

## EWP Hanger Selector Guide

EWP Hangers

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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	*					*	*		*	*	*				2,285 - 3 050	2,285 - 3 050		
	HUS	16	*					*	*	*	*	*	*				5,310	5,310		
		HD	14	*				*	*	*	*	*	*				1,690 - 4,230	1,690 - 4,230		
	HDQ	14	*					*	*	*	*	*	*				3,010 - 5,265	3,010 - 5,265		
		THD	14	*				*	*	*	*	*	*				5,360 - 7,045	5,360 - 7,045		
	THDH	12	*					*	*	*	*	*	*				5,660 - 8,415	5,660 - 8,415		
12		*					*	*	*	*	*	*				8,260 - 11,645	8,260 - 11,645			
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 - 4,770		
	TFI	16		*				*	*	*	*	*					2,560 - 3,245	2,560 - 3,245		
	BPH	12		*				*	*	*	*	*					3,120 - 3,495	2,705 - 3,495		
	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		*				*	*	*	*	*	*						2,585 - 4,280	
	LBH	10		*				*	*	*	*	*	*				6,500	6,400		
	PHM	7 - Top Flange, 10 - Stirrup		*				*	*	*	*	*	*					3,535 - 3,745	2,865 - 3,390	
	PHX	3 - Top Flange, 10 - Stirrup		*				*	*	*	*	*	*					6,015	4,580 - 5,210	
	PHXU	7		*				*	*	*	*	*	*					4,420 - 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	7	*		*			*	*	*	*	*	*				3,540 - 11,940	3,540 - 11,940		
	KMEG	7	*		*			*	*	*	*	*	*				5,285 - 12,635	5,285 - 12,635		
	KEG	1/4" - Top Flange, 7 - Stirrup		*		*		*	*	*	*	*	*					9,215 - 21,545	9,215 - 21,545	
	KHHB	7	*		*			*	*	*	*	*	*				4,885 - 5,275	4,885 - 5,275		
	KGB	7	*		*			*	*	*	*	*	*				6,460 - 6,915	6,460 - 6,915		
	KHGB	7	*		*			*	*	*	*	*	*				7,530 - 8,050	7,530 - 8,050		
	KGLT	3 - Top Flange, 7 - Stirrup		*		*		*	*	*	*	*	*				7,545	7,545		
	KHGLT	3 - Top Flange, 7 - Stirrup		*		*		*	*	*	*	*	*					10,150 - 13,400	10,150 - 13,400	
	KGLS	3 - Top Flange, 7 - Stirrup		*		*		*	*	*	*	*	*					8,710 - 20,425	8,710 - 20,425	
	KHGLS	3 - Top Flange, 7 - Stirrup		*		*		*	*	*	*	*	*					17,355 - 20,985	17,355 - 20,985	
	KGLST	3 - Top Flange, 7 - Stirrup		*		*		*	*	*	*	*	*					10,870 - 26,095	10,870 - 26,095	
	KHGLST	3 - Top Flange, 7 - Stirrup		*		*		*	*	*	*	*	*					16,175 - 26,585	16,175 - 26,585	
	KHC	7		*		*		*	*	*	*	*	*					10,505 - 44,100	10,505 - 44,100	
		3		*		*		*	*	*	*	*	*					22,040 - 54,180	22,040 - 54,180	
KHCST <sup>1</sup>		7		*		*		*	*	*	*	*	*				9,950 - 14,500	9,950 - 14,500		
		3		*		*		*	*	*	*	*	*				20,145	20,145		
Slope / Skew	LSSH	18	*		*		*	*	*	*	*	*					685 - 1,140	685 - 1,140		
		16	*		*		*	*	*	*	*	*					1,825 - 2,485	1,825 - 2,485		

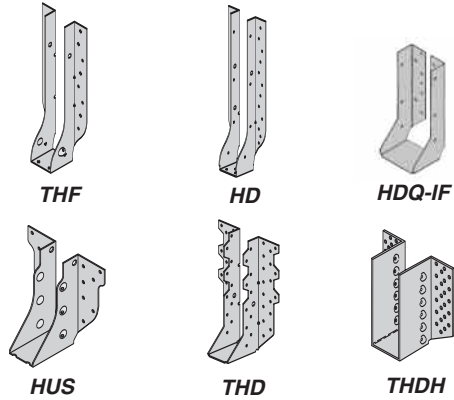
1) KHCST allowable loads are based on 160% load duration.

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

## EWP INSTALLATION GUIDE . . . PAGES 116-117

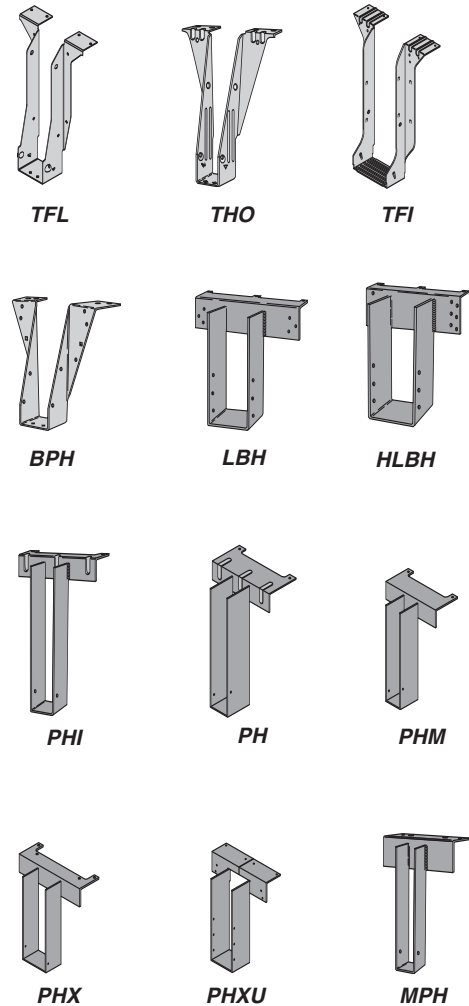
### FACE MOUNT HANGERS . . . . . PAGES 118-124

- **THF Series**  
Light capacity face mount hanger for I-Joists.
- **HD Series**  
Medium capacity hanger for LVL, LSL, and PSL beams.
- **HDQ-IF Series**  
Inverted flange medium capacity hanger for LVL, LSL, and PSL beams.
- **HUS Series**  
Medium capacity hanger for LVL, LSL, and PSL beams with deep seat.
- **THD Series**  
Medium-to-heavy capacity hanger for LVL, LSL, and PSL beams.
- **THDH Series**  
Heavy capacity hanger for LVL, LSL, and PSL beams.



