
- **HHDO Series**
Heavy-capacity 7 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.



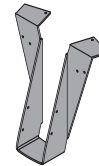
KLB



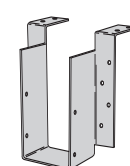
KB



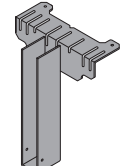
KHB



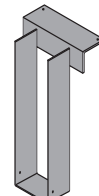
KHHB



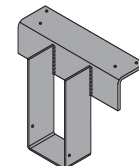
HDO/HHDO



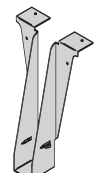
SW



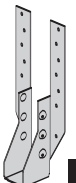
SWH



KHW



HL

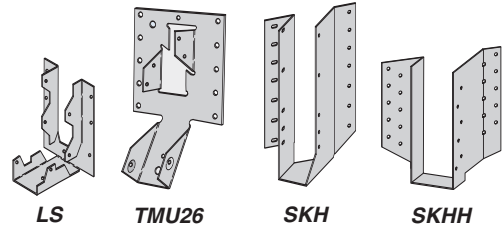


JH

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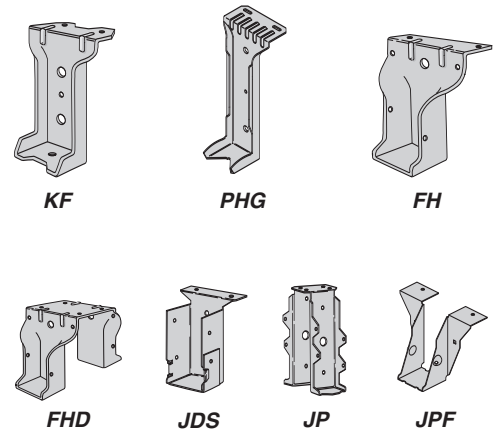
SLOPE & SKEW HANGERS PAGES 106-108

- **LS Series**
Light-capacity hanger for slopes of 0° to 30° down.
- **TMU26**
Light-capacity hanger for slopes from 35° up to 45° down.
- **SKH Series**
Light-capacity 45° skewed hanger.
- **SKHH Series**
Medium-capacity 45° skewed hanger.



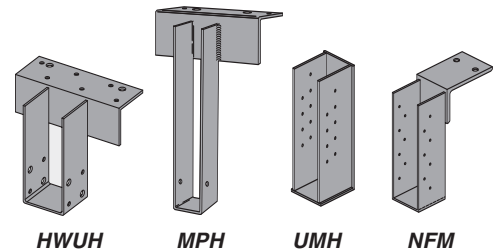
PANEL & PURLIN HANGERS PAGES 109-110

- **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.
- **JP Series**
Light-capacity purlin hanger.
- **JPF Series**
Medium-capacity purlin hanger with double shear nailing.



MASONRY HANGERS PAGES 111-115

- **HWUH 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.

JR series – 18 gauge, 2x joist hangers.

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

Materials: See chart

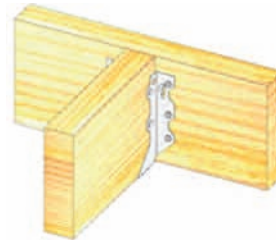
Finish: G90 galvanizing

Options: See SUH Specialty Options Chart.

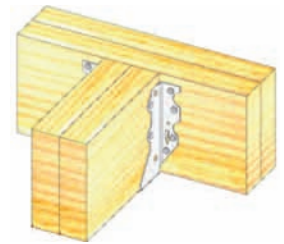
Codes: NER 505, ICBO 2039, L.A. City RR 23888 & RR 25303, FL816, **Dade County, FL 06.0601.03** — JL series

Installation:

- Use all specified fasteners. See Product Notes, page 16.
- 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.



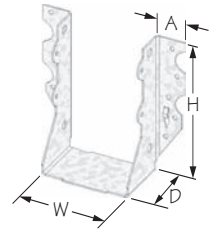
Typical JL26/JRSS installation



Typical SUH26-2 installation



JL26/JRSS



SUH26-2

SUH Specialty Options Chart – refer to Specialty Options pages 206 to 209 for additional details.

Option ¹	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.

SPEED PRONG HANGERS – SP SERIES

Prongs on the joist flanges eliminate the need for nail fastening to joist and the need for special short nails. Simply hammer the prefabricated speed prongs into the joist for fast installation.

Materials: 18 gauge

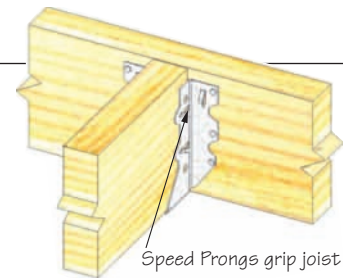
Finish: G90 galvanizing

Codes: ICBO 2039, L.A. City RR 23888

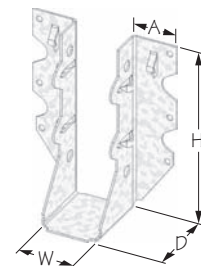
Installation:

- Use all specified fasteners for header fastening. See Product Notes, page 16.
- Set speed prongs with a careful tap of the hammer. Misguided hammer strokes may damage speed prong and render it useless.

• Not recommended for applications that require uplift resistance.



Typical SP26 installation



SP26

The HUS & JUS hanger series offers double shear nailing. USP's patented 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

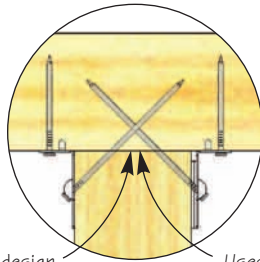
Options: HUS26, HUS28, HUS210, HUS28-2IF, & HUS210-2IF, JUS24, JUS26, JUS26-2, JUS28, JUS28-2, JUS210, JUS210-2, JUS44, JUS46, JUS48, JUS410, JUS414, JUS28-3, & JUS210-3 are available in Triple Zinc. To order, add TZ to stock number, as in **JUS24-TZ**. JUS24, JUS26, JUS26-2, JUS28, JUS210, and JUS210-2 are available in Stainless Steel. To order, add SS to stock number, as in **JUS26-SS**. See HUS Specialty Options Chart.

Codes: NER 608, NER 510, ICBO 2039, ICBO 5356, L.A. City RR 25327, FL818, FL821, **Dade County, FL 06-0605.10** — JUS (2) 2x, 3x, & 4x models **except:** JUS214-2, JUS414, & JUS214-3, **Dade County, FL 06-0601.03** — JUS 2x models

Patents: #5,217,317

Installation:

- Use all specified fasteners. See Product Notes, page 16.
- 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.

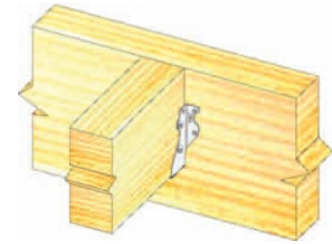


Double shear nail design features fewer nails and faster installation

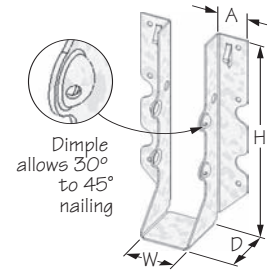
Uses standard length nails

HUS Specialty Options Chart – refer to Specialty Options pages 206 to 209 for additional details.

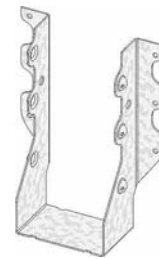
Option	Inverted Flange
Range	Not available in widths less than 2-1/4”.
Allowable Loads	100% of table load. 65% of table load when nailing into the support members end grain.
Ordering	Add IF to product number. Ex. HUS410IF



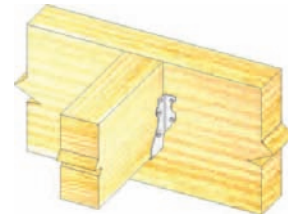
Typical **JUS46** installation



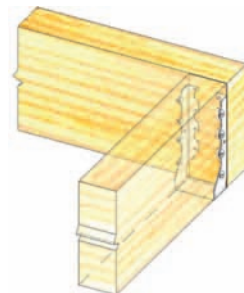
JUS28



HUS28-2



Typical **HUS46** installation



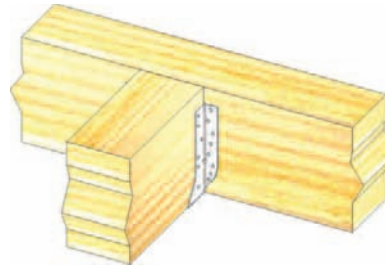
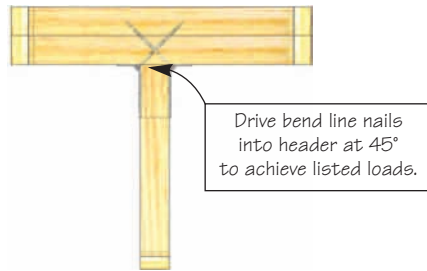
Typical **HUS410IF** inverted flange installation

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

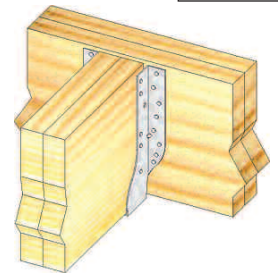
- Materials:** 14 gauge
- Finish:** G90 galvanizing
- Options:** All nominal lumber sizes are available for rough/full size lumber. See Specialty Options Chart.
- Codes:** NER 478, ICBO 2039, FL815, L.A. City RR 25283 & RR 23888
- Patent:** #7,134,636

Installation:

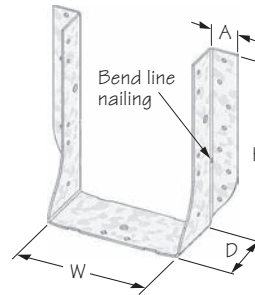
- Use all specified fasteners. See Product Notes, page 16.
- Some HD models feature nail holes along bend line that must be filled to achieve allowable loads. Verify proper header width to accomplish this for inverted models.



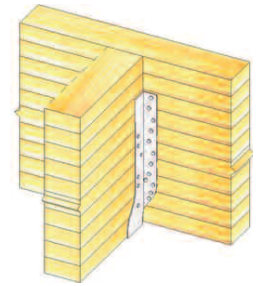
Typical HD610 installation



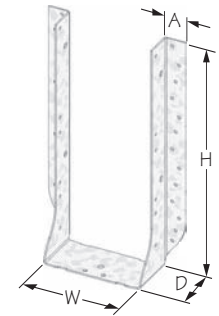
Typical HD210-2 installation



HD610



Typical HD3212 glulam installation

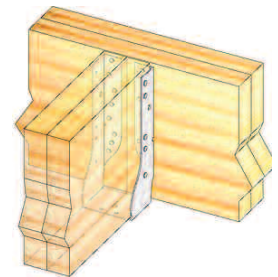


HD51135

Specialty Options Chart – refer to Specialty Options pages 206 to 209 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

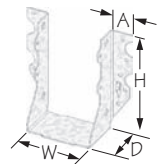
1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
 3) All sloped, skewed, or combinations require bevel cut on joist in all applications and web stiffeners with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



Typical HD210-2IF inverted flange installation

Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)					
				W	H	D	A	Header	Joist	DF-L / SP					
										Floor	Roof		Uplift ¹		
				100%	115%	125%	133%	160%							
2 x 4	JL24	LU24	20	1-9/16	3	1-1/2	15/16	(4) 10d (4) 16d	(2) 10d x 1-1/2	455 545	525 625	570 680	245	245	
	JRSSS	LU24-18	18	1-9/16	3	1-1/2	15/16	(4) 10d (4) 16d	(2) 10d x 1-1/2	455 550	525 630	570 685	245	245	
	JUS24	LUS24	18	1-9/16	3-1/8	1-3/4	1	(4) 10d (4) N10C-GC	(2) 10d (2) N10C-GC	655	750	815	510	510	
	JUS24-GC	---	---	---	---	---	---	---	---	---	---	---	---	---	
	SP24	---	---	18	1-9/16	3	1-1/2	7/8	(4) 16d	(2) prongs	550	630	685	---	---
	SUH24	U24	16	1-9/16	3-1/4	2	1-3/16	(4) 10d (4) 16d	(2) 10d x 1-1/2	465 550	535 635	580 690	300	360	
HD26	HU26	14	1-9/16	3-1/2	2	1-1/8	(4) 16d	(2) 10d x 1-1/2	560	645	700	290	290		
2 x 6	JL26	LU26	20	1-9/16	4-3/4	1-1/2	15/16	(6) 10d (6) 16d	(4) 10d x 1-1/2	685 815	785 940	855 1020	485	485	
	SP24	---	18	1-9/16	3	1-1/2	7/8	(4) 16d	(2) prongs	550	630	685	---	---	
	JRSS	LU26-18	18	1-9/16	4-3/4	1-1/2	15/16	(6) 10d (6) 16d	(4) 10d x 1-1/2	685 820	785 940	855 940	485	485	
	SP26	---	18	1-9/16	4-5/8	2	1-3/16	(6) 16d	(4) prongs	820	945	1030	---	---	
	JUS26	LUS26	18	1-9/16	4-13/16	1-3/4	1	(4) 10d (4) N10C-GC	(4) 10d (4) N10C-GC	850	975	1060	1115	1115	
	JUS26-GC	---	---	---	---	---	---	---	---	---	---	---	---	---	
	SUH26	U26	16	1-9/16	5-1/8	2	1-3/16	(6) 10d (6) 16d	(4) 10d x 1-1/2	695 830	800 950	870 1035	605	725	
	HUS26	HUS26	16	1-5/8	5-7/16	3	2	(14) 16d	(6) 16d	2635	3035	3295	1925	1925	
	JSS	---	14	1-9/16	5	1-5/8	1-1/4	(10) 16d	(4) 8d x 1-1/2	1420	1635	1775	535	640	
	HD26	HU26	14	1-9/16	3-1/2	2	1-1/8	(4) 16d	(2) 10d x 1-1/2	560	645	700	290	290	
	HD28	HU28	14	1-9/16	5-1/4	2	1-1/8	(8) 16d	(4) 10d x 1-1/2	1120	1290	1400	610	730	
	2 x 8	JL26	LU26	20	1-9/16	4-3/4	1-1/2	15/16	(6) 10d (6) 16d	(4) 10d x 1-1/2	685 815	785 940	855 1020	485	485
JL28		LU28	20	1-9/16	6-3/8	1-1/2	15/16	(10) 10d (10) 16d	(6) 10d x 1-1/2	1140 1360	1295 1565	1295 1700	885	885	
JRSS		LU26-18	18	1-9/16	4-3/4	1-1/2	15/16	(6) 10d (6) 16d	(4) 10d x 1-1/2	685 820	785 940	855 940	485	485	
SP26		---	18	1-9/16	4-5/8	2	1-3/16	(6) 16d	(4) prongs	820	945	1030	---	---	
JUS26		LUS26	18	1-9/16	4-13/16	1-3/4	1	(4) 10d (4) N10C-GC	(4) 10d (4) N10C-GC	850	975	1060	1115	1115	
JUS26-GC		---	---	---	---	---	---	---	---	---	---	---	---	---	
SP28		---	18	1-9/16	7	2	1-3/16	(8) 16d	(6) prongs	1095	1260	1370	---	---	
JRS		---	18	1-9/16	6-3/8	1-1/2	15/16	(10) 10d (10) 16d	(6) 10d x 1-1/2	1140 1370	1310 1575	1425 1600	885	885	
JUS28		LUS28	18	1-9/16	6-5/8	1-3/4	1	(6) 10d	(4) 10d	1075	1240	1345	1115	1115	
SUH26		U26	16	1-9/16	5-1/8	2	1-3/16	(6) 10d (6) 16d	(4) 10d x 1-1/2	695 830	800 950	870 1035	605	725	
SUH28		---	16	1-9/16	6-5/8	2	1-3/16	(8) 10d (8) 16d	(6) 10d x 1-1/2	930 1105	1065 1270	1160 1380	800	800	
HUS26		HUS26	16	1-5/8	5-7/16	3	2	(14) 16d	(6) 16d	2635	3035	3295	1925	1925	
HUS28		HUS28	16	1-5/8	7-3/16	3	2	(22) 16d	(8) 16d	3915	4080	4195	2570	2570	
HD28		HU28	14	1-9/16	5-1/4	2	1-1/8	(8) 16d	(4) 10d x 1-1/2	1120	1290	1400	610	730	
HD210		HU210	14	1-9/16	7-3/16	2	1-1/8	(12) 16d	(4) 10d x 1-1/2	1680	1930	2100	610	730	
2 x 10		JL28	LU28	20	1-9/16	6-3/8	1-1/2	15/16	(10) 10d (10) 16d	(6) 10d x 1-1/2	1140 1360	1295 1565	1295 1700	885	885
		JL210	LU210	20	1-9/16	8-1/4	1-1/2	15/16	(14) 10d (14) 16d	(8) 10d x 1-1/2	1595 1905	1835 1965	1875 1965	1095	1095
		SP26	---	18	1-9/16	4-5/8	2	1-3/16	(6) 16d	(4) prongs	820	945	1030	---	---
	JUS28	LUS28	18	1-9/16	6-5/8	1-3/4	1	(6) 10d	(4) 10d	1075	1240	1345	1115	1115	
	SP28	---	18	1-9/16	7	2	1-3/16	(8) 16d	(6) prongs	1095	1260	1370	---	---	
	JRS	---	18	1-9/16	6-3/8	1-1/2	15/16	(10) 10d (10) 16d	(6) 10d x 1-1/2	1140 1370	1310 1575	1425 1600	885	885	
	JUS210	LUS210	18	1-9/16	7-3/4	1-3/4	1	(8) 10d (8) N10C-GC	(4) 10d (4) N10C-GC	1305	1500	1630	1115	1115	
	JUS210-GC	---	---	---	---	---	---	---	---	---	---	---	---	---	
	SP210	---	18	1-9/16	8-3/16	2	1-3/16	(10) 16d	(6) prongs	1370	1400	1400	---	---	
	JRSX	LU210-18	18	1-9/16	8-1/4	1-1/2	15/16	(14) 10d (14) 16d	(8) 10d x 1-1/2	1595 1735	1735 1735	1735 1735	1095	1095	
	SUH28	---	16	1-9/16	6-5/8	2	1-3/16	(8) 10d (8) 16d	(6) 10d x 1-1/2	930 1105	1065 1270	1160 1380	800	800	
	SUH210	U210	16	1-9/16	8	2	1-3/16	(10) 10d (10) 16d	(6) 10d x 1-1/2	1160 1380	1335 1585	1450 1725	905	1085	
	HUS28	HUS28	16	1-5/8	7-3/16	3	2	(22) 16d	(8) 16d	3915	4080	4195	2570	2570	
	HUS210	HUS210	16	1-5/8	9-3/16	3	2	(30) 16d	(10) 16d	4195	4400	4540	3205	3205	
	HD210	HU210	14	1-9/16	7-3/16	2	1-1/8	(12) 16d	(4) 10d x 1-1/2	1680	1930	2100	610	730	

- 1) Uplift loads have been increased 33-1/3% or 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 and N10C-GC nails; 1-5/8" for 16d and N16C-GC 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) 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.
- New products or updated product information are designated in red.