### TOP MOUNT HANGERS . . . . . PAGES 125-139

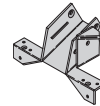
- **TFL Series**  
Light capacity top mount I-Joist hanger.
- **THO Series**  
Light-to-medium capacity top mount hanger.
- **TFI Series**  
Medium capacity I-Joist hanger.
- **BPH Series**  
Medium capacity top mount hanger for LVL, LSL, and PSL beams.
- **LBH Series**  
Medium-to-heavy capacity hanger for LVL, LSL, and PSL beams.
- **HLBH Series**  
Heavy capacity hanger for LVL, LSL, and PSL beams.
- **PHI Series**  
Medium capacity top flange hanger that supports single I-Joists on I-Joist header.
- **PH Series**  
Medium capacity welded top mount hanger for LVL, LSL, and PSL beams.
- **PHM Series**  
Medium capacity welded hanger for LVL, LSL, and PSL beams with 7 gauge top flanges.
- **PHX Series**  
Medium capacity welded hanger for LVL, LSL, and PSL beams with 3 gauge top flange.
- **PHXU Series**  
Medium capacity formed hanger for LVL, LSL, and PSL beams with uplift capacity.
- **MPH Series**  
Medium capacity masonry hanger for I-Joists, LVL, LSL, and PSL beams.



continued on next page

## ADJUSTABLE RAFTER-TO-PLATE CONNECTORS ..... PAGE 140

- **TMP Series**  
Adjustable for pitches from 1/12 to 6/12.
- **TMPH Series**  
Adjustable for pitches from 6/12 to 14/12.



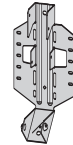
TMP



TMPH

## SLOPE/SKEW HANGERS ..... PAGE 141

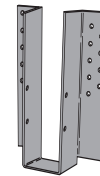
- **LSSH Series**  
Field adjustable slope and skew hanger.



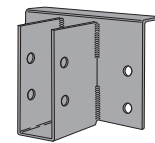
LSSH

## GLULAM HANGERS ..... PAGES 142-148

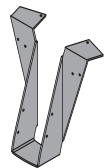
- **GHF Series**  
Face mount glulam hanger.
- **KEG, KLEG, & KMEG Series**  
Top flange glulam hanger with bolts.
- **KGB, KHGB, & KHHB Series**  
Top flange glulam hanger with nails.
- **KGLT & KHGLT Series**  
Heavy capacity top flange glulam hanger.
- **KGLS, KGLST, KHGLS, & KHGLST Series**  
Glulam saddle hanger.
- **KHC Series**  
Glulam hinge connector.
- **KHCST Series**  
Glulam seismic strap.



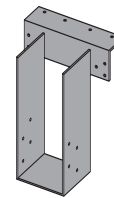
GHF



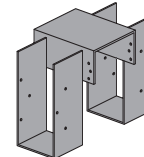
KLEG



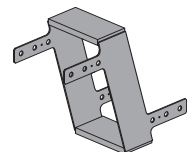
KHHB



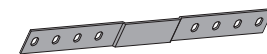
KGLT



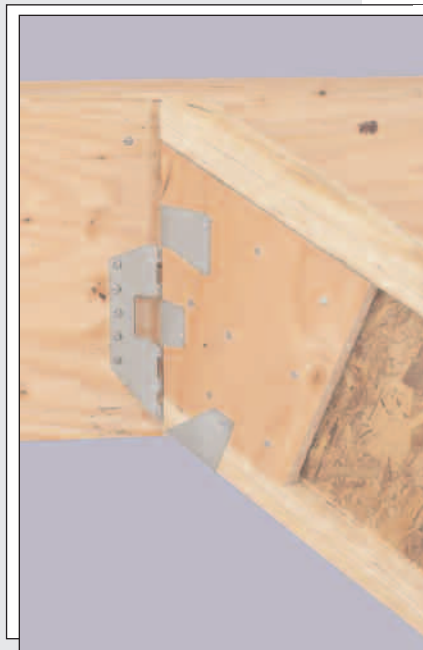
KGLS



KHC



KHCST



## Sloped I-Joists

Use sloped seat hangers and beveled web stiffeners whenever the slope exceeds the following: 1/2:12 for seat bearing lengths of 2 1/2" or less; 3/8:12 for bearing lengths between 2 1/2" and 3 1/2"; and 1/4:12 for bearing lengths in excess of 3 1/2".

## Multiple I-Joist Plys

Fasten together multiple plys of wood I-Joists, in accordance with the manufacturer's installation guidelines, such that the joists act as a single unit.

## I-Joist Rotation

It may be necessary to install straps, blocking, or sheathing to restrain torsional rotation of a supporting wood I-Joist when using top mount I-Joist hangers.

## Fasteners

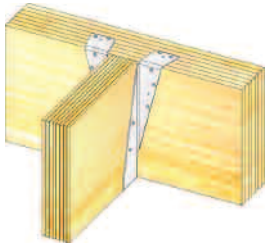
Install only the specified nails. The flanges of wood I-Joists may split if larger diameter nails or longer nails are installed. Do not install nails larger than 16d common wire nails (0.162" diameter) into the web stiffeners in the wood I-Joist.

## Backer Blocks

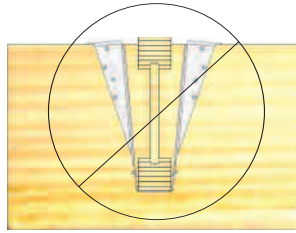
Pattern the nails used to install backer blocks or web stiffeners in wood I-Joists to avoid splitting the block. The nail pattern should be sufficiently spaced to avoid the same grain line, particularly with solid sawn backer blocks. Backer blocks must be installed on wood I-Joist acting as the header, or supporting member. Install in accordance with the I-Joist manufacturer's installation guidelines. The nails used to install hangers mounted to an I-Joist header must penetrate through the web and into the backer block on the opposite side.

## TOP FLANGE HANGERS

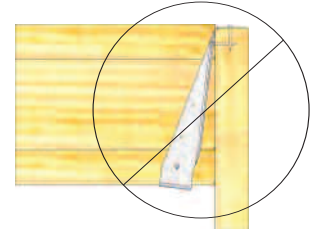
The thickness of the hanger metal and nail heads on top mount hangers must be evaluated for the effect on subsequent sheathing. Ensure that the top mount hanger is installed so the flanges of the hanger are not over-spread which tends to elevate the supported I-Joist causing uneven floor surfaces and squeaking. Similarly, ensure that the hanger is installed plumb such that the face flanges of the hanger are mounted firmly against the wide-face surface of the header.