FACE MOUNT HANGER CHARTS CONTINUED



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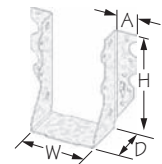
Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)				
				W	H	D	A	Header	Joist	DF-L / SP				
										Floor	Roof		Uplift ¹	
				100%	115%	125%	133%	160%						
2 x 12	JL210	LU210	20	1-9/16	8-1/4	1-1/2	15/16	(14) 10d (14) 16d	(8) 10d x 1-1/2	1595 1905	1835 1965	1875 1965	1095	1095
	JUS210	LUS210	18	1-9/16	7-3/4	1-3/4	1	(8) 10d	(4) 10d	1305	1500	1630		
	JUS210-GC	---						(8) N10C-GC	(4) N10C-GC					
	SP28	---	18	1-9/16	7	2	1-3/16	(8) 16d	(6) prongs	1095	1260	1370	---	---
	SP210	---	18	1-9/16	8-3/16	2	1-3/16	(10) 16d	(6) prongs	1370	1400	1400	---	---
	JRSX	LU210-18	18	1-9/16	8-1/4	1-1/2	15/16	(14) 10d (14) 16d	(8) 10d x 1-1/2	1595 1735	1735 1735	1735	1095	1095
	SUH210	U210	16	1-9/16	8	2	1-3/16	(10) 10d (10) 16d	(6) 10d x 1-1/2	1160 1380	1335 1585	1450 1725		
	HUS210	HUS210	16	1-5/8	9-3/16	3	2	(30) 16d	(10) 16d	4195	4400	4540	3205	3205
	HD210	HU210	14	1-9/16	7-3/16	2	1-1/8	(12) 16d	(4) 10d x 1-1/2	1680	1930	2100	610	730
	HD212	HU212	14	1-9/16	9-1/4	2	1-1/8	(16) 16d	(6) 10d x 1-1/2	2240	2575	2730	910	1065
2 x 14	JL210	LU210	20	1-9/16	8-1/4	1-1/2	15/16	(14) 10d (14) 16d	(8) 10d x 1-1/2	1595 1905	1835 1965	1875 1965	1095	1095
	SP210	---	18	1-9/16	8-3/16	2	1-3/16	(10) 16d	(6) prongs	1370	1400	1400		
	JRSX	LU210-18	18	1-9/16	8-1/4	1-1/2	15/16	(14) 10d (14) 16d	(8) 10d x 1-1/2	1595 1735	1735 1735	1735	1095	1095
	SUH210	U210	16	1-9/16	8	2	1-3/16	(10) 10d (10) 16d	(6) 10d x 1-1/2	1160 1380	1335 1585	1450 1725		
	SUH214	U214	16	1-9/16	10	2	1	(12) 10d (12) 16d	(8) 10d x 1-1/2	1390 1655	1600 1905	1740 2070	1205	1330
	HD212	HU212	14	1-9/16	9-1/4	2	1-1/8	(16) 16d	(6) 10d x 1-1/2	2240	2575	2730		
	HD214	HU214	14	1-9/16	11-1/2	2	1-1/8	(20) 16d	(6) 10d x 1-1/2	2560	2660	2730	910	1065
	2 x 16	SUH214	U214	16	1-9/16	10	2	1	(12) 10d (12) 16d	(8) 10d x 1-1/2	1390 1655	1600 1905	1740 2070	1205
HD212		HU212	14	1-9/16	9-1/4	2	1-1/8	(16) 16d	(6) 10d x 1-1/2	2240	2575	2730	910	
HD214		HU214	14	1-9/16	11-1/2	2	1-1/8	(20) 16d	(6) 10d x 1-1/2	2560	2660	2730	910	1065
HD216		HU216	14	1-9/16	13-1/2	2	1-1/8	(24) 16d	(8) 10d x 1-1/2	2785	2925	3015	1065	1065
(2) 2 x 4	JUS24-2	LUS24-2	18	3-1/8	3-7/16	2	1	(4) 16d	(2) 16d	785	900	965	325	325
	SUH24-2	U24-2	16	3-1/8	3-1/8	2	1-1/8	(6) 10d (6) 16d	(2) 10d	695 830	800 950	870 1035	310	370
	HD24-2	HU24-2	14	3-1/8	3-1/2	2-1/2	1-1/8	(4) 16d	(2) 10d	560	645	700		
	HUS24-2	---	14	3-1/8	3-7/16	2	1	(4) 16d	(2) 16d	795	915	995	495	495
(2) 2 x 6	JUS26-2	LUS26-2	18	3-1/8	5-1/4	2	1	(4) 16d	(4) 16d	1020	1170	1220	1355	1355
	JUS26-2GC	---						(4) N16C-GC	(4) N16C-GC					
	SUH26-2	U26-2	16	3-1/8	5-1/16	2	1-1/8	(8) 10d (8) 16d	(4) 10d	930 1105	1065 1270	1160 1380	620	740
	HD24-2	HU24-2	14	3-1/8	3-1/2	2-1/2	1-1/8	(4) 16d	(2) 10d	560	645	700		
	HUS24-2	---	14	3-1/8	3-7/16	2	1	(4) 16d	(2) 16d	795	915	995	495	495
	HUS26-2	HUS26-2	14	3-1/8	5-1/4	2	1	(4) 16d	(4) 16d	1030	1185	1290	1115	1115
HD26-2	HU26-2	14	3-1/8	5-1/8	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2095	945	1135	
(2) 2 x 8	JUS26-2	LUS26-2	18	3-1/8	5-1/4	2	1	(4) 16d	(4) 16d	1020	1170	1220	1355	1355
	JUS26-2GC	---						(4) N16C-GC	(4) N16C-GC					
	SUH26-2	U26-2	16	3-1/8	5-1/16	2	1-1/8	(8) 10d (8) 16d	(4) 10d	930 1105	1065 1270	1160 1380	620	740
	SUH28-2	---	16	3-1/8	6-1/4	2	1-1/8	(10) 10d (10) 16d	(4) 10d	1160 1380	1335 1585	1450 1725		
	HUS26-2	HUS26-2	14	3-1/8	5-1/4	2	1	(4) 16d	(4) 16d	1030	1185	1290	1115	1115
	HUS28-2	HUS28-2	14	3-1/8	7-1/8	2	1	(6) 16d	(6) 16d	1545	1775	1930	1810	1810
	HD26-2	HU26-2	14	3-1/8	5-1/8	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2095	945	1135
	HD28-2	HU28-2	14	3-1/8	7-1/8	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135
	JUS28-2	LUS28-2	18	3-1/8	7-1/8	2	1	(6) 16d	(4) 16d	1290	1485	1615	1355	1355
	(2) 2 x 10	JUS210-2	LUS210-2	18	3-1/8	9-1/8	2	1	(8) 16d	(6) 16d	1800	2070	2250	1980
JUS210-2GC		---	(8) N16C-GC						(6) N16C-GC					
SUH28-2		---	16	3-1/8	6-1/4	2	1-1/8	(10) 10d (10) 16d	(4) 10d	1160 1380	1335 1585	1450 1725	620	740
SUH210-2		U210-2	16	3-1/8	8-9/16	2	1-1/8	(14) 10d (14) 16d	(6) 10d	1625 1930	1870 2220	2030 2415		
HUS28-2		HUS28-2	14	3-1/8	7-1/8	2	1	(6) 16d	(6) 16d	1545	1775	1930	1810	1810
HD28-2		HU28-2	14	3-1/8	7-1/8	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135
HUS210-2		HUS210-2	14	3-1/8	9-1/8	2	1	(8) 16d	(8) 16d	2060	2370	2575	2210	2210
HD210-2		HU210-2	14	3-1/8	9	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890

Hangers

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Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)				
				W	H	D	A	Header	Joist	DF-L / SP				
										Floor	Roof		Uplift ¹	
100%	115%	125%	133%	160%										
(2) 2 x 12	JUS210-2	LUS210-2	18	3-1/8	9-1/8	2	1	(8) 16d	(6) 16d	1800	2070	2250	1980	1980
	JUS210-2GC	---	18	3-1/8	11-1/8	2	1	(8) N16C-GC	(6) N16C-GC	2075	2385	2595	1980	1980
	JUS212-2	---	18	3-1/8	11-1/8	2	1	(10) 16d	(6) 16d	1625	1870	2030	930	1115
	SUH210-2	U210-2	16	3-1/8	8-9/16	2	1-1/8	(14) 10d	(6) 10d	1930	2220	2415	930	1115
	HUS210-2	HUS210-2	14	3-1/8	9-1/8	2	1	(8) 16d	(8) 16d	2060	2370	2575	2210	2210
	HD210-2	HU210-2	14	3-1/8	9	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
	HUS212-2	HUS212-2	14	3-1/8	11-1/8	2	1	(10) 16d	(10) 16d	2575	2960	3220	3060	3060
	HD212-2	HU212-2	14	3-1/8	11	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
	JUS210-2	LUS210-2	18	3-1/8	9-1/8	2	1	(8) 16d	(6) 16d	1800	2070	2250	1980	1980
	JUS212-2	---	18	3-1/8	11-1/8	2	1	(10) 16d	(6) 16d	2075	2385	2595	1980	1980
(2) 2 x 14	JUS214-2	LUS214-2	18	3-1/8	13-1/8	2	1	(8) 16d	(6) 16d	2350	2700	2935	1980	1980
	SUH210-2	U210-2	16	3-1/8	8-9/16	2	1-1/8	(14) 10d	(6) 10d	1625	1870	2030	930	1115
	SUH214-2	---	16	3-1/8	10-1/4	2	1-1/8	(14) 10d	(6) 10d	1930	2220	2415	930	1115
	SUH214-2	---	16	3-1/8	10-1/4	2	1-1/8	(16) 16d	(6) 10d	1855	2135	2320	930	1115
	HD210-2	HU210-2	14	3-1/8	9	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
	HUS212-2	HUS212-2	14	3-1/8	11-1/8	2	1	(10) 16d	(10) 16d	2575	2960	3220	3060	3060
	HD212-2	HU212-2	14	3-1/8	11	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
	HUS214-2	---	14	3-1/8	13-1/8	2	1	(12) 16d	(12) 16d	3090	3555	3865	3060	3060
	HD214-2	HU214-2	14	3-1/8	13	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	JUS214-2	LUS214-2	18	3-1/8	13-1/8	2	1	(12) 16d	(6) 16d	2350	2700	2935	1980	1980
(2) 2 x 16	SUH214-2	---	16	3-1/8	10-1/4	2	1-1/8	(16) 10d	(6) 10d	1855	2135	2320	930	1115
	SUH214-2	---	16	3-1/8	10-1/4	2	1-1/8	(16) 16d	(6) 10d	2210	2540	2760	930	1115
	HD212-2	HU212-2	14	3-1/8	11	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
	HUS214-2	---	14	3-1/8	13-1/8	2	1	(12) 16d	(12) 16d	3090	3555	3865	3060	3060
	HD214-2	HU214-2	14	3-1/8	13	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	HD216-2	HU216-2	14	3-1/8	15	2-1/2	1-1/8	(26) 16d	(12) 10d	3640	4185	4550	1890	2265
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	300	360
	SUH34	U34	16	2-9/16	3-3/8	2	1-1/8	(6) 16d	(2) 10d x 1-1/2	830	850	850	300	360
3 x 6	HD34	HU34	14	2-9/16	3	2	1-1/8	(4) 16d	(2) 10d x 1-1/2	560	645	700	290	290
	JUS36	LUS36	18	2-9/16	5-5/16	2	1	(4) 16d	(4) 16d	1020	1170	1220	1355	1355
	SUH34	U34	16	2-9/16	3-3/8	2	1-1/8	(6) 10d	(2) 10d x 1-1/2	695	800	850	300	360
	SUH34	U34	16	2-9/16	3-3/8	2	1-1/8	(6) 16d	(2) 10d x 1-1/2	830	850	850	300	360
	SUH36	U36	16	2-9/16	5-5/16	2	1-1/8	(8) 10d	(4) 10d x 1-1/2	930	1065	1160	605	725
	SUH36	U36	16	2-9/16	5-5/16	2	1-1/8	(8) 16d	(4) 10d x 1-1/2	1105	1270	1380	605	725
3 x 8	HD36	HU36	14	2-9/16	4-3/4	2	1-1/8	(8) 16d	(4) 10d x 1-1/2	1120	1290	1400	610	730
	JUS38	---	18	2-9/16	6-3/4	2	1	(6) 16d	(4) 16d	1290	1485	1615	1355	1355
	SUH36	U36	16	2-9/16	5-5/16	2	1-1/8	(8) 10d	(4) 10d x 1-1/2	930	1065	1160	605	725
	SUH36	U36	16	2-9/16	5-5/16	2	1-1/8	(8) 16d	(4) 10d x 1-1/2	1105	1270	1380	605	725
	HD36	HU36	14	2-9/16	4-3/4	2	1-1/8	(8) 16d	(4) 10d x 1-1/2	1120	1290	1400	610	730
	HD38	HU38	14	2-9/16	6-3/4	2	1-1/8	(12) 16d	(4) 10d x 1-1/2	1680	1930	2100	610	730
3 x 10	JUS310	LUS310	18	2-9/16	9-1/8	2	1	(8) 16d	(6) 16d	1800	2070	2250	1980	1980
	SUH310	U310	16	2-9/16	8-7/8	2	1-1/8	(14) 10d	(6) 10d x 1-1/2	1625	1870	2030	905	1085
	SUH310	U310	16	2-9/16	8-7/8	2	1-1/8	(14) 16d	(6) 10d x 1-1/2	1930	2220	2415	905	1085
	HD38	HU38	14	2-9/16	6-3/4	2	1-1/8	(12) 16d	(4) 10d x 1-1/2	1680	1930	2100	610	730
	HD310	HU310	14	2-9/16	7-7/16	2-1/2	1-1/8	(14) 16d	(6) 10d x 1-1/2	1960	2255	2450	910	1065
	HD310	HU310	14	2-9/16	7-7/16	2-1/2	1-1/8	(14) 10d	(6) 10d x 1-1/2	1625	1870	2030	905	1085
3 x 12	SUH310	U310	16	2-9/16	8-7/8	2	1-1/8	(14) 16d	(6) 10d x 1-1/2	1930	2220	2415	905	1085
	HD38	HU38	14	2-9/16	6-3/4	2	1-1/8	(12) 16d	(4) 10d x 1-1/2	1680	1930	2100	610	730
	HD310	HU310	14	2-9/16	7-7/16	2-1/2	1-1/8	(14) 16d	(6) 10d x 1-1/2	1960	2255	2450	910	1065
	HD312	HU312	14	2-9/16	9-5/16	2-1/2	1-1/8	(16) 16d	(10) 10d x 1-1/2	2240	2575	2800	1065	1065
	SUH314	U314	16	2-9/16	10-9/16	2	1	(16) 10d	(6) 10d x 1-1/2	1855	2135	2320	905	1085
	SUH314	U314	16	2-9/16	10-9/16	2	1	(16) 16d	(6) 10d x 1-1/2	2210	2505	2505	905	1085
3 x 14	HD310	HU310	14	2-9/16	7-7/16	2-1/2	1-1/8	(14) 16d	(6) 10d x 1-1/2	1960	2255	2450	910	1065
	HD312	HU312	14	2-9/16	9-5/16	2-1/2	1-1/8	(16) 16d	(10) 10d x 1-1/2	2240	2575	2800	1065	1065
	HD314	HU314	14	2-9/16	11-5/16	2-1/2	1-1/8	(20) 16d	(10) 10d x 1-1/2	2800	3220	3500	1065	1065
	SUH314	U314	16	2-9/16	10-9/16	2	1	(16) 10d	(6) 10d x 1-1/2	1855	2135	2320	905	1085
	SUH314	U314	16	2-9/16	10-9/16	2	1	(16) 16d	(6) 10d x 1-1/2	2210	2505	2505	905	1085
	HD312	HU312	14	2-9/16	9-5/16	2-1/2	1-1/8	(16) 16d	(10) 10d x 1-1/2	2240	2575	2800	1065	1065
3 x 16	HD314	HU314	14	2-9/16	11-5/16	2-1/2	1-1/8	(20) 16d	(10) 10d x 1-1/2	2800	3220	3500	1065	1065
	HD316	HU316	14	2-9/16	13-5/16	2-1/2	1-1/8	(24) 16d	(10) 10d x 1-1/2	3360	3865	4200	1065	1065
	HD38-2	---	14	5-1/8	6-1/8	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135

- Uplift loads have been increased 33-1/3% or 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.
- New products or updated product information are designated in red.