**Flush framing**

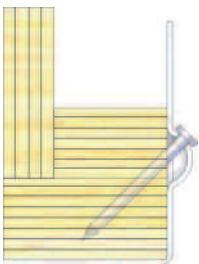


**Hanger over-spread**

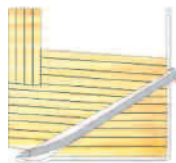


**Hanger not plumb**

## CORRECT SLANT NAIL INSTALLATION



Always secure wood I-Joist using 10d x 1 1/2" nail driven at a 45° angle and firmly seated



## Common Nailing Errors

### Wrong Angle

When a nail is driven into the bottom flange of the wood I-Joist parallel to the glue lines, separation of veneers can occur which substantially reduces the design loads of the connection.

### Nail Too Long

When using nails longer than USP's recommended nails, bottom flange splitting may occur. Also, this can raise the wood I-Joist off the seat, resulting in uneven surfaces and squeaky floors along with reduced allowable loads.

Hangers for joists **without web stiffeners** must support the I-Joist's top flange and provide lateral resistance with no more than 1/8" horizontal deflection.

Hangers for joists **with web stiffeners** must support a minimum of 60% of joist depth or potential joist rotation must be addressed.



(Top flange support requirements can be verified in this sections charts under the Web Stiffener Req'd. column.)

## NAILER INSTALLATIONS

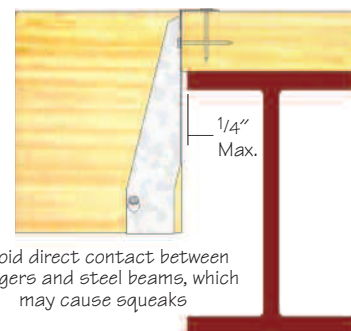
### Correct Hanger Attachment to Nailer

A nailer or sill plate is considered to be any wood member attached to a steel beam, concrete block wall, concrete stem wall, or other structure unsuitable for nailing, which is used as a nailing surface for top mount hangers to hold beams or joists.

### Nailer Sized Correctly

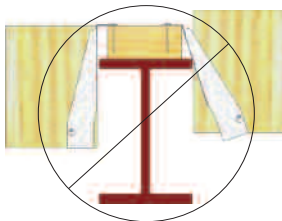
Top flange of hanger is fully supported and recommended nails have full penetration into nailer, resulting in a carried member hanging safely at the proper height.

The nailer must be sized to fit the support width as shown and be of sufficient thickness to satisfy recommended top flange nailing requirements. A design professional must specify nailer attachment to steel beams.



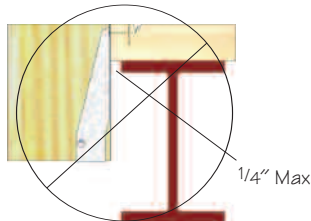
**Correct Attachment**

### Wrong Nailer Size Causes Component Failure



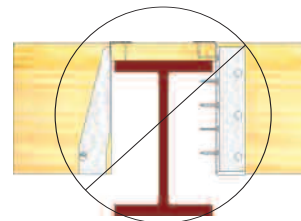
**Too Narrow**

Top flange not fully supported can cause nail breakout. Or, by fully supporting top flange, hanger is tilted back, causing lifting of carried member which results in uneven surfaces and squeaky floors.



**Too Wide**

Loading can cause cross grain breaking of nailer. The recommended nailer overhang is 1/4" maximum per side.



**Too Thin**

Top flange nailing cannot fully penetrate nailer, causing reduced allowable loads. Never use hangers which require multiple face nails since the allowable loads are dependent on all nail holes being used.

Designed to provide lateral support for the top chords of I-Joists in depths up to 16". Eliminates the need for web stiffeners in most applications (see *Web Stiffener Req'd.* column in EWP Face Mount Hanger Chart for specific applications).

- Materials:** See EWP Face Mount Hangers charts, pages 121-124.
- Finish:** G90 galvanizing
- Options:** See Specialty Options chart.
- Codes:** ESR-1781, FL815
- Patents:** #5,564,248 (all models except doubles)

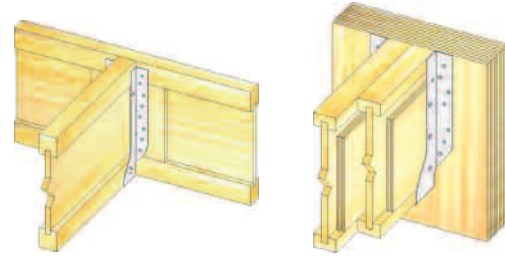
**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- Install 10d x 1 1/2" nails into joist through raised dimple at 45° angle.
- **THF Min** – Fill all round nail holes.
- **THF Max** – Fill all round and diamond holes.
- Uplift capacity for THF single ply hangers installed without joist nails = 85 lbs. Refer to THO, TFL, & THF Single Ply I-Joist Hangers Technical Bulletin – USP1040.

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

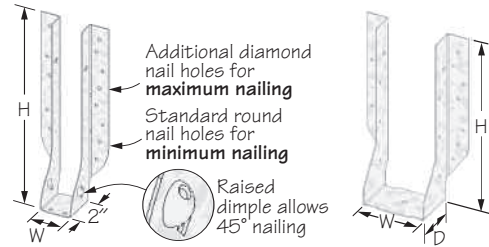
Option	Skewed <sup>1,3</sup>	Sloped Seat <sup>2,3</sup>	Sloped / Skewed <sup>1,2,3</sup>	Inverted Flange
Range	1' to 67-1/2' when width is 1-3/4" or less. 1' to 50" on all others.	1' to 45'	See Sloped Seat and Skewed	Not available in widths less than 2-1/4"
Allowable Loads	100% of table load. 75% of 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. Example: THF23925-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Example: THF23925-SL30D	See Sloped Seat and Skewed. Example: THF23925-SK45RSL30D	Add IF, to product number. Example: THF23925IF

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.  
 4) Modifications to THF hangers do not feature seat cleats.



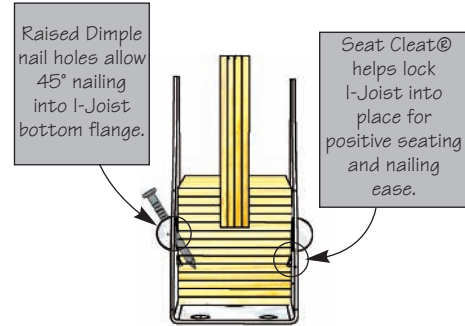
**Typical THF I-joist to joist installation**

**Typical THF double I-joist to LVL installation**



**THF single**

**THF double**



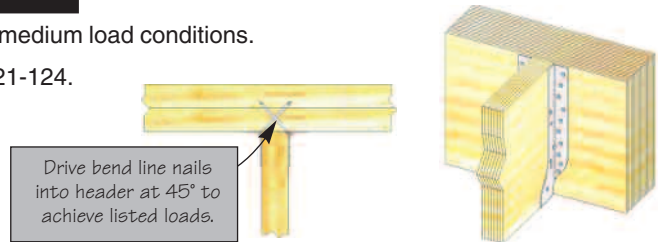
## FACE MOUNT HANGERS – HD SERIES

Designed to support LVL, LSL, and PSL beams and headers in medium load conditions.