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FACE MOUNT HANGER CHARTS CONTINUED



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Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)				
				W	H	D	A	Header	Joist	DF-L / SP				
										Floor	Roof			Uplift ¹
				100%	115%	125%	133%	160%						
(2) 3 x 10	SUH310-2	--	16	5-1/8	9	2	1	(14) 10d	(6) 10d	1625	1870	2030	930	1115
								(14) 16d		1930	2220	2415		
	HD38-2	--	14	5-1/8	6-1/8	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135
	HD310-2	--	14	5-1/8	8	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
(2) 3 x 12	SUH310-2	--	16	5-1/8	9	2	1	(14) 10d	(6) 10d	1625	1870	2030	930	1115
								(14) 16d		1930	2220	2415		
	HD310-2	--	14	5-1/8	8	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
	HD312-2	--	14	5-1/8	10	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
(2) 3 x 14	HD310-2	--	14	5-1/8	8	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
(2) 3 x 16	HD312-2	--	14	5-1/8	10	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
(3) 2 x 4	JUS24-3	---	18	4-5/8	2-3/4	2	1	(4) 16d	(2) 16d	785	900	965	325	325
	HUS24-3	---	14	4-5/8	3-11/16	2	1	(4) 16d	(2) 16d	795	915	995	495	495
(3) 2 x 6	JUS26-3	LUS26-3	18	4-5/8	4-1/2	2	1	(4) 16d	(4) 16d	1020	1170	1220	1355	1355
	SUH26-3	U26-3	16	4-5/8	5-1/4	2	1	(8) 10d	(2) 10d	930	1065	1160	310	370
								(8) 16d		1105	1270	1380		
	HUS24-3	---	14	4-5/8	3-11/16	2	1	(4) 16d	(2) 16d	795	915	995	495	495
	HUS26-3	---	14	4-5/8	4-1/2	2	1	(4) 16d	(4) 16d	1030	1185	1290	1115	1115
HD26-3	HU26-3	14	4-5/8	4-3/8	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2095	945	1135	
(3) 2 x 8	JUS26-3	LUS26-3	18	4-5/8	4-1/2	2	1	(4) 16d	(4) 16d	1020	1170	1220	1355	1355
	JUS28-3	LUS28-3	18	4-5/8	6-3/8	2	1	(6) 16d	(4) 16d	1290	1485	1615	1355	1355
	SUH26-3	U26-3	16	4-5/8	5-1/4	2	1	(8) 10d	(2) 10d	930	1065	1160	310	370
								(8) 16d		1105	1270	1380		
	SUH28-3	---	16	4-5/8	7-1/8	3	1	(10) 10d	(6) 10d	1160	1335	1450	885	885
								(10) 16d		1380	1585	1725		
	HUS26-3	---	14	4-5/8	4-1/2	2	1	(4) 16d	(4) 16d	1030	1185	1290	1115	1115
	HUS28-3	---	14	4-5/8	6-3/8	2	1	(6) 16d	(6) 16d	1545	1775	1930	1810	1810
	HD26-3	HU26-3	14	4-5/8	4-3/8	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2095	945	1135
HD28-3	---	14	4-5/8	6-3/8	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2100	945	1135	
									1680	1930	2100	945	1135	
(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	1355
	JUS210-3	LUS210-3	18	4-5/8	8-3/8	2	1	(8) 16d	(6) 16d	1800	2070	2250	1980	1980
	SUH28-3	---	16	4-5/8	7-1/8	3	1	(10) 10d	(6) 10d	1160	1335	1450	885	885
								(10) 16d		1380	1585	1725		
	SUH210-3	U210-3	16	4-5/8	8-3/8	2	1	(14) 10d	(6) 10d	1625	1870	2030	930	1115
								(14) 16d		1930	2220	2415		
	HUS28-3	---	14	4-5/8	6-3/8	2	1	(6) 16d	(6) 16d	1545	1775	1930	1810	1810
	HD28-3	---	14	4-5/8	6-3/8	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2100	945	1135
HUS210-3	---	14	4-5/8	8-3/8	2	1	(8) 16d	(8) 16d	2060	2370	2575	2210	2210	
HD210-3	HU210-3	14	4-5/8	8-1/4	2-1/2	1-1/8	(12) 16d	(12) 10d	2520	2900	3150	1890	2265	
(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	1980
	JUS212-3	---	18	4-5/8	10-3/8	2	1	(10) 16d	(6) 16d	2075	2385	2595	1980	1980
	SUH210-3	U210-3	16	4-5/8	8-3/8	2	1	(14) 10d	(6) 10d	1625	1870	2030	930	1115
								(14) 16d		1930	2220	2415		
	HUS210-3	---	14	4-5/8	8-3/8	2	1	(8) 16d	(8) 16d	2060	2370	2575	2210	2210
HUS212-3	---	14	4-5/8	10-3/8	2	1	(10) 16d	(10) 16d	2575	2960	3220	3060	3060	
HD212-3	HU212-3	14	4-5/8	10-1/4	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890	
(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	1980
	JUS212-3	---	18	4-5/8	10-3/8	2	1	(10) 16d	(6) 16d	2075	2385	2595	1980	1980
	JUS214-3	---	18	4-5/8	12-3/8	2	1	(12) 16d	(6) 16d	2350	2700	2935	1980	1980
	SUH210-3	U210-3	16	4-5/8	8-3/8	2	1	(14) 10d	(6) 10d	1625	1870	2030	930	1115
								(14) 16d		1930	2220	2415		
	HD210-3	HU210-3	14	4-5/8	8-1/4	2-1/2	1-1/8	(18) 16d	(12) 10d	2520	2900	3150	1890	2265
	HUS212-3	---	14	4-5/8	10-3/8	2	1	(10) 16d	(10) 16d	2575	2960	3220	3060	3060
HD212-3	HU212-3	14	4-5/8	10-1/4	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890	
HUS214-3	---	14	4-5/8	12-3/8	2	1	(12) 16d	(12) 16d	3090	3555	3865	3060	3060	
HD214-3	HU214-3	14	4-5/8	12-1/4	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890	
(3) 2 x 16	JUS214-3	---	18	4-5/8	12-3/8	2	1	(12) 16d	(6) 16d	2350	2700	2935	1980	1980
	HD212-3	HU212-3	14	4-5/8	10-1/4	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
	HUS214-3	---	14	4-5/8	12-3/8	2	1	(12) 16d	(12) 16d	3090	3555	3865	3060	3060
	HD214-3	HU214-3	14	4-5/8	12-1/4	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	HD216-3	HU216-3	14	4-5/8	14-1/4	2-1/2	1-1/8	(26) 16d	(12) 10d	3640	4185	4550	1890	2265
(4) 2 x 10	HD210-4	---	14	6-1/8	9	3-1/4	2	(24) 16d	(6) 10d	3360	3865	4200	1120	1345
(4) 2 x 12	HD210-4	---	14	6-1/8	9	3-1/4	2	(24) 16d	(6) 10d	3360	3865	4200	1120	1345
(4) 2 x 14	HD210-4	---	14	6-1/8	9	3-1/4	2	(24) 16d	(6) 10d	3360	3865	4200	1120	1345

Hangers

continued on next page

Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)				
				W	H	D	A	Header	Joist	DF-L / SP				
										Floor	Roof		Uplift ¹	
100%	115%	125%	133%	160%										
4 x 4	JUS44	LUS44	18	3-5/8	3-1/4	2	1	(4) 16d	(2) 16d	785	900	965	325	325
	SUH44	U44	16	3-9/16	2-7/8	2	1-1/8	(6) 10d	(2) 10d	695	800	870	310	370
								(6) 16d		830	950	1035		
	HD44	HU44	14	3-9/16	3-5/16	2-1/2	1-1/8	(4) 16d	(2) 10d	560	645	700	315	320
HUS44	--	14	3-5/8	3-3/16	2	1	(4) 16d	(2) 16d	795	915	995	495	495	
4 x 6	JUS46	LUS46	18	3-5/8	5	2	1	(4) 16d	(4) 16d	1020	1170	1220	1355	1355
	SUH44	U44	16	3-9/16	2-7/8	2	1-1/8	(6) 10d	(2) 10d	695	800	870	310	370
								(6) 16d		830	950	1035		
	SUH46	U46	16	3-9/16	4-13/16	2	1-1/8	(8) 10d	(4) 10d	930	1065	1160	620	740
								(8) 16d		1105	1270	1380		
	HUS44	--	14	3-5/8	3-3/16	2	1	(4) 16d	(2) 16d	795	915	995	495	495
HUS46	HUS46	14	3-5/8	5	2	1	(4) 16d	(4) 16d	1030	1185	1290	1115	1115	
HD46	HU46	14	3-9/16	4-15/16	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2095	945	1135	
4 x 8	JUS46	LUS46	18	3-5/8	5	2	1	(4) 16d	(4) 16d	1020	1170	1220	1355	1355
	JUS48	LUS48	18	3-5/8	6-7/8	2	1	(6) 16d	(4) 16d	1290	1485	1615	1355	1355
	SUH46	U46	16	3-9/16	4-13/16	2	1-1/8	(8) 10d	(4) 10d	930	1065	1160	620	740
								(8) 16d		1105	1270	1380		
	SUH48	--	16	3-9/16	6-1/16	2	1-1/8	(10) 10d	(4) 10d	1160	1335	1450	620	740
								(10) 16d		1380	1585	1725		
	HUS46	HUS46	14	3-5/8	5	2	1	(4) 16d	(4) 16d	1030	1185	1290	1115	1115
	HUS48	HUS48	14	3-5/8	7	2	1	(6) 16d	(6) 16d	1545	1775	1930	1810	1810
	HD46	HU46	14	3-9/16	4-15/16	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2095	945	1135
	HD48	HU48	14	3-9/16	6-7/8	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135
4 x 10	JUS48	LUS48	18	3-5/8	6-7/8	2	1	(6) 16d	(4) 16d	1290	1485	1615	1355	1355
	JUS410	LUS410	18	3-5/8	8-7/8	2	1	(8) 16d	(6) 16d	1800	2070	2250	1980	1980
	SUH48	--	16	3-9/16	6-1/16	2	1-1/8	(10) 10d	(4) 10d	1160	1335	1450	620	740
								(10) 16d		1380	1585	1725		
	SUH410	U410	16	3-9/16	8-3/8	2	1-1/8	(14) 10d	(6) 10d	1625	1870	2030	930	1115
								(14) 16d		1930	2220	2415		
	HUS48	HUS48	14	3-5/8	7	2	1	(6) 16d	(6) 16d	1545	1775	1930	1810	1810
	HD48	HU48	14	3-9/16	6-7/8	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135
	HUS410	HUS410	14	3-5/8	8-7/8	2	1	(8) 16d	(8) 16d	2060	2370	2575	2210	2210
	HD410	HU410	14	3-9/16	8-13/16	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
4 x 12	JUS410	LUS410	18	3-5/8	8-7/8	2	1	(8) 16d	(6) 16d	1800	2070	2250	1980	1980
	JUS412	--	18	3-5/8	10-7/8	2	1	(10) 16d	(6) 16d	2075	2385	2595	1980	1980
	SUH410	U410	16	3-9/16	8-3/8	2	1-1/8	(14) 10d	(6) 10d	1625	1870	2030	930	1115
								(14) 16d		1930	2220	2415		
	HD48	HU48	14	3-9/16	6-7/8	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135
	HUS410	HUS410	14	3-5/8	8-7/8	2	1	(8) 16d	(8) 16d	2060	2370	2575	2210	2210
	HD410	HU410	14	3-9/16	8-13/16	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
	HUS412	HUS412	14	3-5/8	10-7/8	2	1	(10) 16d	(10) 16d	2575	2960	3220	3060	3060
	HD412	HU412	14	3-9/16	10-13/16	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
	4 x 14	JUS412	--	18	3-5/8	10-7/8	2	1	(10) 16d	(6) 16d	2075	2385	2595	1980
JUS414		LUS414	18	3-5/8	12-7/8	2	1	(12) 16d	(6) 16d	2350	2700	2935	1980	1980
SUH414		U414	16	3-9/16	10-1/16	2	1-1/8	(16) 10d	(6) 10d	1855	2135	2320	930	1115
								(16) 16d		2210	2540	2760		
HD410		HU410	14	3-9/16	8-13/16	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
HUS412		HUS412	14	3-5/8	10-7/8	2	1	(10) 16d	(10) 16d	2575	2960	3220	3060	3060
HUS414	--	14	3-5/8	12-7/8	2	1	(12) 16d	(12) 16d	3090	3555	3865	3060	3060	
HD414	HU414	14	3-9/16	12-13/16	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890	

1) Uplift loads have been increased 33-1/3% or 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) 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.

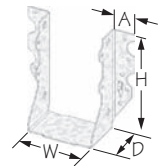
FACE MOUNT HANGER CHARTS CONTINUED



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Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)				
				W	H	D	A	Header	Joist	DF-L / SP				
										Floor	Roof		Uplift ¹	
				100%	115%	125%	133%	160%						
4 x 16	JUS414	LUS414	18	3-5/8	12-7/8	2	1	(12) 16d	(6) 16d	2350	2700	2935	1980	1980
	SUH414	U414	16	3-9/16	10-1/16	2	1-1/8	(16) 10d (16) 16d	(6) 10d	1855 2210	2135 2540	2320 2760	930	1115
	HD412	HU412	14	3-9/16	10-13/16	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
	HUS414	--	14	3-5/8	12-7/8	2	1	(12) 16d	(12) 16d	3090	3555	3865	3060	3060
	HD414	HU414	14	3-9/16	12-13/16	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	HD416	HU416	14	3-9/16	14-13/16	2-1/2	1-1/8	(26) 16d	(12) 10d	3640	4185	4550	1890	2265
4 x 18	HD414	HU414	14	3-9/16	12-13/16	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	HD416	HU416	14	3-9/16	14-13/16	2-1/2	1-1/8	(26) 16d	(12) 10d	3640	4185	4550	1890	2265
	HD418	--	14	3-9/16	16-1/2	2-1/2	1-1/4	(28) 16d	(8) 10d	3920	4510	4570	1260	1425
6 x 6	SUH66	U66	16	5-1/2	5	2	1	(8) 10d (8) 16d	(4) 10d	930 1105	1065 1270	1160 1380	620	740
	HD66	HU66	14	5-1/2	3-15/16	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2095	945	1135
6 x 8	SUH66	U66	16	5-1/2	5	2	1	(8) 10d (8) 16d	(4) 10d	930 1105	1065 1270	1160 1380	620	740
	HD66	HU66	14	5-1/2	3-15/16	2-1/2	1-1/8	(12) 16d	(6) 10d	1680	1930	2095	945	1135
	HD68	HU68	14	5-1/2	5-15/16	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135
	SUH610	U610	16	5-1/2	9	2	1	(14) 10d (14) 16d	(6) 10d (6) 10d	1625 1930	1870 2220	2030 2415	930	1115
6 x 10	HD68	HU68	14	5-1/2	5-15/16	2-1/2	1-1/8	(14) 16d	(6) 10d	1960	2255	2450	945	1135
	HD610	HU610	14	5-1/2	7-13/16	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
	SUH610	U610	16	5-1/2	9	2	1	(14) 10d (14) 16d	(6) 10d	1625 1930	1870 2220	2030 2415	930	1115
	HD610	HU610	14	5-1/2	7-13/16	2-1/2	1-1/8	(18) 16d	(10) 10d	2520	2900	3150	1575	1890
	HD612	HU612	14	5-1/2	9-13/16	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
	HD614	HU614	14	5-1/2	11-13/16	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
6 x 12	HD612	HU612	14	5-1/2	9-13/16	2-1/2	1-1/8	(22) 16d	(10) 10d	3080	3540	3850	1575	1890
	HD614	HU614	14	5-1/2	11-13/16	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	HD616	HU616	14	5-1/2	13-13/16	2-1/2	1-1/8	(26) 16d	(12) 10d	3640	4185	4550	1890	2265
6 x 14	HD614	HU614	14	5-1/2	11-13/16	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	HD616	HU616	14	5-1/2	13-13/16	2-1/2	1-1/8	(26) 16d	(12) 10d	3640	4185	4550	1890	2265
6 x 16	HD614	HU614	14	5-1/2	11-13/16	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	HD616	HU616	14	5-1/2	13-13/16	2-1/2	1-1/8	(26) 16d	(12) 10d	3640	4185	4550	1890	2265
	HD618	HU618	14	5-1/2	15-13/16	2-1/2	1-1/8	(28) 16d	(12) 10d	3920	4510	4570	1260	1425
6 x 18	HD614	HU614	14	5-1/2	11-13/16	2-1/2	1-1/8	(24) 16d	(10) 10d	3360	3865	4200	1575	1890
	HD616	HU616	14	5-1/2	13-13/16	2-1/2	1-1/8	(26) 16d	(12) 10d	3640	4185	4550	1890	2265
8 x 6	HD86	--	14	7-1/2	5-1/8	2-1/2	1-1/2	(10) 16d	(4) 16d	1410	1620	1740	750	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	1130	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	1505	1805
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	1505	1805
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	2255	2705
8 x 16	HD816	HU816	14	7-1/2	13-5/8	2-1/2	1-1/2	(26) 16d	(12) 16d	3665	4215	4585	2255	2705

- 1) Uplift loads have been increased 33-1/3% or 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.