- Materials:** See EWP Face Mount Hangers charts, pages 121-124.
- Finish:** G90 galvanizing
- Options:** See Specialty Options chart.
- Codes:** ESR-1781, FL815

**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- Drive bend line nails into header at 45° to achieve listed loads.



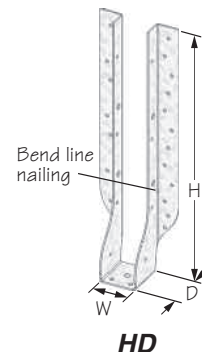
**Typical HD bend line nail installation**

**Typical HD installation**

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

Option	Skewed <sup>1,3</sup>	Sloped Seat <sup>2,3</sup>	Sloped / Skewed <sup>1,2,3</sup>	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. Example: HD410-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Example: HD410-SL30D	See Sloped Seat and Skewed. Example: HD410-SK45RSL30D	Add IF, to product number. Example: 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.



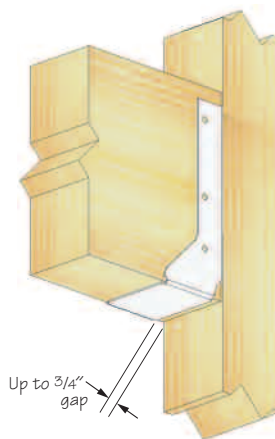
**HD**

HDQ hangers are heavy-duty face mount hangers that can be used to support LVL, LSL and PSL beams and headers.

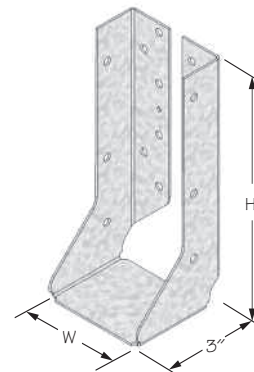
**Materials:** 14 gauge  
**Finish:** G90 galvanizing

**Installation:**

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



**Typical HDQ installation**



**HDQ**

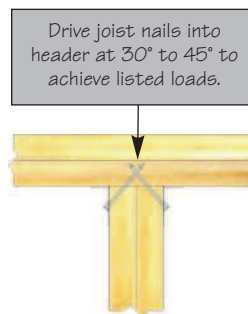
## FACE MOUNT HANGERS – HUS SERIES

Designed for medium load conditions. Extended 3" deep seat provides extra truss bearing.

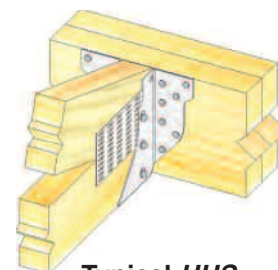
**Materials:** See EWP Face Mount Hangers charts, pages 121-124.  
**Finish:** G90 galvanizing  
**Options:** See Specialty Options chart.  
**Codes:** ESR-1881, FL9835,  
Dade County FL 06-0921.05

**Installation:**

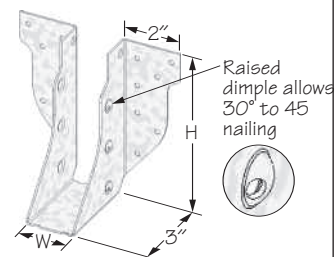
- Use all specified fasteners. See Product Notes, page 10.
- Joist nails must be driven at a 30° to 45° angle through the joist into the header to achieve listed loads.



**Typical HUS double shear installation**



**Typical HUS installation**



**HUS**

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

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

**THD** – Medium capacity hanger for LVL, LSL, and PSL beams.

**THDH** – Heavy capacity hanger for LVL, LSL, and PSL beams.

**Materials:** See EWP Face Mount Hangers charts, pages 121-124.

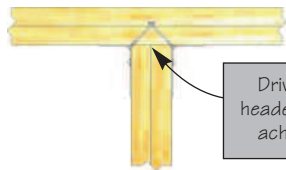
**Finish:** G90 galvanizing

**Options:** Rough/ Full sizes available for THD series. THD hangers with widths greater than 3" can have one flange inverted with no load reduction. Specify left (L) or (R) flange. See Specialty Options chart.

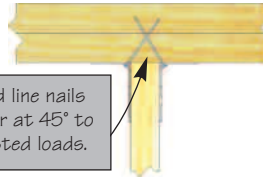
**Codes:** ESR-1781, ESR-1881, FL815, FL821, FL9835, Dade County FL 06-0921.05

**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- **THD** – Drive bend line nails into header at 45° to achieve listed loads.
- **THDH** – Drive joist nails into header at 30° to 45° to achieve listed loads.



Drive joist nails into header at 30° to 45° to achieve listed loads.

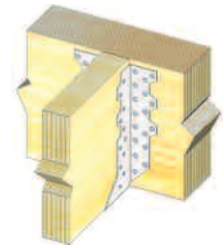


Drive bend line nails into header at 45° to achieve listed loads.

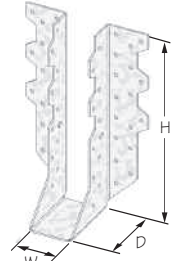
**Typical THDH double shear installation**

**Typical THD bend line nail installation**

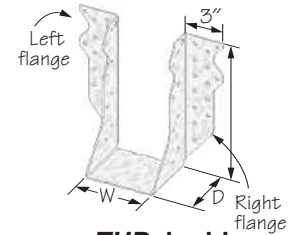
Some model designs may vary from illustration shown



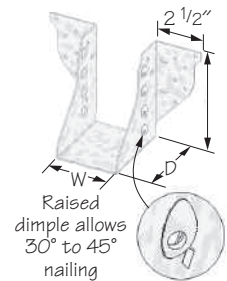
**Typical THD179 installation**



**THD single**



**THD double or larger**



**THDH26-2**

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

Option	USP Series	Skewed <sup>1,3,4</sup>	Sloped Seat <sup>2,3,4</sup>	Sloped / Skewed <sup>1,2,3,4</sup>	Inverted Flange
Range	THD	1° to 45°	1° to 45°	See Sloped Seat and Skewed	Not available in widths less than 3". Widths greater can have one flange inverted.
	THDH	1° to 45°	1° to 45°	See Sloped Seat and Skewed	N/A
Allowable Loads	THD	85% of table load	65% of table load	65% of table load	100% of table load. 65% of table load when nailing into the support members end grain.
	THDH	85% of table load. 50% of table uplift load.	52% of table load	52% of table load. 50% of table uplift load.	N/A
Ordering	THD	Add SK, angle required, and right (R) or left (L), to product number.	Add SL, slope required, and up (U) or down (D), to product number.	See Sloped Seat and Skewed Example: THDH410-SK45RSL30D	Add IIF, one flange, right (R) and left (L), Example: THD4101IFR
	THDH	Example: THDH410-SK45R	Example: THDH410-SL30D		N/A