Hangers

continued on next page

Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)				
				W	H	D	A	Header	Joist	DF-L / SP				
										Floor	Roof		Uplift ¹	
100%	115%	125%	133%	160%										
Rough Lumber Sizes														
2 x 4	SUH24R	U24R	16	2	3-1/16	2	1-3/16	(4) 10d (4) 16d	(2) 10d x 1-1/2	465 550	535 635	580 690	300	360
2 x 6 - 8	SUH26R	U26R	16	2	4-15/16	2	1-3/16	(6) 10d (6) 16d	(4) 10d x 1-1/2	695 830	800 950	870 1035	605	725
2 x 8 - 10	SUH28R	--	16	2	6-7/16	2	1-3/16	(8) 10d (8) 16d	(6) 10d x 1-1/2	930 1105	1065 1270	1160 1380	800	800
2 x 10 - 12 - 14	SUH210R	U210R	16	2	7-13/16	2	1-3/16	(10) 10d (10) 16d	(6) 10d x 1-1/2	1160 1380	1335 1585	1450 1725	905	1085
2 x 14 - 16	SUH214R	--	16	2	9-13/16	2	1	(12) 10d (12) 16d	(6) 10d x 1-1/2	1390 1655	1600 1905	1740 2070	905	1085
4 x 6	SUH44R	U44R	16	4	2-11/16	2	1-1/8	(6) 10d (6) 16d	(2) 16d	695 830	800 950	870 1035	370	440
4 x 8	SUH46R	U46R	16	4	4-11/16	2	1-1/8	(8) 10d (8) 16d	(4) 16d	930 1105	1065 1270	1160 1380	735	885
4 x 10	SUH410R	U410R	16	4	8-3/16	2	1-1/8	(14) 10d (14) 16d	(6) 16d	1625 1930	1870 2220	2030 2415	1105	1325
6 x 8	SUH66R	U66R	16	6	5	2	1	(8) 10d (8) 16d	(4) 16d	930 1105	1065 1270	1160 1380	735	885
6 x 10	SUH610R	U610R	16	6	9	2	1	(14) 10d (14) 16d	(6) 16d	1625 1930	1870 2220	2030 2415	1105	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	3080	3540	3850	1575	1890
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	3360	3865	4200	1575	1890
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	3080	3540	3850	1865	2240
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	3640	4185	4550	2240	2355

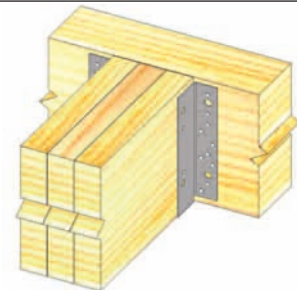
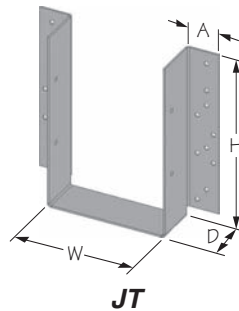
- 1) Uplift loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.
- 2) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 3) Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
- 4) 16d sinkers (9 gauge x 3-1/4" long) may be used at 0.84 of the table load where 16d commons are specified.

HEAVY-DUTY ORNAMENTAL HANGERS – J SERIES

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

Some model designs may vary from illustration shown



Typical JT installation

Installation:

- Use all specified fasteners. See Product Notes, page 16.

Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)				
				W	H	D	A	Header	Joist	DF-L / SP				
										Floor	Roof		Uplift ¹	
100%	115%	125%	133%	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	535	640
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	535	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	640	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	640	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	640	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	620	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	640	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	755	910

- 1) Uplift loads have been increased 33-1/3% or 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.

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

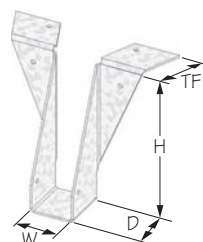
Finish: KLB, KB & KHB – G90 galvanizing;
KHHB – USP primer

Codes: ICBO 2725, L.A. City RR 25104

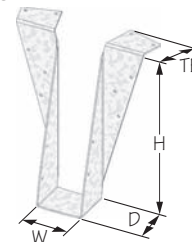
Installation:

- Use all specified fasteners. See Product Notes, page 16.
- 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.**

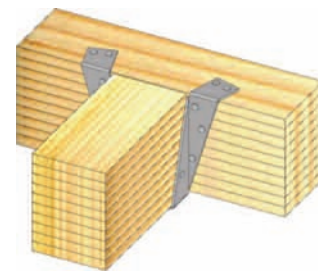
See Welded Installation Chart on page 209.



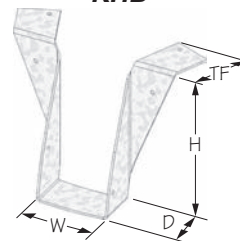
KLB



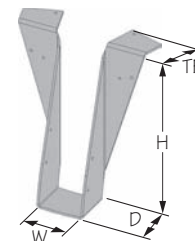
KHB



Typical KHHB installation



KB



KHHB

HEAVY-DUTY TOP MOUNT HANGERS – HDO & HHDO SERIES

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

HHDO – Installs with NA20D nails for higher load capacities.

Materials: 12 gauge

Finish: G90 galvanizing

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

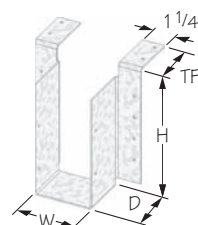
Codes: NER 478, FL815, L.A. City RR 25283

Installation:

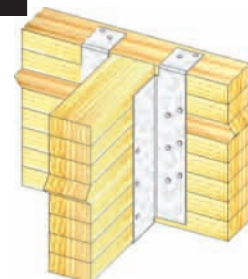
- Use all specified fasteners. See Product Notes, page 16.
- NA20D nails are supplied with HHDO hangers.
- Check top flange dimensions to ensure compatibility with header widths.

• Do not use for welded or nailer applications. Reference Specialty Options chart on page 206 for hanger options.

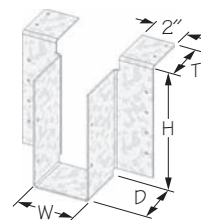
• HHDO hangers are not recommended for use with LVL, PSL, or LSL members.



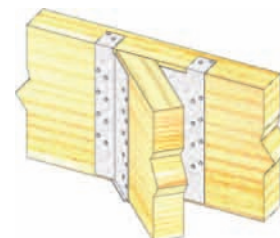
HDO28-2



Typical HHDO312512 glulam installation



HHDO28-2

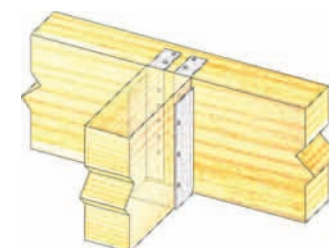


Typical HDO/HHDO skewed option installation

Specialty Options Chart – refer to Specialty Options pages 206 to 209 for additional details.

Option	USP Series	Skewed ^{1,3}	Sloped Seat ^{2,3}	Sloped / Skewed ^{1,2,3}	Inverted Flange
Range	HDO	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"
	HHDO	1° to 50°	1° to 45°	See Sloped Seat and Skewed	Not available in widths less than 4-1/2"
Allowable Loads	HDO	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.
	HHDO				
Ordering	HDO	Add SK, angle required, and right (R) or left (L), to product number. Ex. HHDO210-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Ex. HHDO210-SL30D	See Sloped Seat and Skewed. Ex. HHDO210-SK45RSL30D	Add IF to product number. Ex. HHDO610IF
	HHDO				

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.



Typical HDO410IF inverted flange installation HHDO similar

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 Chart on page 101.

Codes: NER 568, ICBO 2725, FL820R-1, L.A. City RR 25104

Installation:

- Use all specified fasteners. See Product Notes, page 16.
- 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 120.

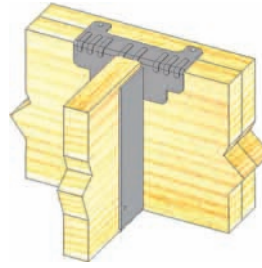
USP Stock No.	Nailer Size	Fastener Schedule ^{1,2,3}		Allowable Loads (Lbs.) ⁴	
		Header	Joist	DF-L / SYP	S-P-F
SW	2X	(2) 10d x 1-1/2"	(2) 10d x 1-1/2"	1635	1115
SWH	2X	(2) 10d x 1-1/2"	(2) 10d	2600	1770
	3X	(2) 16d x 2-1/2"	(2) 10d	3350	2280
KHW	3X	(4) 16d x 2-1/2"	(2) 10d	5180	3525

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.

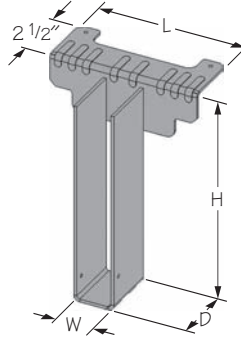
Specialty Options Chart – refer to Specialty Options pages 206 to 209 for additional details.

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

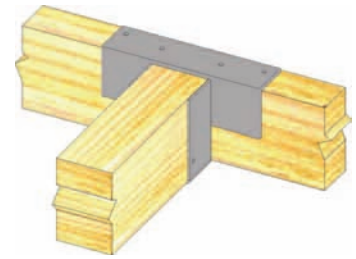
1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
3) Sloped top flanges with greater than 15° may have additional header nails.



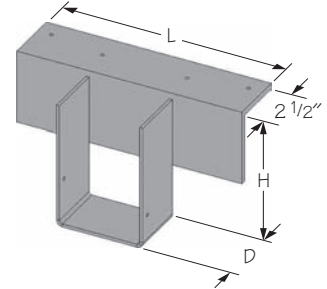
Typical SW210 installation



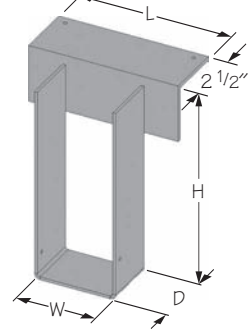
SW210



Typical KHW46 installation



KHW46



SWH410

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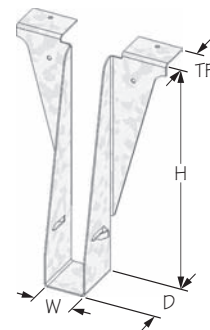
LIGHT GAUGE PURLIN HANGERS – HL SERIES

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: ICBO 2039

Installation:

- Use all specified fasteners. See Product Notes, page 16.



HL210

continued on next page

TOP MOUNT HANGER CHARTS



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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}				
				W	H	D	L	TF	Header	Joist	DF-L / SP				
											Floor	Roof			Uplift ^{1,2}
100%	115%	125%	133%	160%											
2 x 4	HDO24	HU24TF	12	1-9/16	3-7/16	2-1/4	---	2-1/2	(6) 16d	(2) 10d x 1-1/2	2170	2170	2170	315	315
2 x 6	HLB26	JB26	18	1-9/16	5-3/8	1-1/2	---	1-5/16	(4) 16d	(2) prongs	1270	1270	1270	---	---
	KLB26	LB26	14	1-9/16	5-3/8	1-3/4	---	1-3/8	(4) 16d	(2) 10d x 1-1/2	1235	1280	1305	305	365
	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	---	---
2 x 8	HDO26	HU26TF	12	1-9/16	5-3/8	2-1/4	---	2-1/2	(10) 16d	(4) 10d x 1-1/2	2580	2615	2615	630	755
	HLB28	JB28	18	1-9/16	7-5/16	1-3/4	---	1-5/16	(4) 16d	(2) prongs	1590	1590	1590	---	---
	KLB28	LB28	14	1-9/16	7-1/4	1-3/4	---	1-3/8	(4) 16d	(2) 10d x 1-1/2	1235	1280	1305	305	365
2 x 10	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	---	---
	HDO28	HU28TF	12	1-9/16	7-1/8	2-1/4	---	2-1/2	(10) 16d	(4) 10d x 1-1/2	2580	2650	2700	630	755
	HL210	JB210	18	1-9/16	9-5/16	2	---	1-5/16	(4) 16d	(2) prongs	1590	1590	1590	---	---
2 x 12	KLB210	LB210	14	1-9/16	9-1/4	2	---	1-3/8	(4) 16d	(2) 10d x 1-1/2	1365	1365	1365	305	365
	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	---	---
	HDO210	HU210TF	12	1-9/16	9-1/8	2-1/4	---	2-1/2	(12) 16d	(4) 10d x 1-1/2	2580	2650	2700	630	725
2 x 14	HL212	JB212	18	1-9/16	11-1/4	2-1/8	---	1-5/16	(4) 16d	(2) prongs	1590	1590	1590	---	---
	KLB212	LB212	14	1-9/16	11-1/8	2	---	1-3/8	(4) 16d	(2) 10d x 1-1/2	1365	1365	1365	305	365
	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	---	---
2 x 16	HDO212	HU212TF	12	1-9/16	11	2-1/4	---	2-1/2	(14) 16d	(6) 10d x 1-1/2	2355	2355	2355	945	1135
	HL214	JB214	18	1-9/16	13-1/8	2	---	2-1/2	(6) 16d	(2) 10d x 1-1/2	1590	1590	1590	300	360
	KLB214	LB214	14	1-9/16	13-1/8	2	---	1-1/2	(4) 16d	(2) 10d x 1-1/2	1365	1365	1365	305	365
2 x 16	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	---	---
	HDO214	HU214TF	12	1-9/16	13	2-1/4	---	2-1/2	(16) 16d	(6) 10d x 1-1/2	2815	2925	2995	945	1050
	KLB216	LB216	14	1-9/16	15-1/8	2	---	1-1/2	(4) 16d	(2) 10d x 1-1/2	1365	1365	1365	305	365
3 x 4	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	---	---
	HDO216	HU216TF	12	1-9/16	15	2-1/4	---	2-1/2	(18) 16d	(8) 10d x 1-1/2	3055	3195	3290	1260	1510
	HDO34	HU34TF	12	2-9/16	3-7/16	2-1/2	---	2-1/2	(8) 16d	(2) 10d x 1-1/2	2665	2665	2665	315	315
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	---	---
	HDO36	HU36TF	12	2-9/16	5-3/8	2-1/2	---	2-1/2	(10) 16d	(4) 10d x 1-1/2	3010	3010	3010	630	755
	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	---	---
3 x 8	KB38	B38	12	2-9/16	7-1/4	2	---	2-1/2	(4) NA20D	(2) 10d x 1-1/2	2420	2420	2420	315	380
	HDO38	HU38TF	12	2-9/16	7-1/8	2-1/2	---	2-1/2	(12) 16d	(4) 10d x 1-1/2	3605	3605	3605	630	755
	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	---	---
3 x 10	KB310	B310	12	2-9/16	9-1/4	2	---	2-1/2	(4) NA20D	(2) 10d x 1-1/2	2420	2420	2420	315	380
	HDO310	HU310TF	12	2-9/16	9-1/8	2-1/2	---	2-1/2	(14) 16d	(6) 10d x 1-1/2	4165	4165	4165	945	1135
	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	---	---
3 x 12	KB312	B312	12	2-9/16	11-1/8	2-3/8	---	2-1/2	(4) NA20D	(2) 10d x 1-1/2	2420	2420	2420	315	380
	HDO312	HU312TF	12	2-9/16	11	2-1/2	---	2-1/2	(16) 16d	(6) 10d x 1-1/2	4475	4475	4475	945	1135
	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	---	---
3 x 14	KB314	B314	12	2-9/16	13-1/8	2-3/8	---	2-1/2	(4) NA20D	(2) 10d x 1-1/2	2420	2420	2420	315	380
	HDO314	HU314TF	12	2-9/16	13	2-1/2	---	2-1/2	(18) 16d	(8) 10d x 1-1/2	4475	4475	4475	1260	1315
	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	---	---
3 x 16	KB316	B316	12	2-9/16	15-1/8	2-3/8	---	2-1/2	(4) NA20D	(2) 10d x 1-1/2	2420	2420	2420	315	380
	HDO316	HU316TF	12	2-9/16	15	2-1/2	---	2-1/2	(20) 16d	(8) 10d x 1-1/2	4850	4990	5085	1260	1510
	HDO24-2	HU24-2TF	12	3-1/8	3-7/16	2-1/2	---	2-1/2	(8) 16d	(2) 10d	2445	2445	2445	335	400
(2) 2 x 4	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	---	---
	HDO26-2	HU26-2TF	12	3-1/8	5-3/8	2-1/2	---	2-1/2	(10) 16d	(4) 10d	3050	3050	3050	665	800
	HHDO26-2	---	12	3-1/8	5-1/2	3	---	2-1/2	(10) NA20D	(4) NA20D	3700	3850	3850	915	915
(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	---	---
	HDO28-2	HU28-2TF	12	3-1/8	7-1/8	2-1/2	---	2-1/2	(12) 16d	(4) 10d	3825	3825	3825	665	800
	HHDO28-2	---	12	3-1/8	7-1/4	3	---	2-1/2	(12) NA20D	(4) NA20D	4050	4255	4395	915	915
(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	---	---
	HDO210-2	HU210-2TF	12	3-1/8	9-1/8	2-1/2	---	2-1/2	(14) 16d	(6) 10d	4560	4565	4565	1000	1200
	HHDO210-2	---	12	3-1/8	9-1/4	3	---	2-1/2	(14) NA20D	(6) NA20D	4395	4655	4830	1390	1670
(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	---	---
	HDO212-2	HU212-2TF	12	3-1/8	11	2-1/2	---	2-1/2	(16) 16d	(6) 10d	4855	5200	5435	1000	1200
	HHDO212-2	---	12	3-1/8	11-1/8	3	---	2-1/2	(16) NA20D	(6) NA20D	4745	5055	5265	1390	1670
(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	---	---
	HDO214-2	HU214-2TF	12	3-1/8	13	2-1/2	---	2-1/2	(18) 16d	(8) 10d	5150	5410	5410	1335	1600
	HHDO214-2	---	12	3-1/8	13-1/8	3-1/2	---	2-1/2	(18) NA20D	(8) NA20D	5090	5460	5700	1695	1695
(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	---	---
	HDO216-2	HU216-2TF	12	3-1/8	15	2-1/2	---	2-1/2	(20) 16d	(8) 10d	5445	5840	5940	1335	1600
	HHDO216-2	---	12	3-1/8	15-1/8	3-1/2	---	2-1/2	(20) NA20D	(8) NA20D	5440	5860	6135	1695	1695
4 x 4	HDO44	HU44TF	12	3-9/16	3-7/16	2-1/2	---	2-1/2	(8) 16d	(2) 10d	2445	2445	2445	335	400