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

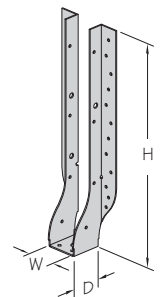
## I-Joist Chart

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions			Fastener Schedule <sup>4</sup>				Allowable Loads (Lbs.)								Code Ref.
					W	H	D	Header <sup>3</sup>		Joist <sup>1</sup>		DF-L / SP Header				S-P-F Header				
								Qty	Type	Qty	Type	100%	115%	125%	160%	Uplift <sup>2</sup>	100%	115%	125%	
1-1/2 x 9-1/2	THF15925 Min	IUS1.56/9.5	--	18	1-1/2	9-1/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	5, F10
	THF15925 Max	IUT29						12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	5, F10
1-1/2 x 11-1/4 - 11-7/8	THF15112 Min	IUS1.56/11.88	--	18	1-1/2	11-1/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	5, F10
	THF15112 Max	IUT211						16	10d	2	10d x 1-1/2	1825	2100	2155	280	1470	1500	1520	235	5, F10
1-1/2 x 14	THF15140 Min	---	--	18	1-1/2	13-1/2	2	12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	5, F10
	THF15140 Max	IUT214						20	10d	2	10d x 1-1/2	2100	2135	2155	280	1470	1500	1520	235	5, F10
1-3/4 x 9-1/4 - 9-1/2	THF17925 Min	IUS1.81/9.5	--	18	1-3/4	8-15/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	5, F10
	THF17925 Max	IUT9						12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	5, F10
1-3/4 x 11-7/8	THF17112 Min	IUS1.81/11.88	--	18	1-3/4	10-15/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	5, F10
	THF17112 Max	IUT11						16	10d	2	10d x 1-1/2	1825	2100	2280	280	1570	1710	1730	235	5, F10
1-3/4 x 14	THF17140 Min	IUS1.81/14	--	18	1-3/4	13-3/8	2	12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	5, F10
	THF17140 Max	IUT14						20	10d	2	10d x 1-1/2	2280	2445	2470	280	1680	1710	1730	235	5, F10
1-3/4 x 16	THF17157	MIU1.81/16	--	18	1-13/16	15-3/4	3-1/2	24	10d	2	10d x 1-1/2	2735	3145	3310	280	2350	2705	2780	235	5, F10
2 - 2-1/8 x 9-1/2	THF20925 Min	IUS2.06/9.5	--	18	2-1/8	8-7/8	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	5, F10
	THF20925 Max	IUT2.06/9						12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	5, F10
2 - 2-1/8 x 11-7/8	THF20112 Min	IUS2.06/11.88	--	18	2-1/8	11-3/16	2	8	10d	2	10d x 1-1/2	910	1050	1140	280	785	900	980	235	5, F10
	THF20112 Max	IUT2.06/11						16	10d	2	10d x 1-1/2	1825	2100	2280	280	1570	1805	1945	235	5, F10
2 - 2-1/8 x 14	THF20140 Min	IUS2.06/14	--	18	2-1/8	13-1/4	2	12	10d	2	10d x 1-1/2	1370	1575	1710	280	1175	1350	1470	235	5, F10
	THF20140 Max							20	10d	2	10d x 1-1/2	2280	2470	2470	280	1895	1925	1945	235	5, F10
2 - 2-1/8 x 16	THF20157	IUT2.06/16	--	18	2-1/8	15-3/4	3-3/8	24	10d	2	10d x 1-1/2	2735	3145	3310	280	2350	2705	2780	235	5
2-5/16 x 9-1/2	THF23925	IUT3510	--	18	2-5/16	9-3/16	2-1/2	12	10d	2	10d x 1-1/2	1370	1575	1710	175	1175	1350	1470	150	5, F10
2-5/16 x 11-7/8	THF23118	IUT3512	--	18	2-5/16	11-3/16	2-1/2	14	10d	2	10d x 1-1/2	1595	1835	1995	360	1370	1580	1715	310	5
2-5/16 x 14	THF23140	IUT3514	--	16	2-5/16	13-1/2	2-1/2	18	10d	2	10d x 1-1/2	2090	2400	2610	360	1800	2070	2250	310	5, F10
2-5/16 x 16	THF23160	MIU2.37/16	--	16	2-5/16	15-9/16	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3035	360	2200	2530	2550	310	5, F10
2-5/16 x 18 - 28	THF23180	MIU2.37/18	x	16	2-5/16	17-1/8	2-1/2	24	10d	8	10d x 1-1/2	2785	3200	3480	1295	2400	2760	3000	1085	5, F10
2-1/2 x 9-1/4 - 9-1/2	THF25925	IUT310 IUS2.56/9.5	--	18	2-1/2	9-1/8	2-1/2	12	10d	2	10d x 1-1/2	1370	1575	1710	175	1175	1350	1470	150	5, F10
2-1/2 x 11-1/4 - 11-7/8	THF25112	IUT312 IUS2.56/11	--	18	2-1/2	11-1/8	2-1/2	14	10d	2	10d x 1-1/2	1595	1835	1995	360	1370	1580	1715	310	5, F10

- 1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 3) Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
- 4) WS3 Wood Screws are 1/4" x 3" and are included with HDQ hangers.

**Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**

New products or updated product information are designated in red



continued on next page

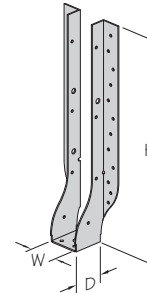
## I-Joist Chart

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions			Fastener Schedule <sup>1</sup>				Allowable Loads (Lbs.)								Code Ref.
					W	H	D	Header <sup>3</sup>		Joist <sup>1</sup>		DF-L / SP Header				S-P-F Header				
								Qty	Type	Qty	Type	100%	115%	125%	160%	Uplift <sup>2</sup>	100%	115%	125%	
2-1/2 x 13	THF25130	IUT313	--	16	2-1/2	12-1/4	2-1/2	18	10d	2	10d x 1-1/2	2090	2280	2280	360	1800	1915	1915	310	5, F10
2-1/2 x 14	THF25140	IUT314	--	16	2-1/2	13-7/16	2-1/2	18	10d	2	10d x 1-1/2	2090	2400	2610	360	1800	2070	2250	310	5, F10
2-1/2 x 16	THF25160	---	--	16	2-1/2	15-1/2	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3035	360	2200	2530	2550	310	5, F10
2-1/2 x 18 - 24	THF25160	---	x	16	2-1/2	15-1/2	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3035	360	2200	2530	2550	310	5, F10
3 x 9-1/4 - 14	THF15925-2	MIU29-2	x	16	3-1/8	9-3/16	2-1/2	12	10d	6	10d	1390	1600	1740	1115	1200	1380	1500	960	5, F10
3 x 11-1/4 - 14	THF15112-2	MIU211-2	x	16	3-1/8	10-13/16	2-1/2	14	10d	6	10d	1625	1870	2030	1115	1400	1610	1750	960	5, F10
3 x 14	THF15140-2	---	x	12	3-1/8	12-3/4	2-1/2	18	10d	6	10d	2285	2630	2860	1220	1980	2275	2420	1055	5, F10
3-1/2 x 9-1/4 - 9-1/2	THF35925	IUT410	--	18	3-1/2	8-5/8	2-1/2	12	10d	2	10d x 1-1/2	1370	1575	1710	245	1175	1350	1470	205	5, F10
3-1/2 x 9-1/4 - 14	THF17925-2	---	x	16	3-9/16	8-5/16	2-1/2	12	10d	6	10d	1390	1600	1740	1115	1200	1380	1500	960	5, F10
3-1/2 x 11-1/4	THF35112	IUT412	--	18	3-1/2	10-5/8	2-1/2	16	10d	2	10d x 1-1/2	1825	2100	2280	245	1570	1805	1960	205	5, F10
3-1/2 x 11-1/4 - 16	THF17112-2	---	x	16	3-5/8	10-9/16	2-1/2	14	10d	6	10d	1625	1870	2030	1115	1400	1610	1750	960	5, F10
3-1/2 x 14	THF35140	IUT414	--	16	3-1/2	12-15/16	2-1/2	20	10d	2	10d x 1-1/2	2320	2670	2900	245	2000	2300	2500	205	5, F10
3-1/2 x 14 - 20	THF17140-2	---	x	12	3-5/8	12-1/2	2-1/2	20	10d	6	10d	2540	2920	3175	1220	2200	2530	2750	1055	5, F10
3-1/2 x 16 - 22	THF17157-2	---	x	12	3-5/8	15-3/4	2-1/2	22	10d	6	10d	2795	3215	3495	1220	2420	2785	3025	1055	5, F10
3-1/2 x 16	THF35157	IUT416	--	16	3-1/2	15	2-1/2	22	10d	2	10d x 1-1/2	2550	2935	3190	245	2200	2530	2750	205	5, F10
3-1/2 x 18 - 26	THF35165	---	x	16	3-1/2	16-9/16	2-1/2	24	10d	8	10d x 1-1/2	2785	3200	3480	1295	2400	2760	3000	1085	5, F10
4 - 4-3/16 x 9-1/2	THF20925-2	HU4.12/9, HU4.28/9	--	16	4-3/16	8-11/16	2-1/2	12	10d	6	10d	1390	1600	1740	1115	1200	1380	1500	960	5, F10
4 - 4-3/16 x 11-7/8	THF20112-2	HU4.12/11, HU4.28/11	--	16	4-3/16	11	2-1/2	16	10d	6	10d	1855	2135	2320	1115	1600	1840	2000	960	5, F10
4 - 4-3/16 x 14	THF20140-2	---	--	16	4-3/16	13-5/8	2-1/2	20	10d	6	10d	2320	2670	2900	1115	2000	2300	2500	960	5, F10
4-5/8 x 9-1/4 - 14	THF23925-2	U3510-2	x	16	4-3/4	8-3/8	2-1/2	14	10d	6	10d	1625	1870	2030	1115	1400	1610	1750	960	5, F10
4-5/8 x 11-1/4 - 16	THF23118-2	U3512-2	x	16	4-3/4	10-11/16	2-1/2	16	10d	6	10d	1855	2135	2320	1115	1600	1840	2000	960	5, F10
4-5/8 x 14 - 22	THF23140-2	MIU4.75/14	x	12	4-3/4	13-5/16	2-1/2	20	10d	6	10d	2540	2920	3175	1220	2200	2530	2750	1055	5, F10
4-5/8 x 16 - 26	THF23160-2	MIU4.75/16	x	12	4-3/4	15-15/16	2-1/2	24	10d	6	10d	3050	3505	3810	1220	2640	3035	3300	1055	5, F10
5 x 9-1/4 - 11-7/8	THF25925-2	MIU5.12/9	x	16	5-1/8	8-3/16	2-1/2	12	10d	6	10d	1390	1600	1740	1115	1200	1380	1500	960	5, F10
5 x 11-1/4 - 16	THF25112-2	MIU5.12/11	x	16	5-1/8	10-7/16	2-1/2	16	10d	6	10d	1855	2135	2320	1115	1600	1840	2000	960	5, F10
5 x 14 - 20	THF25140-2	MIU5.12/14	x	12	5-1/8	13-1/8	2-1/2	20	10d	6	10d	2540	2920	3175	1220	2200	2530	2750	1055	5, F10
5 x 16 - 26	THF25160-2	MIU5.12/16	x	12	5-1/8	15-3/4	2-1/2	24	10d	6	10d	3050	3505	3810	1220	2640	3035	3300	1055	5, F10
7 x 9-1/4 - 14	HD7100	HU410-2	x	14	7-1/8	9	2-1/2	12	16d	6	10d	1690	1945	2115	1140	1450	1670	1815	990	5
7 x 11-1/4 - 14	HD7120	HU412-2	x	14	7-1/8	10-5/8	2-1/2	16	16d	6	10d	2255	2595	2820	1140	1935	2225	2420	990	5
7 x 14	HD7140	HU414-2	x	14	7-1/8	13-1/8	2-1/2	20	16d	8	10d	2820	3245	3525	1525	2420	2785	3025	1320	5

1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.  
 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.  
 3) Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.  
 4) WS3 Wood Screws are 1/4" x 3" and are included with HDQ hangers.

**Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**

New products or updated product information are designated in red.