continued on next page

Beam/ Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions					Fastener Schedule ^{3,4,5,6}		Allowable Loads (Lbs.) ^{7,8}				
				W	H	D	L	TF	Header	Joist	DF-L / SP			Uplift ^{1,2}	
											100%	115%	125%	133%	160%
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	---	---
	HDO46	HU46TF	12	3-9/16	5-3/8	2-1/2	---	2-1/2	(10) 16d	(4) 10d	3050	3050	3050	665	800
	HHDO46	---	12	3-9/16	5-1/2	3	---	2-1/2	(10) NA20D	(4) NA20D	3700	3850	3850	915	915
	KHW46	HW46	3/10	3-9/16	5-3/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---
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	---	---
	KB48	B48	12	3-9/16	7-1/4	2	---	2-1/2	(4) NA20D	(2) NA20D	2420	2420	2420	465	555
	HDO48	HU48TF	12	3-9/16	7-1/8	2-1/2	---	2-1/2	(12) 16d	(4) 10d	3825	3825	3825	665	800
	HHDO48	---	12	3-9/16	7-1/4	3	---	2-1/2	(12) NA20D	(4) NA20D	4050	4255	4395	915	915
	KHW48	HW48	3/10	3-9/16	7-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---
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	---	---
	KB410	B410	12	3-9/16	9-1/4	2-3/8	---	2-1/2	(4) NA20D	(2) NA20D	2420	2420	2420	465	555
	HDO410	HU410TF	12	3-9/16	9-1/8	2-1/2	---	2-1/2	(14) 16d	(6) 10d	4560	4565	4565	1000	1200
	HHDO410	---	12	3-9/16	9-1/4	3	---	2-1/2	(14) NA20D	(6) NA20D	4395	4655	4830	1390	1670
	KHW410	HW410	3/10	3-9/16	9-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---
4 x 12	KB412	B412	12	3-9/16	11-1/8	2-3/8	---	2-1/2	(6) NA20D	(2) NA20D	2870	2870	2870	465	555
	KHB412	---	12	3-9/16	11-1/8	3	---	2-1/2	(10) NA20D	(4) NA20D	4265	4265	4265	930	1115
	HDO412	HU412TF	12	3-9/16	11	2-1/2	---	2-1/2	(16) 16d	(6) 10d	4855	5200	5435	1000	1200
	HHDO412	---	12	3-9/16	11-1/8	3	---	2-1/2	(16) NA20D	(6) NA20D	4745	5055	5265	1390	1670
	KHHB412	HHB412	7	3-9/16	11-1/8	3	---	2-1/2	(4) NA25	(2) NA25	4270	4350	4400	695	830
	SWH412	WNP412	7/12	3-9/16	11-1/8	2-1/2	7	2-1/2	(2) 10d	(2) 10d	3305	3305	3305	---	---
	KHW412	HW412	3/10	3-9/16	11-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---
4 x 14	KB414	B414	12	3-9/16	13-1/8	2-3/8	---	2-1/2	(6) NA20D	(2) NA20D	2870	2870	2870	465	555
	KHB414	---	12	3-9/16	13-1/8	3	---	2-1/2	(10) NA20D	(4) NA20D	4265	4265	4265	930	1115
	HDO414	HU414TF	12	3-9/16	13	2-1/2	---	2-1/2	(18) 16d	(8) 10d	5150	5410	5410	1335	1600
	HHDO414	---	12	3-9/16	13-1/8	3	---	2-1/2	(18) NA20D	(8) NA20D	5090	5460	5700	1695	1695
	KHHB414	HHB414	7	3-9/16	13-1/8	3	---	2-1/2	(6) NA25	(4) NA25	4790	4945	5050	1385	1665
	SWH414	WNP414	7/12	3-9/16	13-1/8	2-1/2	7	2-1/2	(2) 10d	(2) 10d	3305	3305	3305	---	---
	KHW414	HW414	3/10	3-9/16	13-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---
4 x 16	KB416	B416	12	3-9/16	15-1/8	2-3/8	---	2-1/2	(6) NA20D	(2) NA20D	2870	2870	2870	465	555
	KHB416	---	12	3-9/16	15-1/8	3	---	2-1/2	(10) NA20D	(4) NA20D	4265	4265	4265	930	1115
	HDO416	HU416TF	12	3-9/16	15	2-1/2	---	2-1/2	(20) 16d	(8) 10d	5445	5880	6170	1335	1600
	HHDO416	---	12	3-9/16	15-1/8	3-1/2	---	2-1/2	(20) NA20D	(8) NA20D	5440	5860	6135	1695	1695
	KHHB416	HHB416	7	3-9/16	15-1/8	3	---	2-1/2	(6) NA25	(4) NA25	4790	4945	5050	1385	1665
	SWH416	WNP416	7/12	3-9/16	15-1/8	2-1/2	7	2-1/2	(2) 10d	(2) 10d	3305	3305	3305	---	---
	KHW416	HW416	3/10	3-9/16	15-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---
(3) 2 x 10	HDO210-3	HU210-3TF	12	4-11/16	9-1/8	2-1/2	---	2-1/2	(14) 16d	(6) 16d	4560	4565	4565	1175	1410
	HHDO210-3	---	12	4-11/16	9-1/4	3	---	2-1/2	(14) NA20D	(6) NA20D	4395	4655	4830	1390	1670
(3) 2 x 12	HDO212-3	HU212-3TF	12	4-11/16	11	2-1/2	---	2-1/2	(16) 16d	(6) 16d	4855	5200	5435	1175	1410
	HHDO212-3	---	12	4-11/16	11-1/8	3	---	2-1/2	(16) NA20D	(6) NA20D	4745	5055	5265	1390	1670
(3) 2 x 14	HDO214-3	HU214-3TF	12	4-11/16	13	2-1/2	---	2-1/2	(18) 16d	(8) 16d	5150	5410	5410	1570	1710
	HHDO214-3	---	12	4-11/16	13-1/8	3-1/2	---	2-1/2	(18) NA20D	(8) NA20D	5090	5460	5700	1695	1695
(3) 2 x 16	HDO216-3	HU216-3TF	12	4-11/16	15	2-1/2	---	2-1/2	(20) 16d	(8) 16d	5445	5880	6170	1570	1880
	HHDO216-3	---	12	4-11/16	15-1/8	3-1/2	---	2-1/2	(20) NA20D	(8) NA20D	5440	5860	6135	1695	1695
	HDO216-3	HU216-3TF	12	4-11/16	15	2-1/2	---	2-1/2	(20) 16d	(8) 16d	5445	5880	6170	1570	1880
6 x 6	HDO66	HU66TF	12	5-1/2	5-3/8	2-1/2	---	2-1/2	(10) 16d	(4) 16d	3050	3050	3050	785	940
	HHDO66	---	12	5-9/16	5-3/8	2-1/2	---	2-1/2	(10) NA20D	(4) NA20D	3700	3850	3850	915	915
	SWH66	WNP66	7/12	5-1/2	5-3/8	2-1/2	7	2-1/2	(2) 10d	(2) 10d	3305	3305	3305	---	---
	KHW66	HW66	3/10	5-1/2	5-3/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---
6 x 8	HDO68	HU68TF	12	5-1/2	7-1/8	2-1/2	---	2-1/2	(12) 16d	(4) 16d	3825	3825	3825	785	940
	HHDO68	---	12	5-9/16	7-1/4	2-1/2	---	2-1/2	(12) NA20D	(4) NA20D	4050	4255	4395	915	915
	KHHB68	HHB68	7	5-1/2	7-1/4	3	---	2-1/2	(4) NA25	(2) NA25	4270	4350	4400	695	830
	SWH68	WNP68	7/12	5-1/2	7-1/8	2-1/2	7	2-1/2	(2) 10d	(2) 10d	3305	3305	3305	---	---
	KHW68	HW68	3/10	5-1/2	7-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---

1) Uplift Loads have been increased 33-1/3% or 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.

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Beam/ Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions					Fastener Schedule ^{2,3,4,5}		Allowable Loads (Lbs.) ^{6,7}					
				W	H	D	L	TF	Header	Joist	DF-L / SP					
											Floor		Roof		Uplift ¹	
											100%	115%	125%	133%	160%	
6 x 10	KB610	B610	12	5-1/2	9-1/4	2-3/8	---	2-1/2	(10) NA20D	(2) NA20D	3495	3495	3495	465	555	
	HDO610	HU610TF	12	5-1/2	9-1/8	2-1/2	---	2-1/2	(14) 16d	(6) 16d	4560	4565	4565	1175	1410	
	HHDO610	---	12	5-9/16	9-1/4	2-1/2	---	2-1/2	(14) NA20D	(6) NA20D	4395	4655	4830	1390	1670	
	KHHB610	HHB610	7	5-1/2	9-1/4	3	---	2-1/2	(4) NA25	(2) NA25	4270	4350	4400	695	830	
	SWH610	WNP610	7/12	5-1/2	9-1/8	2-1/2	7	2-1/2	(2) 10d	(2) 10d	3305	3305	3305	---	---	
	KHW610	HW610	3/10	5-1/2	9-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---	
6 x 12	KB612	B612	12	5-1/2	11-1/8	2-3/8	---	2-1/2	(10) NA20D	(2) NA20D	3495	3495	3495	465	555	
	HDO612	HU612TF	12	5-1/2	11	2-1/2	---	2-1/2	(16) 16d	(6) 16d	4855	5200	5435	1175	1410	
	HHDO612	---	12	5-9/16	11-1/8	3	---	2-1/2	(16) NA20D	(6) NA20D	4745	5055	5265	1390	1670	
	KHHB612	HHB612	7	5-1/2	11-1/8	3	---	2-1/2	(10) NA25	(6) NA25	5310	5545	5700	2080	2495	
	KHW612	HW612	3/10	5-1/2	11-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---	
	KB614	B614	12	5-1/2	13-1/8	2-3/8	---	2-1/2	(10) NA20D	(2) NA20D	3495	3495	3495	465	555	
6 x 14	HDO614	HU614TF	12	5-1/2	13	2-1/2	---	2-1/2	(18) 16d	(8) 16d	5150	5410	5410	1570	1710	
	HHDO614	---	12	5-9/16	13-1/8	3	---	2-1/2	(18) NA20D	(8) NA20D	5090	5460	5700	1695	1695	
	KHHB614	HHB614	7	5-1/2	13-1/8	3	---	2-1/2	(10) NA25	(6) NA25	5310	5545	5700	2080	2495	
	KHW614	HW614	3/10	5-1/2	13-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---	
	KB616	B616	12	5-1/2	15-1/8	2-3/8	---	2-1/2	(10) NA20D	(2) NA20D	3495	3495	3495	465	555	
	6 x 16	HDO616	HU616TF	12	5-1/2	15	2-1/2	---	2-1/2	(20) 16d	(8) 16d	5445	5880	6170	1570	1880
HHDO616		---	12	5-9/16	15-1/8	3	---	2-1/2	(20) NA20D	(8) NA20D	5440	5860	6135	1695	1695	
KHHB616		HHB616	7	5-1/2	15-1/8	3	---	2-1/2	(10) NA25	(6) NA25	5310	5545	5700	2080	2495	
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 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 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 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	---	---	
	KHHB812	HHB812	7	7-1/2	11-1/8	3	---	2-1/2	(10) NA25	(6) NA25	5310	5545	5700	2080	2495	
8 x 12	KHW812	HW812	3/10	7-1/2	11-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---	
	KHHB814	HHB814	7	7-1/2	13-1/8	3	---	2-1/2	(10) NA25	(6) NA25	5310	5545	5700	2080	2495	
8 x 14	KHW814	HW814	3/10	7-1/2	13-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---	
	KHHB816	HHB816	7	7-1/2	15-1/8	3	---	2-1/2	(10) NA25	(6) NA25	5310	5545	5700	2080	2495	
8 x 16	KHW816	HW816	3/10	7-1/2	15-1/8	2-1/2	10	2-1/2	(4) NA20D	(2) 10d	5335	5335	5335	---	---	
	Glulam Sizes⁸															
2-1/2 glulam	KHW26	---	3/10	2-11/16	specify	4	10	2-1/2	(4) NA20D	(4) 10d x 1-1/2	5295	5295	5295	---	---	
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	---	---	
3-1/8 x 12	HHDO312512	---	12	3-1/4	12	3	---	2-1/2	(16) NA20D	(6) NA20D	4745	5055	5265	1390	1670	
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	---	---	
5-1/8 x 12	HHDO512512	---	12	5-1/4	12	3	---	2-1/2	(16) NA20D	(6) NA20D	4745	5055	5265	1390	1670	
5-1/8 x 16-1/2	HHDO512516	---	12	5-1/4	16-1/2	3	---	2-1/2	(24) NA20D	(8) NA20D	6290	6290	6290	1695	1695	

- 1) Uplift Loads have been increased 33-1/3% or 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.

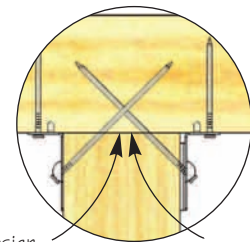
MULTI-PURPOSE JOIST HANGERS – JH SERIES

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: NER 568, FL820-R1
Patents: #5,217,317

Installation:

- Use all specified fasteners. See Product Notes, page 16.
- 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.



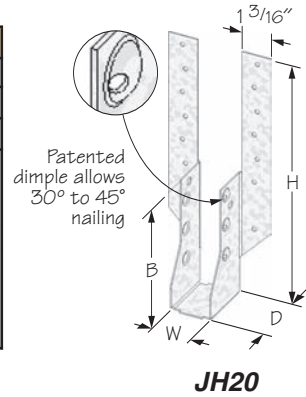
Double shear nail design features fewer nails and faster installation

Uses standard length nails

Hangers

continued on next page

Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Application	Fastener Schedule ^{2,3}			Allowable Loads (Lbs.)				
				W	H	D	B		Header		Joist	DF-L / SP				
									Top	Face		Floor	Roof	Uplift ¹		
100%	115%	125%	133%	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	1880	2040	2140	1285	1285
								2 x 8	(2) 10d	(8) 10d	(6) 10d	2515	2740	2890	1285	1285
								2 x 10	(2) 10d	(12) 10d	(6) 10d	2265	2560	2755	1285	1285
(2) 2 x 6 - 12	JH30	---	18	3-1/4	10-3/16	2-1/4	4-1/4	2 x 12	---	(14) 10d	(6) 10d	2185	2515	2735	1285	1285
								2 x 6	(2) 10d	(6) 10d	(6) 10d	2210	2400	2525	1285	1285
								2 x 8	(2) 10d	(10) 10d	(6) 10d	2840	2900	2900	1285	1285
								2 x 10	(2) 10d	(14) 10d	(6) 10d	2590	2900	2900	1285	1285
								2 x 12	---	(16) 10d	(6) 10d	2415	2775	2900	1285	1285



- 1) Uplift Loads have been increased 33-1/3% or 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.

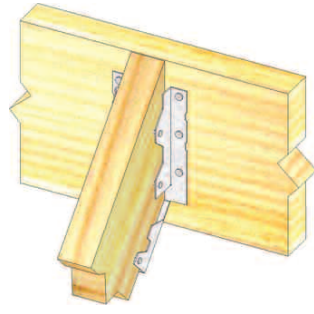
LIGHT SLOPE HANGERS – LS & TMU26 SERIES

A field-adjustable seat gives the LS & TMU26 hanger application flexibility.

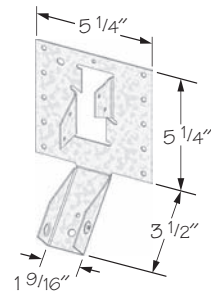
- LS** – Slopes from 0° to 30° down (0 to 7:12 pitch down).
- TMU26** – Slopes from 35° up to 45° down (8:12 pitch up to 12:12 pitch down).

- Materials:** 18 gauge
- Finish:** G90 galvanizing
- Options:** TMU26 is available in Triple Zinc. To order, add TZ to stock number, as in **TMU26-TZ**.
- Codes:** NER 564, NER 478, ICBO 2039, FL815, FL817, L.A. City RR 23888 & RR 25283

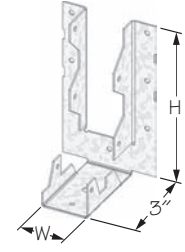
- Installation:**
- Use all specified fasteners. See Product Notes, page 16.
 - The **LS** can be field adjusted to slopes from 0° to 30° down.
 - **TMU26** can be field adjusted slopes from 35° up to 45° down.



Typical LS268 installation



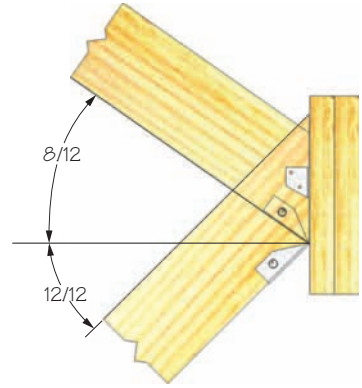
TMU26



LS268

Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions		Fastener Schedule ^{2,3}		Allowable Loads (Lbs.)				
				W	H	Header	Joist	DF-L / SP				
								Floor	Roof	Uplift ¹		
100%	115%	125%	133%	160%								
2 x 6 - 8	LS268	---	18	1-9/16	5-1/2	(7) 16d	(7) 10d x 1-1/2	960	1105	1170	675	675
2 x 10	LS210	---	18	1-9/16	7-7/8	(9) 16d	(9) 10d x 1-1/2	1235	1370	1370	1035	1035
2 x 6 - 8	TMU26	---	18	1-9/16	5-1/4	(10) 10d	(7) 10d x 1-1/2	1140	1305	1305	640	640

- 1) Uplift loads are increased 33-1/3% or 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.



TMU Pitch Range

SKewed 45° HANGERS – SKH & SKHH SERIES



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

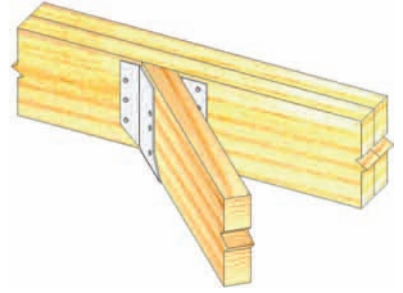
Options: SKH26L/R, SKH28L/R, & SKH210L/R are available in Triple Zinc. To order, add TZ to stock number, as in **SKH26L-TZ**.

Codes: NER 478, L.A. City RR 25283, FL815,

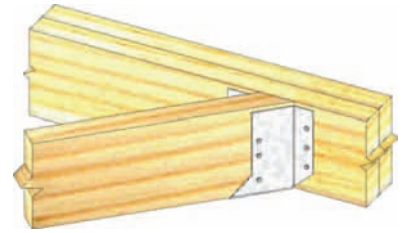
Dade County, FL 06-0601.03 — SKH26L/R

Installation:

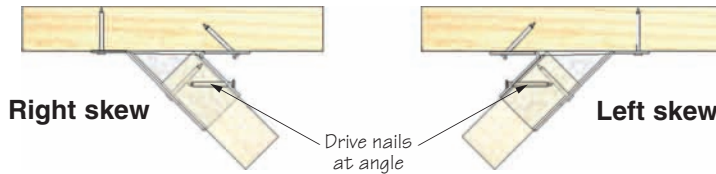
- Use all specified fasteners. See Product Notes, page 16.
- The hangers listed are for standard sizes and will accommodate a 40° to 50° skew range.
- Most sizes do not require a miter cut for installation. Refer to chart footnote identified with an asterisk.
- Illustrations show left and right skews. (**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

Beam / Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule ^{2,3}		Allowable Loads (Lbs.)									
				W	H	D	Header	Joist	DF-L / SP			S-P-F						
									Floor	Roof	Uplift ¹	Floor	Roof	Uplift ¹				
100%	115%	125%	133%	160%	100%	115%	125%	133%	160%									
2 x 4 - 6	SKH24L/R	SUR/L24	16	1-9/16	3-1/4	1-7/8	(4) 16d	(4) 10d x 1-1/2	510	510	510	565	565	475	510	510	515	565
2 x 6 - 8	SKH26L/R	SUR/L26	16	1-9/16	5-1/4	1-7/8	(6) 16d	(6) 10d x 1-1/2	830	890	890	905	1085	715	820	890	775	930
	SKH26L/R-GC	---					(6) N16C-GC	(6) N10-GC										
2 x 8 - 10 - 12	SKH28L/R	---	16	1-9/16	7-1/4	1-7/8	(10) 16d	(8) 10d x 1-1/2	1380	1465	1465	1205	1360	1190	1370	1465	1035	1240
2 x 10 - 12 - 14	SKH210L/R	SUR/L210	16	1-9/16	9-1/4	1-7/8	(14) 16d	(10) 10d x 1-1/2	1790	1790	1790	1505	1565	1665	1790	1790	1295	1550
	SKH210L/R-GC	---					(14) N16C-GC	(10) N10-GC										
1-1/2 x 9-1/4 - 14	SKH1520L/R	---	16	1-9/16	9-1/4	1-7/8	(14) 10d	(10) 10d x 1-1/2	1340	1340	1340	1505	1565	1340	1340	1340	1295	1550
1-1/2 x 11-1/4 - 18	SKH1524L/R	SUR/L214	16	1-9/16	11-1/4	1-7/8	(16) 10d	(10) 10d x 1-1/2	1855	1990	1990	1505	1565	1600	1840	1990	1295	1550
1-5/8 x 9-1/4 - 14	SKH1620L/R	---	16	1-11/16	9-3/16	1-7/8	(14) 10d	(10) 10d x 1-1/2	1340	1340	1340	1505	1565	1340	1340	1340	1295	1550
1-5/8 x 11-1/4 - 18	SKH1624L/R	---	16	1-11/16	11-3/16	1-7/8	(16) 10d	(10) 10d x 1-1/2	1855	1990	1990	1505	1565	1600	1840	1990	1295	1550
1 3/4 x 9-1/4 - 14	SKH1720L/R	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	1505	1565	1400	1610	1750	1295	1550
1-3/4 x 11-1/4 - 18	SKH1724L/R	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	1505	1565	1600	1840	2000	1295	1550
2 x 9-1/4 - 14	SKH2020L/R	SUR/L12.06/9, SUR/L2.1/9	16	2-1/8	9	1-7/8	(14) 10d	(10) 10d x 1-1/2	1625	1870	2030	1505	1565	1400	1610	1750	1295	1550
2 x 11-1/4 - 18	SKH2024L/R	SUR/L2.1/11	16	2-1/8	11	1-7/8	(16) 10d	(10) 10d x 1-1/2	1855	2135	2320	1505	1565	1600	1840	2000	1295	1550
2-1/4 - 2-5/16 x 9-1/4 - 14	SKH2320L/R	SUR/L13510/12	16	2-3/8	8-7/8	1-7/8	(14) 10d	(10) 10d x 1-1/2	1625	1870	2030	1505	1565	1400	1610	1750	1295	1550
2-1/4 - 2-5/16 x 11-1/4 - 18	SKH2324L/R	SUR/L13514/20	16	2-3/8	10-7/8	1-7/8	(16) 10d	(10) 10d x 1-1/2	1855	2135	2320	1505	1565	1600	1840	2000	1295	1550
3 x 6 - 8	SKH36L/R	---	16	2-9/16	4-3/4	1-3/8	(6) 16d	(6) 10d x 1-1/2	830	950	1025	905	1085	715	820	895	775	930
3 x 8 - 10 - 12	SKH38L/R	---	16	2-9/16	6-3/4	1-3/8	(10) 16d	(8) 10d x 1-1/2	1380	1585	1585	1205	1360	1190	1370	1490	1035	1240
3 x 10 - 12 - 14	SKH310L/R	SUR/L310	16	2-9/16	8-3/4	1-3/8	(14) 16d	(10) 10d x 1-1/2	1930	2220	2250	1505	1565	1665	1915	2085	1295	1550
3 x 12 - 14 - 16	SKH312L/R	SUR/L314	16	2-9/16	10-3/4	1-3/8	(16) 16d	(10) 10d x 1-1/2	2210	2500	2500	1505	1565	1905	2190	2380	1295	1550
2-1/2 x 9-1/4 - 14	SKH2520L/R	---	16	2-9/16	8-5/8	1-7/8	(14) 10d	(10) 10d x 1-1/2	1625	1870	2030	1505	1565	1400	1610	1750	1295	1550
2-1/2 x 11-1/4 - 16	SKH2524L/R	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	1505	1565	1600	1840	2000	1295	1550
2-5/8 x 9-1/4 - 14	SKH2620L/R	SUR/L12.68/10	16	2-11/16	8-11/16	1-7/8	(14) 10d	(10) 10d x 1-1/2	1625	1870	2030	1505	1565	1400	1610	1750	1295	1550
2-5/8 x 11-1/4 - 16	SKH2624L/R	SUR/L12.68/14	16	2-11/16	10-11/16	1-7/8	(16) 10d	(10) 10d x 1-1/2	1855	2135	2320	1505	1565	1600	1840	2000	1295	1550

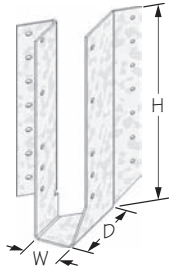
1) Uplift loads have been increased 33-1/3% or 60% for wind and seismic loads; no further increase shall be permitted.

2) 10d x 1-1/2 nails and N10-GC are 9 gauge (0.148" diameter) by 1-1/2" long.

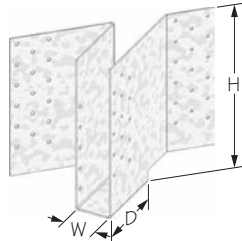
3) Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d and N16C-GC nails.

New products or updated product information are designated in red.

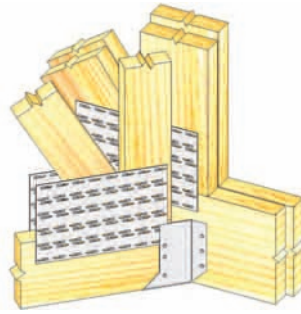
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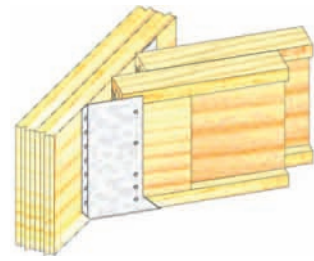
SKH210L



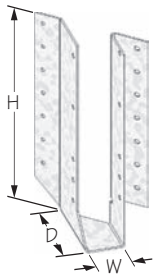
SKHH210L



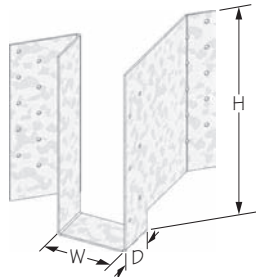
**Typical SKH26L
installation
Left skew**



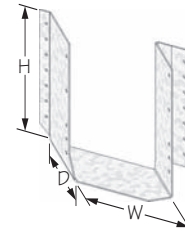
**Typical SKH2520R-2
staggered I-Joist installation
Right skew**



SKH210R



SKHH210L-2



SKH2520R-2

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See ANSI/TPI section for truss chord applications page 193

Beam / Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs.)									
				W	H	D	Header	Joist	DF-L / SP			S-P-F						
									Floor	Roof	Uplift ¹	Floor	Roof	Uplift ¹				
100%	115%	125%	133%	160%	100%	115%	125%	133%	160%									
(2) 2 x 6 - 8	*SKH26L/R-2	SUR/L26-2	16	3-1/16	4-1/2	1-3/8	(6) 16d	(6) 10d	830	950	1035	930	1115	715	820	895	800	960
(2) 2 x 8 - 10 - 12	*SKH28L/R-2	---	16	3-1/16	6-1/2	1-3/8	(10) 16d	(8) 10d	1380	1585	1725	1235	1360	1190	1370	1490	1065	1280
(2) 2 x 10 - 12 - 14	*SKH210L/R-2	SUR/L210-2	16	3-1/16	8-1/2	1-3/8	(14) 16d	(10) 10d	1930	2220	2415	1545	1565	1665	1915	2085	1335	1565
(2) 2 x 12 - 14 - 16	*SKH212L/R-2	---	16	3-1/16	10-1/2	1-3/8	(16) 16d	(10) 10d	2210	2540	2760	1545	1565	1905	2190	2380	1335	1565
(2) 1-1/2 x 9-1/4 - 14	*SKH1520L/R-2	---	16	3-1/16	8-1/2	1-7/8	(14) 10d	(10) 10d x 1-1/2	1625	1870	2030	1505	1565	1400	1610	1750	1295	1550
(2) 1-1/2 x 11-1/4 - 16	*SKH1524L/R-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	1505	1565	1600	1840	2000	1295	1550
3-1/2 x 8 - 14	*SKH410L/R	SUR/L410	14	3-9/16	8-1/2	2-1/2	(16) 16d	(10) 16d	2240	2540	2540	1565	1565	1935	2225	2420	1565	1565
3-1/2 x 12 - 18	*SKH414L/R	SUR/L414	14	3-9/16	12-1/2	2-1/2	(22) 16d	(10) 16d	3080	3540	3850	1565	1565	2660	3060	3330	1565	1565
3-1/2 x 16 - 18	*SKH418L/R	---	14	3-9/16	16-1/2	2-1/2	(28) 16d	(10) 16d	3920	4510	4900	1565	1565	3390	3895	4235	1565	1565
4 x 6 - 8	*SKH46L/R	SUR/L46	14	3-9/16	4-3/4	2-1/2	(10) 16d	(6) 16d	1400	1590	1590	1120	1345	1210	1390	1515	970	1160
4 x 10 - 12 - 14	*SKH410L/R	SUR/L410	14	3-9/16	8-1/2	2-1/2	(16) 16d	(10) 16d	2240	2540	2540	1565	1565	1935	2225	2420	1565	1565
4 x 14 - 16 - 18	*SKH414L/R	SUR/L414	14	3-9/16	12-1/2	2-1/2	(22) 16d	(10) 16d	3080	3540	3850	1565	1565	2660	3060	3330	1565	1565
4 x 18	*SKH418L/R	---	14	3-9/16	16-1/2	2-1/2	(28) 16d	(10) 16d	3920	4510	4900	1565	1565	3390	3895	4235	1565	1565
(2) 2 - 2-1/8 x 9-1/4 - 14	*SKH2020L/R-2	HSUR/L4.12/9, HSUR/L4.28/9	14	4-3/16	9-1/4	3-1/2	(14) 10d	(10) 10d	1650	1900	2065	1575	1890	1430	1640	1785	1360	1630
(2) 2 - 2-1/8 x 11-1/4 - 18	*SKH2024L/R-2	HSUR/L4.12/11, HSUR/L4.28/11	14	4-3/16	11-1/4	3-1/2	(16) 10d	(10) 10d	1890	2170	2360	1575	1890	1630	1875	2040	1360	1630
(2) 2-5/16 x 9-1/4 - 14	*SKH2320L/R-2	HSUR/L4.75/9	14	4-7/8	9-1/4	3-1/2	(14) 10d	(10) 10d	1650	1900	2065	1575	1890	1430	1640	1785	1360	1630
(2) 2-5/16 x 11-1/4 - 18	*SKH2324L/R-2	HSUR/L4.75/11	14	4-7/8	11-1/4	3-1/2	(16) 10d	(10) 10d	1890	2170	2360	1575	1890	1630	1875	2040	1360	1630
(2) 2-1/2 x 9-1/4 - 14	*SKH2520L/R-2	HSUR/L5.12/9	14	5-1/8	9-1/4	3-1/2	(14) 10d	(10) 10d	1650	1900	2065	1575	1890	1430	1640	1785	1360	1630
(2) 2-1/2 x 11-1/4 - 16	*SKH2524L/R-2	HSUR/L5.12/11	14	5-1/8	11-1/4	3-1/2	(16) 10d	(10) 10d	1890	2170	2360	1575	1890	1630	1875	2040	1360	1630
2 x 6 - 8	SKHH26L/R	---	14	1-5/8	5-1/8	3-1/4	(18) 16d	(12) 10d x 1-1/2	1510	1740	1890	1825	2190	1305	1505	1635	1585	1900
2 x 8 - 10 - 12	SKHH28L/R	---	14	1-5/8	7	3-1/4	(26) 16d	(16) 10d x 1-1/2	2185	2510	2730	2430	2920	1890	2170	2360	2110	2535
2 x 10 - 12 - 14	SKHH210L/R	---	14	1-5/8	9	4-1/4	(34) 16d	(20) 10d x 1-1/2	2855	3285	3570	3040	3650	2470	2840	3085	2640	3170
(2) 2 x 6 - 8	SKHH26L/R-2	HSUR/L26-2	14	3-1/16	5-1/4	2	(12) 16d	(4) 16d x 2-1/2	1680	1930	2100	745	895	1450	1670	1815	645	775
(2) 2 x 10 - 12 - 14	SKHH210L/R-2	HSUR/L210-2	14	3-1/16	8-1/2	2	(20) 16d	(6) 16d x 2-1/2	2800	3220	3500	1120	1345	2420	2785	3025	970	1160
(2) 2 x 14 - 16	SKHH214L/R-2	HSUR/L214-2	14	3-1/16	12-1/2	2	(26) 16d	(10) 16d x 2-1/2	3640	4185	4550	1865	2240	3145	3620	3935	1615	1935
4 x 6 - 8	SKHH46L/R	HSUR/L46	14	3-9/16	5-1/4	2-1/2	(12) 16d	(6) 16d	1680	1930	2100	1120	1345	1450	1670	1815	970	1160
4 x 10 - 12 - 14	SKHH410L/R	HSUR/L410	14	3-9/16	8-1/2	2-1/2	(20) 16d	(10) 16d	2800	3220	3500	1865	2240	2420	2785	3025	1615	1935
4 x 14 - 16 - 18	SKHH414L/R	HSUR/L414	14	3-9/16	12-1/2	2-1/2	(26) 16d	(10) 16d	3640	4185	4550	1865	2240	3145	3620	3935	1615	1935

1) Uplift loads have been increased 33-1/3% or 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.

Materials: 18 gauge

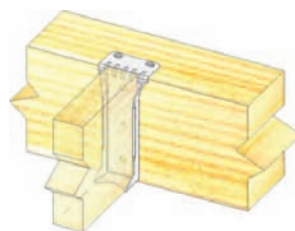
Finish: G90 galvanizing

Codes: NER 564, ICBO 2039, ICBO 2725, L.A. City RR 25104 & RR 23888, FL817

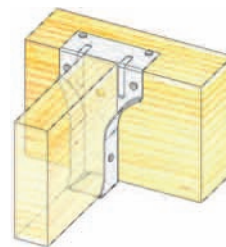
Installation:

- Use all specified fasteners. See Product Notes, page 16.
- 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.

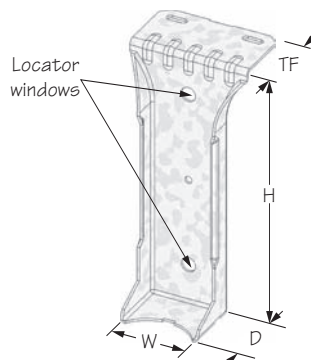
• KF & PHG – These hangers do not provide uplift resistance.



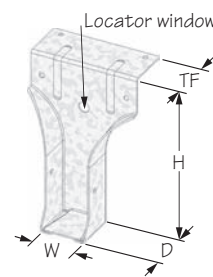
Typical PHG26 installation



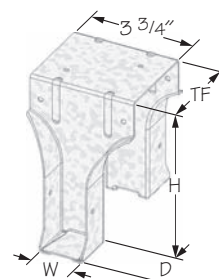
Typical FH installation



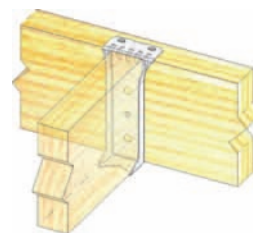
PHG26



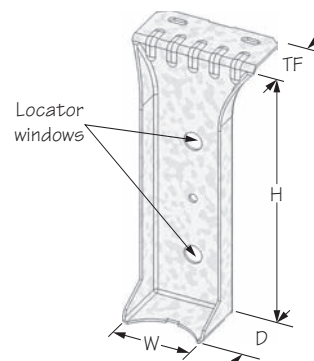
FH



FHD



Typical KF26 installation



KF26

Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{3,4}		Allowable Loads (Lbs.) ¹				
				W	H	D	TF ⁵	Header	Joist	DF-L / SP				
										Floor 100%	Roof 115%	125%	133%	Uplift ² 160%
2 x 4	KF24	---	18	1-9/16	3-7/16	7/8	1-1/16	(2) 10d	(1) 10d x 1-1/2	570	570	570	---	---
	PHG24	HF24N	18	1-9/16	3-1/2	1-3/16	1-1/16	(2) 8d	(2) grippers	580	580	580	---	---
	FHD24	---	18	1-9/16	3-1/2	1-1/2	specify	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
2 x 6	KF26	F26P	18	1-9/16	5-5/16	1-1/16	1-1/16	(2) 10d	(1) 10d x 1-1/2	570	570	570	---	---
	PHG26	HF26N	18	1-9/16	5-3/8	1	1-1/16	(2) 10d	(2) grippers	650	650	650	---	---
	FH26	---	18	1-9/16	5-3/8	1-1/2	1-7/16	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
	FHD26	---	18	1-9/16	5-3/8	1-1/2	specify	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
2 x 8	FH28	---	18	1-9/16	7-1/4	1-1/2	1-7/16	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
	FHD28	---	18	1-9/16	7-1/4	1-1/2	specify	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
2 x 10	FH210	---	18	1-9/16	9-1/4	1-1/2	1-7/16	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
	FHD210	---	18	1-9/16	9-1/4	1-1/2	specify	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
2 x 12	FH212	---	18	1-9/16	11-1/4	1-1/2	1-7/16	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
	FHD212	---	18	1-9/16	11-1/4	1-1/2	specify	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
2 x 14	FH214	---	18	1-9/16	13-1/4	1-1/2	1-7/16	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
	FHD214	---	18	1-9/16	13-1/4	1-1/2	specify	(4) 16d	(2) 10d x 1-1/2	1235	1235	1235	175	175
(2) 2 x 4	PHG24-2	---	18	3-1/8	3-1/2	1	1-1/8	(2) 10d	(4) grippers	650	650	650	---	---
	KF24-2	F24-2	18	3-1/8	3-1/2	1	1-3/16	(2) 10d	(1) 10d x 1-1/2	695	695	695	---	---
(2) 2 x 6	PHG26-2	---	18	3-1/8	5-3/8	1	1-1/8	(2) 10d	(4) grippers	650	650	650	---	---
	KF26-2	F26-2	18	3-1/8	5-3/8	1	1-3/16	(2) 10d	(1) 10d x 1-1/2	810	810	810	---	---
3 x 4	PHG34	HF34N	18	2-9/16	3-1/2	1	1-1/8	(2) 10d	(2) grippers	650	650	650	---	---
	KF34	---	18	2-9/16	3-7/16	1	1-1/8	(2) 10d	(1) 10d x 1-1/2	695	695	695	---	---
3 x 6	PHG36	HF36N	18	2-9/16	5-3/8	1	1-1/8	(2) 10d	(4) grippers	650	650	650	---	---
	KF36	---	18	2-9/16	5-3/8	1	1-1/8	(2) 10d	(1) 10d x 1-1/2	770	770	770	---	---
4 x 4	KF44	F44	18	3-9/16	3-3/8	1	1-1/8	(2) 10d	(1) 10d x 1-1/2	1000	1000	1000	---	---
4 x 6	KF46	F46	18	3-9/16	5-3/8	1	1-1/8	(2) 10d	(1) 10d x 1-1/2	1000	1000	1000	---	---

1) Loads listed are per side.

2) Uplift loads have been increased 33-1/3% or 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.

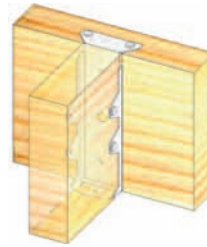
5) "Specify" denotes the required top flange width that must be specified at the time of ordering.

- JDS** – Medium capacity hanger with a double lap seat.
- JP** – Light capacity hanger with scalloped design.
- JPF** – Medium capacity purlin hanger with double shear nailing.

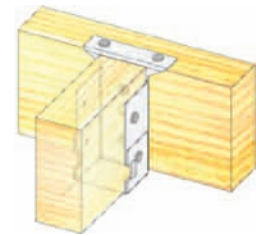
Materials: See chart
Finish: G90 galvanizing
Codes: NER 564, FL817
Patents: #5,217,317 – JPF series

Installation:

- Use all specified fasteners. See Product Notes, page 16.
- Use locator window to center hanger on purlin center line.
- Diamond holes on JPF allow optional header nailing.
- JPF - 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.**
- JPF - 16d sinkers (9 gauge x 3 1/4”) may be used where 10d commons are specified with no load reduction.



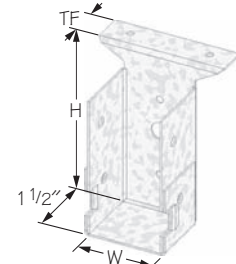
Typical JP26S installation



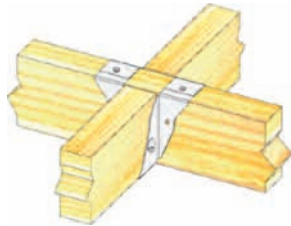
Typical JDS24S installation



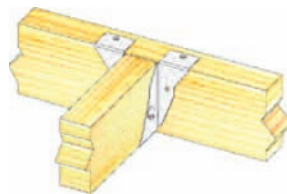
JP26S



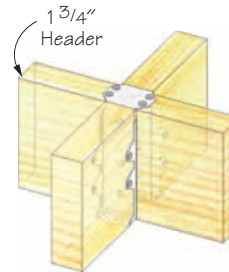
JDS24S



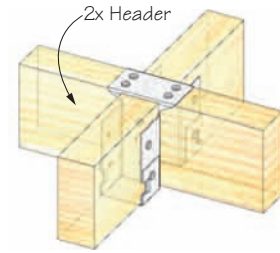
Typical JPF24 back-to-back installation



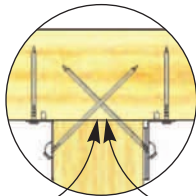
Typical JPF24 installation



Typical JP26D175 installation

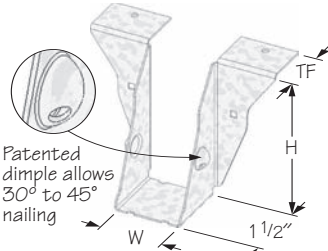


Typical JDS24 installation



Double shear nail design features fewer nails and faster installation

Uses standard length nails

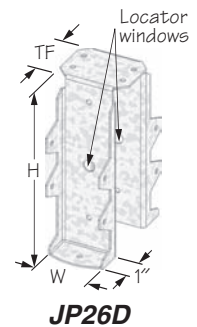


Patented dimple allows 30° to 45° nailing

JPF24

Purlin Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule ²		Allowable Loads (Lbs.)				
				W	H	TF	Header	Each Purlin	DF-L / SP				
									Floor	Roof		Uplift ¹	
2 x 4 single	JP24S	---	18	1-9/16	3-1/2	3/4	(3) 8d x 1-1/2	(2) 8d x 1-1/2	250	250	250	115	140
2 x 6 single	JP26S	---	18	1-9/16	5-1/2	3/4	(4) 8d x 1-1/2	(4) 8d x 1-1/2	375	375	375	235	280
2 x 4 saddle	JP24D	---	18	1-9/16	3-1/2	1-9/16	(6) 8d x 1-1/2	(2) 8d x 1-1/2	500	500	500	235	280
2 x 6 saddle	JP26D	---	18	1-9/16	5-1/2	1-9/16	(8) 8d x 1-1/2	(4) 8d x 1-1/2	750	750	750	470	565
2 x 6 saddle	JP26D175	---	18	1-9/16	5-13/32	1-3/4	(8) 8d x 1-1/2	(4) 8d x 1-1/2	750	750	750	470	565
2 x 4 saddle	JDS24	PFD24	20	1-9/16	3-1/2	1-9/16	(8) 8d x 1-1/2	(4) 8d x 1-1/2	965	965	965	470	565
2 x 4 single	JDS24S	PF24A	20	1-9/16	3-1/2	3/4	(4) 8d x 1-1/2	(4) 8d x 1-1/2	445	470	490	235	280
2 x 6 saddle	JDS26	PFD26	18	1-9/16	5-1/2	1-9/16	(8) 8d x 1-1/2	(6) 8d x 1-1/2	965	965	965	470	565
2 x 6 single	JDS26S	PF26A	18	1-9/16	5-1/2	3/4	(4) 8d x 1-1/2	(6) 8d x 1-1/2	445	470	490	235	280

1) Uplift loads have been increased 33-1/3% or 60% for wind and 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.



JP26D

Purlin Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule ³			Allowable Loads (Lbs.)									
				W	H	TF	Header ²			DF-L / SP			S-P-F						
							Top	Face	Joist	Floor	Roof		Uplift ¹	Floor	Roof		Uplift ¹		
2 x 4	JPF24	PF24	20	1-9/16	3-3/8	1-1/16	(2) 10d	--	(2) 10d	1070	1070	1070	260	315	800	800	800	215	235
							(2) 10d	(2) 10d	(2) 10d	1275	1275	1275	470	470	950	950	950	350	350
2 x 6	JPF26	PF26	20	1-9/16	5-3/8	1-1/16	(2) 10d	--	(2) 10d	1070	1070	1070	260	315	800	800	800	215	235
							(2) 10d	(2) 10d	(2) 10d	1275	1275	1275	470	470	950	950	950	350	350

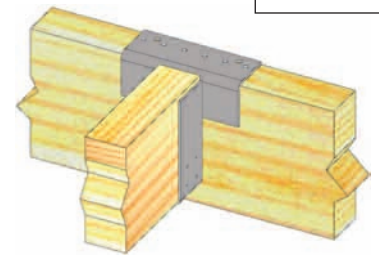
1) Uplift loads have been increased 33-1/3% or 60% for wind and seismic loads; no further increase shall be permitted.
 2) JPF cannot be used back to back on a single ply header when optional nailing is used.
 3) Minimum nail embedment shall be 1-1/2" for 10d nails.

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.

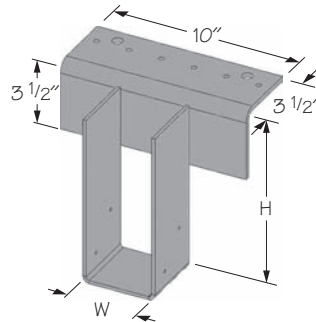
- Materials:** Top Flange – 1/4" steel; Stirrup – 7 gauge
Finish: USP primer
Options: See Specialty Options Chart on page 112.
Codes: SBCCI 2031C, FL859-R1

Installation:

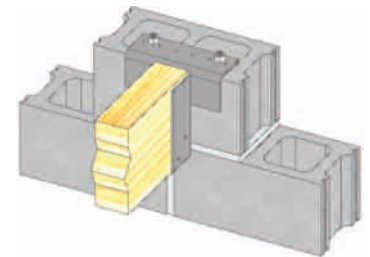
- Use all specified fasteners. See Product Notes, page 16.
- NA21 nails are included with hangers where specified.
- **NA21 nails are not recommended for use with LVL, PSL, or LSL headers.**
- Masonry design load values apply to both solid concrete tie beams and grout-filled CMU walls.
- **Alternate 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 ¹³		Allowable Loads (Lbs.)				
			W	H	Header	Joist	DF-L / SP				
							Floor	Roof			Uplift ⁴
100%	115%	125%	133%	160%							
2 x 4 - 6	HWUH26	---	1-5/8	5-3/8	(6) 10d	(4) 10d x 1-1/2	2265	2265	2265	775	930
					(2) 1/2 x 6 Emb. J-Bolt						
2 x 8	HWUH28	---	1-5/8	7-1/8	(6) 10d	(4) 10d x 1-1/2	2265	2265	2265	775	930
					(2) 1/2 x 6 Emb. J-Bolt						
2 x 10	HWUH210	---	1-5/8	9-1/8	(6) 10d	(4) 10d x 1-1/2	2265	2265	2265	775	930
					(2) 1/2 x 6 Emb. J-Bolt						
2 x 12	HWUH212	---	1-5/8	11	(6) 10d	(4) 10d x 1-1/2	2265	2265	2265	775	930
					(2) 1/2 x 6 Emb. J-Bolt						
2 x 14	HWUH214	---	1-5/8	13	(6) 10d	(4) 10d x 1-1/2	2265	2265	2265	775	930
					(2) 1/2 x 6 Emb. J-Bolt						
2 x 16	HWUH216	---	1-5/8	16	(6) 10d	(4) 10d x 1-1/2	2265	2265	2265	775	930
					(2) 1/2 x 6 Emb. J-Bolt						
3 x 6	HWUH36	---	2-5/8	5-3/8	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
3 x 8	HWUH38	---	2-5/8	7-1/8	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
3 x 10	HWUH310	---	2-5/8	9-1/8	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
3 x 12	HWUH312	---	2-5/8	11	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
3 x 14	HWUH314	---	2-5/8	13	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
3 x 16	HWUH316	---	2-5/8	16	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
(2) 2 x 6	HWUH26-2	---	3-1/8	5-3/8	(6) 10d	(4) 10d	3800	3800	3800	865	1035
(2) 2 x 8	HWUH28-2	---	3-1/8	7-1/8	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
(2) 2 x 10	HWUH210-2	---	3-1/8	9-1/8	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
(2) 2 x 12	HWUH212-2	---	3-1/8	11	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
(2) 2 x 14	HWUH214-2	---	3-1/8	13	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						
(2) 2 x 16	HWUH216-2	---	3-1/8	16	(6) 10d	(4) 10d	3800	3800	3800	865	1035
					(2) 1/2 x 6 Emb. J-Bolt						

continued on next page

Beam/ Joist Size	USP Stock No.	Ref. No.	Dimensions		Fastener Schedule ^{1,3}		Allowable Loads (Lbs.)				
			W	H	Header	Joist	DF-L / SP				
							Floor	Roof		Uplift ⁴	
								100%	115%	125%	133%
4 x 6	HWUH46	--	3-9/16	5-3/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
4 x 8	HWUH48	--	3-9/16	7-1/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
4 x 10	HWUH410	--	3-9/16	9-1/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
4 x 12	HWUH412	--	3-9/16	11	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
4 x 14	HWUH414	--	3-9/16	13	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
4 x 16	HWUH416	--	3-9/16	16	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
6 x 6	HWUH66	--	5-1/2	5-3/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
6 x 8	HWUH68	--	5-1/2	7-1/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
6 x 10	HWUH610	--	5-1/2	9-1/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
6 x 12	HWUH612	--	5-1/2	11	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
6 x 14	HWUH614	--	5-1/2	13	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
6 x 16	HWUH616	--	5-1/2	16	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
8 x 6	HWUH86	--	7-1/2	5-3/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
8 x 8	HWUH88	--	7-1/2	7-1/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
8 x 10	HWUH810	--	7-1/2	9-1/8	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
8 x 12	HWUH812	--	7-1/2	11	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
8 x 14	HWUH814	--	7-1/2	13	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	1035
8 x 16	HWUH816	--	7-1/2	16	(6) NA21 (2) 1/2 x 6 Emb. J-Bolt	(4) 10d	5165	5165	5165	865	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 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.

Specialty Options Chart – refer to Specialty Options pages 206 to 209 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.

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 113.

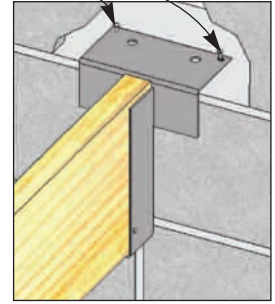
Codes: NER 505, FL816, L.A. City RR 25303

Installation:

- Use all specified fasteners. See Product Notes, page 16.
- 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.

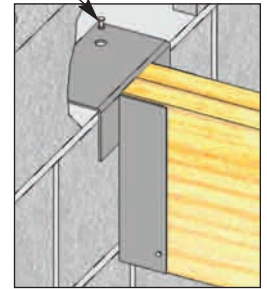
• **These products do not provide uplift resistance.**

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



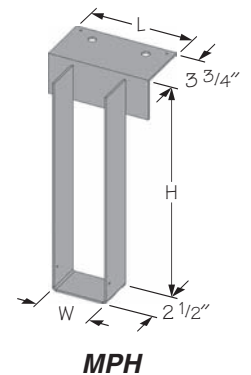
Typical MPH single ply installation

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



Typical MPH double ply installation

Beam/ Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule ^{1,3}		Allowable Loads (Lbs.) ²		
				W	H	L	Block	Joist	DF-L / SP		
									Floor	Roof	
100%	115%	125%									
2 x 10	MPH210	WM210	12	1-9/16	9-1/4	7	(2) 16d duplex	(2) 10d x 1-1/2	2600	2635	2660
2 x 12	MPH212	WM212	12	1-9/16	11-1/4	7	(2) 16d duplex	(2) 10d x 1-1/2	2600	2635	2660
2 x 14	MPH214	WM214	12	1-9/16	13-1/8	7	(2) 16d duplex	(2) 10d x 1-1/2	2600	2635	2660
2 x 16	MPH216	WM216	12	1-9/16	15-1/8	7	(2) 16d duplex	(2) 10d x 1-1/2	2600	2635	2660
(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



MPH

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.

continued on next page

Glulam sizes

Beam/ Joist Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule ²		Allowable Loads (Lbs.) ¹		
				W	H	L	Block	Joist	DF-L / SP		
									Floor	Roof	
100%	115%	125%									
3-1/8 x glulam	MPH325	-- --	12	3-1/4	specify	7	(2) 16d duplex	(2) 10d	4280	4280	4280
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 206 to 209 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.

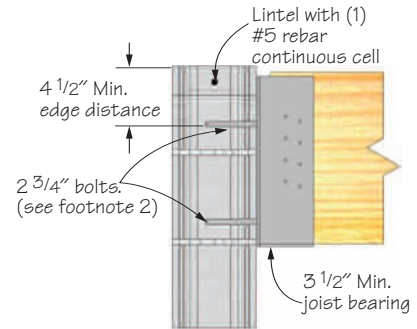
UNIVERSAL MASONRY HANGERS – UMH SERIES

A versatile solution for hanging beams from masonry walls. Face mount design allows hanger 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:

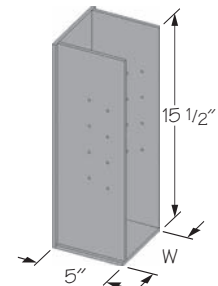
- Use all specified fasteners. See Product Notes, page 16.
- Fully grouted and reinforced concrete block or cast-in-place concrete with a minimum of (1) #5 rebar continuous to footing with standard hook at bolt locations.
- Minimum joist bearing length is 3 1/2".



Typical UMH installation

USP Stock No.	Ref. No.	Steel Gauge	W	Fastener Schedule		Allowable Loads (Lbs.)									
				Header ^{2,3}	Joist ⁴	DF-L / SP									
						Concrete - 2000 psi					Cast in Place Concrete - 3000 psi				
						Floor	Roof	Uplift ¹	Floor	Roof	Uplift ¹				
100%	115%	125%	133%	160%	100%	115%	125%	133%	160%						
UMH358	-- --	1/4	3-5/8	(2) 3/4	(16) 16d	5200	5200	5200	3990	4785	5870	5870	5870	3990	4785
UMH458	-- --		4-5/8												
UMH538	-- --		5-3/8												
UMH558	-- --		5-5/8												
UMH718	-- --		7-1/8												

- 1) Uplift loads have been increased 33-1/3% or 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.



UMH

NARROW FLANGE MASONRY HANGERS – NFM SERIES



NFM – Standard design.

NFM_U – High uplift design.

Materials: See chart

Finish: USP primer

Codes: Dade County, FL 06-0831.04,

All models except:

NFM3X8U, NFM35X8U,
NFM35X14U, NFM6X8U,
NFM6X10U, NFM6X12U,
& NFM6X14U

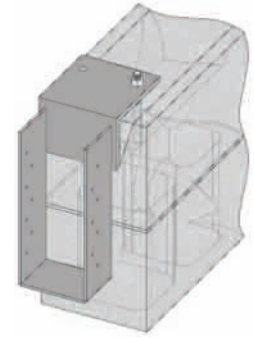
Installation:

- Use all specified fasteners. See Product Notes, page 16.
- Designed for both concrete walls and grout-filled reinforced CMU walls.

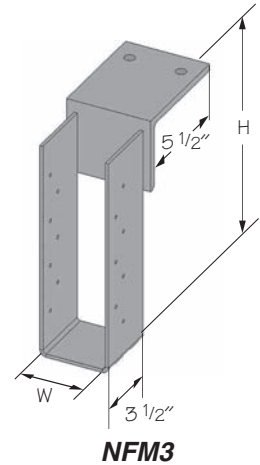
NFM Specialty Options Chart – refer to Specialty Options pages 206 to 209 for additional details.

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

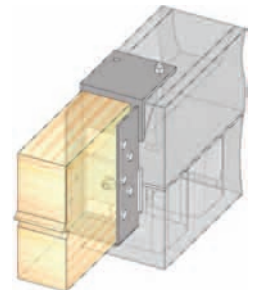
- 1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
- 2) Skewed hangers with skews greater than 15° require the joist end to be bevel cut.



Typical NFM45 installation



NFM3



Typical NFM45U installation

USP Stock No.	Ref. No.	Steel Gauge		Dimensions		Fastener Schedule		Allowable Loads (Lbs.) ^{1,2}				
		Top Flange	U-Strap	W	H	Header ^{3,4}	Joist ^{5,6}	DF-L / SP				
								Floor	Roof		Uplift	
100%	115%	125%	133%	160%								
NFM3X8	---	3/8	7	3-1/8	7-1/4	(1) 1/2 x J-Bolt	(10) 10d	5835	5835	5835	945	945
NFM3X10	---	3/8	7	3-1/8	9-1/4	(1) 1/2 x J-Bolt	(12) 10d	5835	5835	5835	1135	1135
NFM3X12	---	3/8	7	3-1/8	11-1/4	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM3	---	3/8	7	3-3/8	11-3/4	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM35X8	---	3/8	7	3-5/8	7-1/4	(1) 1/2 x J-Bolt	(10) 10d	5835	5835	5835	945	945
NFM35X10	---	3/8	7	3-5/8	9-1/4	(1) 1/2 x J-Bolt	(12) 10d	5835	5835	5835	1135	1135
NFM35X12	---	3/8	7	3-5/8	11-1/4	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM35X1178	---	3/8	7	3-5/8	11-7/8	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM35X16	---	3/8	7	3-5/8	16	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM35X18	---	3/8	7	3-5/8	18	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM45	---	3/8	7	4-3/4	11-3/4	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM6X1178	---	3/8	7	5-5/8	11-7/8	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM6X16	---	3/8	7	5-5/8	16	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM6X18	---	3/8	7	5-5/8	18	(1) 1/2 x J-Bolt	(14) 10d	5835	5835	5835	1325	1325
NFM3X8U	---	3/8	7	3-1/8	7-1/4	(1) 1/2 x J-Bolt	(3) 1/2	5955	5955	5955	2070	2070
NFM3X10U	MBHA3.12/9.25	3/8	7	3-1/8	9-1/4	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM3X12U	MBHA3.12/11.25	3/8	7	3-1/8	11-1/4	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM3U	---	3/8	7	3-3/8	11-3/4	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM35X8U	MBHA3.56/7.25	3/8	7	3-5/8	7-1/4	(1) 1/2 x J-Bolt	(3) 1/2	5955	5955	5955	2070	2070
NFM35X10U	MBHA3.56/9.25	3/8	7	3-5/8	9-1/4	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM35X12U	MBHA3.56/11.25	3/8	7	3-5/8	11-1/4	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM35X1178U	MBHA3.56/11.88	3/8	7	3-5/8	11-7/8	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM35X14U	MBHA3.56/14	3/8	7	3-5/8	14	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM35X16U	MBHA3.56/16	3/8	7	3-5/8	16	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM35X18U	MBHA3.56/18	3/8	7	3-5/8	18	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM45U	---	3/8	7	4-3/4	11-3/4	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM6X8U	MBHA5.50/7.25	3/8	7	5-5/8	7-1/4	(1) 1/2 x J-Bolt	(3) 1/2	5955	5955	5955	2070	2070
NFM6X10U	MBHA5.50/9.25	3/8	7	5-5/8	9-1/4	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM6X12U	MBHA5.50/11.25	3/8	7	5-5/8	11-1/4	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM6X1178U	MBHA5.50/11.88	3/8	7	5-5/8	11-7/8	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM6X14U	MBHA5.50/14	3/8	7	5-5/8	14	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM6X16U	MBHA5.50/16	3/8	7	5-5/8	16	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450
NFM6X18U	MBHA5.50/18	3/8	7	5-5/8	18	(1) 1/2 x J-Bolt	(5) 1/2	5955	5955	5955	3450	3450

- 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.



Hangers

EWP Hanger Selector Guide

EWP Hangers

Hanger Type	USP Series	Steel Gauge	Style					Supported Member				Supporting Member					100% Allowable Loads (Lbs.) Range			
			Face Mount	Top Mount	Sloped / Skewed	Formed	Welded	I-Joist	LVL, LSL, PSL	Truss	Glulam	Dimensional Wood	I-Joist	LVL, LSL, PSL	Truss	Glulam	Masonry	Header Material		
																		LVL	DF-L / SP	Masonry
Face Mount	THF	18	*					*	*	*	*	*	*				910 - 2,735	910 - 2,735		
		16	*					*	*	*	*	*	*				1,390 - 2,785	1,390 - 2,785		
		12	*					*	*	*	*	*	*				2,250 - 3,000	2,250 - 3,000		
	HUS	16	*					*	*	*	*	*	*				4,925	4,925		
	HD	14	*					*	*	*	*	*	*				1,680 - 4,200	1,680 - 4,200		
		14	*					*	*	*	*	*	*				5,320 - 7,335	5,320 - 7,335		
	THD	12	*					*	*	*	*	*	*				5,585 - 7,335	5,585 - 7,335		
THDH	12	*					*	*	*	*	*	*				8,170 - 11,580	8,170 - 11,580			
Top Mount	TFL	18	*	*				*	*	*	*	*	*				1,645	1,600		
	THO	18	*	*				*	*	*	*	*	*				1,345 - 2,715	995 - 2,715		
		16	*	*				*	*	*	*	*	*				1,030 - 2,330	1,030 - 2,700		
		12	*	*				*	*	*	*	*	*				2,330 - 3,535	2,535 - 4,685		
	TFI	16	*	*				*	*	*	*	*	*				2,560 - 3,245	2,560 - 3,245		
	BPH	12	*	*				*	*	*	*	*	*				3,065 - 3,680	2,625 - 3,510		
	PHI	12 - Top Flange, 12 - Stirrup	*	*				*	*	*	*	*	*	*				1,400	1,360 - 1,400	
		10 - Top Flange, 12 - Stirrup	*	*				*	*	*	*	*	*	*				2,005 - 2,150	2,005 - 2,150	
	PH	12	*	*				*	*	*	*	*	*				2,600	2,435		
	MPH	12	*	*				*	*	*	*	*	*	*					2,600 - 4,280	
	LBH	10	*	*				*	*	*	*	*	*				6,500	6,400		
	PHM	7 - Top Flange, 10 - Stirrup	*	*				*	*	*	*	*	*	*				3,495 - 3,745	2,865 - 3,390	
	PHX	3 - Top Flange, 10 - Stirrup	*	*				*	*	*	*	*	*	*				5,875 - 6,015	4,580 - 5,210	
PHXU	7	*	*				*	*	*	*	*	*	*				4,425 - 6,650	4,425 - 5,285		
HLBH	7	*	*				*	*	*	*	*	*	*				10,225 - 10,620	9,600		
Glulam	GHF	12	*		*			*	*	*	*	*	*	*			2,190 - 6,570	2,190 - 6,570		
		7	*		*			*	*	*	*	*	*	*			6,500 - 12,000	6,500 - 12,000		
	KLEG ²	7	*	*		*		*	*	*	*	*	*	*			10,460	10,460		
	KMEG ²	7	*	*		*		*	*	*	*	*	*	*			12,190	12,190		
	KEG ²	1/4" - Top Flange, 7 - Stirrup	*	*		*		*	*	*	*	*	*	*				16,060 - 19,295	16,060 - 19,295	
	KHHB	7	*	*		*		*	*	*	*	*	*	*			5,310 - 6,975	5,310 - 6,975		
	KGB	7	*	*		*		*	*	*	*	*	*	*			5,310 - 8,120	5,310 - 8,120		
	KHGB	7	*	*		*		*	*	*	*	*	*	*			6,975 - 8,120	6,975 - 8,120		
	KGLT	3 - Top Flange, 7 - Stirrup	*	*		*		*	*	*	*	*	*	*			7,545	7,545		
	KHGLT	3 - Top Flange, 7 - Stirrup	*	*		*		*	*	*	*	*	*	*			12,965 - 13,400	12,965 - 13,400		
	KGLS	3 - Top Flange, 7 - Stirrup	*	*		*		*	*	*	*	*	*	*			8,750 - 17,085	8,750 - 17,085		
	KHGLS	3 - Top Flange, 7 - Stirrup	*	*		*		*	*	*	*	*	*	*			17,405 - 17,985	17,405 - 17,985		
	KGLST	3 - Top Flange, 7 - Stirrup	*	*		*		*	*	*	*	*	*	*			10,905 - 21,745	10,905 - 21,745		
	KHGLST	3 - Top Flange, 7 - Stirrup	*	*		*		*	*	*	*	*	*	*			16,225 - 22,585	16,225 - 22,585		
	KHC ¹	7	*	*		*		*	*	*	*	*	*	*				10,505 - 32,290	10,505 - 32,290	
		3	*	*		*		*	*	*	*	*	*	*				22,040 - 39,670	22,040 - 39,670	
KHCST ³	7	*	*		*		*	*	*	*	*	*	*				7,870 - 11,810	7,870 - 11,810		
	3	*	*		*		*	*	*	*	*	*	*				15,745	15,745		
Slope / Skew	LSSH	18	*	*		*		*	*	*	*	*	*				1,140	1,140		
		16	*	*		*		*	*	*	*	*	*				1,825 - 2,485	1,825 - 2,485		

1) KHC allowable loads are based on (2) rotation bolts per beam @ 410 psi.

2) KEG, KLEG, KMEG hangers assume allowable loads with top flange.

3) KHCST allowable loads are based on 133% load duration.

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