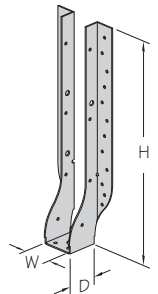


## Structural Composite Lumber Chart

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions			Fastener Schedule <sup>4</sup>				Allowable Loads (Lbs.)								Code Ref.
					W	H	D	Header <sup>3</sup>		Joist <sup>1</sup>		DF-L / SP Header				S-P-F Header				
								Qty	Type	Qty	Type	100%	115%	125%	160%	Uplift <sup>2</sup>	100%	115%	125%	
1-3/4 x 7-1/4	HD1770	HU7	x	14	1-13/16	7-1/8	2	14	16d	4	10d x 1-1/2	1975	2270	2335	730	1695	1945	1960	635	5, F10
1-3/4 x 9-1/2	HD17925	HU9	x	14	1-13/16	9-1/8	2	18	16d	6	10d x 1-1/2	2540	2775	2775	1065	2080	2170	2230	895	5, F10
	<b>HDO1791F</b>	HUCQ1.81/9-SDS	x	14	1-13/16	9	3	8	WS3	4	WS15	3010	3380	3380	1365	2840	2840	2840	990	130
	THD179	---	x	14	1-7/8	8-7/8	3	38	16d	20	10d x 1-1/2	5360	5800	5800	3095	4210	4510	4705	2600	5, F18, F10, D2
	HUS179	HUS1.81/10	x	16	1-13/16	9-1/8	3	30	16d	10	16d	5310	5510	5510	3205	4410	4630	4630	2690	6, F18, D2
1-3/4 x 11-1/4 - 11-7/8	HD17112	HU11	x	14	1-13/16	11-3/8	2	22	16d	6	10d x 1-1/2	2870	2975	3045	1065	2080	2170	2230	895	5, F10
	<b>HDO17112IF</b>	HUCQ1.81/11-SDS	x	14	1-13/16	11	3	10	WS3	6	WS15	3340	3340	3340	1580	2805	2805	2805	1325	130
	THD179	---	x	14	1-7/8	8-7/8	3	38	16d	20	10d x 1-1/2	5360	5800	5800	3095	4210	4510	4705	2600	5, F18, F10, D2
	HUS179	HUS1.81/10	x	16	1-13/16	9-1/8	3	30	16d	10	16d	5310	5510	5510	3205	4410	4630	4630	2690	6, F18, D2
1-3/4 x 14	HD1714	HU14	x	14	1-13/16	13-5/16	2	26	16d	8	10d x 1-1/2	3100	3235	3330	1065	2280	2400	2480	895	5, F10
	<b>HDO17141F</b>	---	x	14	1-13/16	13-3/8	3	12	WS3	6	WS15	3340	3340	3340	1580	2805	2805	2805	1325	130
	THD179	---	x	14	1-7/8	8-7/8	3	38	16d	20	10d x 1-1/2	5360	5800	5800	3095	4210	4510	4705	2600	5, F18, F10, D2
	HUS179	HUS1.81/10	x	16	1-13/16	9-1/8	3	30	16d	10	16d	5310	5510	5510	3205	4410	4630	4630	2690	6, F18, D2
1-3/4 x 16	HD1714	HU14	x	14	1-13/16	13-5/16	2	26	16d	8	10d x 1-1/2	3100	3235	3330	1065	2280	2400	2480	895	5, F10
	<b>HDO17141F</b>	---	x	14	1-13/16	13-3/8	3	12	WS3	6	WS15	3340	3340	3340	1580	2805	2805	2805	1325	130
	THD179	---	x	14	1-7/8	8-7/8	3	38	16d	20	10d x 1-1/2	5360	5800	5800	3095	4210	4510	4705	2600	5, F18, F10, D2
	HUS179	HUS1.81/10	x	16	1-13/16	9-1/8	3	30	16d	10	16d	5310	5510	5510	3205	4410	4630	4630	2690	6, F18, D2
2-11/16 x 9-1/4 - 14	HD27925	HU2.75/10	x	14	2-3/4	8-5/8	2	18	16d	6	10d x 1-1/2	2540	2775	2775	1065	2180	2330	2330	895	5, F10
	THDH27925	HGUS2.75/10	x	12	2-3/4	9-1/8	4	46	16d	12	16d	8260	8260	8260	3490	6935	6935	6935	2930	6, F18, D2
2-11/16 x 11-1/4 - 16	HD27112	HU2.75/12	x	14	2-3/4	10-7/8	2	22	16d	6	10d x 1-1/2	3100	3565	3610	1065	2660	2965	3025	895	5, F10
	THDH27112	HGUS2.75/12	x	12	2-3/4	10-7/8	4	56	16d	14	16d	9845	9845	9845	5225	7655	8135	8270	4390	6
2-11/16 x 14 - 16	HD2714	HU2.75/14	x	14	2-3/4	12-7/8	2	26	16d	8	10d x 1-1/2	3610	3610	3610	1065	3030	3030	3030	895	5
	THDH2714	HGUS2.75/14	x	12	2-3/4	12-1/4	4	66	16d	16	16d	9845	9845	9845	6810	8110	8270	8270	5835	6
3-1/2 x 9-1/4 - 14	HD410	HU410	x	14	3-9/16	8-13/16	2-1/2	18	16d	10	10d	2540	2920	3175	1905	2180	2505	2725	1650	5, F10
	<b>HDO410IF</b>	HUCQ410-SDS	x	14	3-9/16	9	3	12	WS3	6	WS3	4510	5190	5590	2975	4430	4695	4695	2500	130
	THD410	HHUS410	x	14	3-5/8	9-1/16	3	38	16d	20	10d	5360	6160	6700	3810	4600	5290	5750	3235	5, F18, F10, D2
	THDH410	HGUS410	x	12	3-9/16	9-1/8	4	46	16d	12	16d	8260	9010	9010	3970	7120	7570	7570	3335	6, F18, F15, D2
3-1/2 x 11-1/4 - 16	HD412	HU412	x	14	3-9/16	10-13/16	2-1/2	22	16d	10	10d	3100	3565	3880	1905	2660	3060	3330	1650	5, F10
	<b>HDO412IF</b>	HUCQ412-SDS	x	14	3-9/16	11	3	14	WS3	6	WS3	5265	5590	5590	2975	4695	4695	4695	2500	130
	THD412	---	x	14	3-5/8	11	3	48	16d	20	10d	6770	7045	7045	3810	5810	5920	5920	3235	5, F18, F10, D2
	THDH412	HGUS412	x	12	3-9/16	10-1/2	4	56	16d	14	16d	9845	9845	9845	5225	8270	8270	8270	4390	6

- 1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- 3) Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
- 4) WS3 Wood Screws are 1/4" x 3" and are included with HDQ hangers.

**Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**  
 New products or updated product information are designated in red.



continued on next page

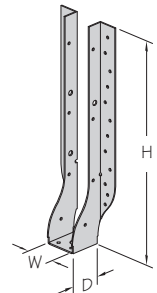
## Structural Composite Lumber Chart

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions			Fastener Schedule <sup>4</sup>				Allowable Loads (Lbs.)								Code Ref.	
					W	H	D	Header <sup>3</sup>		Joist <sup>1</sup>		DF-L / SP Header				S-P-F Header					
								Qty	Type	Qty	Type	100%	115%	125%	160%	100%	115%	125%	160%		Uplift <sup>2</sup>
3-1/2 x 14 - 20	HD414	HU414	x	14	3-9/16	12-13/16	2-1/2	24	16d	10	10d	3385	3890	4230	1905	2905	3340	3630	1650	5, F10	
	THD414	--	x	14	3-5/8	12-7/8	3	58	16d	20	10d	7045	7045	7045	3810	5920	5920	5920	3235	5	
	THDH414	HGUS414	x	12	3-9/16	13	4	66	16d	16	16d	9845	9845	9845	6810	8270	8270	8270	5835	6	
3-1/2 x 16 - 22	HD416	HU416	x	14	3-9/16	14-13/16	2-1/2	26	16d	12	10d	3665	4215	4570	2285	3145	3620	3840	1980	5, F10	
3-1/2 x 18 - 26	HD418	--	x	14	3-9/16	16-1/2	2-1/2	28	16d	8	10d	3950	4540	4570	1425	3390	3840	3840	1195	5, F10	
5-1/4 x 9-1/4 - 11-7/8	HD5210	--	x	14	5-3/8	7-7/8	2-1/2	18	16d	10	10d	2540	2920	3175	1905	2180	2505	2725	1650	5, F10	
	HDO5210IF	HUCO5.25/9-SDS	x	14	5-1/4	9	3	12	WS3	6	WS3	4510	5190	5590	2975	4430	4695	4695	2500	130	
	THD610	HHUS5.50/10	x	12	5-1/2	9	3	38	16d	20	10d	5660	6510	7080	3410	4900	5635	6130	2865	5, F18, F10, D2	
	THDH5210	HGUS5.25/10	x	12	5-3/8	9-1/8	4	46	16d	16	16d	8725	9855	9855	4565	7520	8275	8275	3835	6	
5-1/4 x 11-1/4 - 16	THDH610	HGUS5.50/10	x	12	5-1/2	9	4	46	16d	16	16d	8725	9855	9855	4565	7520	8275	8275	3835	6	
	HD5212	--	x	14	5-3/8	9-7/8	2-1/2	22	16d	10	10d	3100	3565	3880	1905	2660	3060	3330	1650	5, F10	
	HDO5212IF	HUCO5.25/11-SDS	x	14	5-1/4	11	3	14	WS3	6	WS3	5265	5590	5590	2975	4695	4695	4695	2500	130	
	THD612	--	x	12	5-1/2	11	3	48	16d	20	10d	7150	8225	8415	4065	6190	7070	7070	3520	5, F18, F10, D2	
5-1/4 x 14 - 20	THDH5212	HGUS5.25/12	x	12	5-3/8	11-1/8	4	56	16d	20	16d	9935	9935	9935	5180	8345	8345	8345	4355	6	
	THDH612	HGUS5.50/12	x	12	5-1/2	11	4	56	16d	20	16d	9935	9935	9935	5180	8345	8345	8345	4355	6	
	HD5214	--	x	14	5-3/8	11-7/8	2-1/2	24	16d	10	10d	3385	3890	4230	1905	2905	3340	3630	1650	5, F10	
5-1/4 x 16 - 22	THD614	--	x	12	5-1/2	12-7/8	3	58	16d	20	10d	8415	8415	8415	4065	7070	7070	7070	3520	5	
	THDH614	HGUS5.50/14	x	12	5-1/2	13	4	66	16d	22	16d	11645	11645	11645	5795	9780	9780	9780	4865	6	
	HD5216	--	x	14	5-3/8	13-7/8	2-1/2	30	16d	12	10d	4230	4570	4570	2285	3630	3840	3840	1980	5, F10	
6 x 11-7/8 - 16	HD62117	--	x	14	6-1/4	11-3/4	2-1/2	24	16d	6	10d	3385	3890	4230	1140	2905	3340	3630	990	5	
6-3/4 x 9 - 14-1/2	THDH6710	HGUS6.88/10	x	12	6-7/8	8-13/16	4	46	16d	12	16d	8260	8260	8260	3490	6935	6935	6935	2930	6, F18, D2	
6-3/4 x 11 - 18	THDH6712	HGUS6.88/12	x	12	6-7/8	10-13/16	4	56	16d	14	16d	9845	9845	9845	5225	8270	8270	8270	4390	6	
6-3/4 x 13 - 20-1/2	THDH6714	HGUS6.88/14	x	12	6-7/8	12-13/16	4	66	16d	16	16d	9845	9845	9845	6810	8270	8270	8270	5835	6	
6-15/16 x 11-7/8 - 16	HD71117	--	x	14	7-1/8	11-3/4	2-1/2	26	16d	6	10d	3665	4215	4570	1140	3145	3620	3840	990	5	
7 x 9-1/4 - 14	HD7100	HU410-2	x	14	7-1/8	9	2-1/2	12	16d	6	10d	1690	1945	2115	1140	1450	1670	1815	990	5	
	THD7210	HHUS7.25/10	x	12	7-1/4	9	3	38	16d	20	10d	5660	6510	7080	3410	4900	5635	6130	2865	5, F18, D2	
	THDH7210	HGUS7.25/10	x	12	7-1/4	9	4	46	16d	12	16d	8260	9010	9010	3970	7120	7570	7570	3335	6, F18, D2	
7 x 11-1/4 - 16	HD7120	HU412-2	x	14	7-1/8	10-5/8	2-1/2	16	16d	6	10d	2255	2595	2820	1140	1935	2225	2420	990	5	
	THDH7212	HGUS7.25/12	x	12	7-1/4	10-1/2	4	56	16d	14	16d	9845	9845	9845	5225	8270	8270	8270	4390	6	
7 x 14 - 20	HD7140	HU414-2	x	14	7-1/8	13-1/8	2-1/2	20	16d	8	10d	2820	3245	3525	1525	2420	2785	3025	1320	5	
	THDH7214	HGUS7.25/14	x	12	7-1/4	12-1/4	4	66	16d	16	16d	9845	9845	9845	6810	8270	8270	8270	5835	6	
7 x 16 - 22	HD7160	--	x	14	7-1/8	15-5/8	2-1/2	24	16d	8	10d	3385	3890	4230	1525	2905	3340	3630	1320	5	
7 x 18 - 26	HD7180	--	x	14	7-1/8	17-3/4	2-1/2	28	16d	8	10d	3950	4540	4570	1525	3390	3840	3840	1320	5	
7-5/8 x 11-7/8 - 16	HD77117	--	x	14	7-7/8	11-3/4	2-1/2	26	16d	6	10d	3665	4215	4570	1140	3145	3620	3840	990	5	
8 x 11-7/8 - 16	HD83117	--	x	14	8-5/16	11-3/4	2-1/2	26	16d	6	10d	3665	4215	4570	1140	3145	3620	3840	990	5	
9-1/4 x 11-7/8 - 16	HD95117	--	x	14	9-1/2	11-3/4	2-1/2	30	16d	6	10d	4230	4570	4570	1140	3630	3840	3840	990	5	

1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.  
 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.  
 3) Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.  
 4) WS3 Wood Screws are 1/4" x 3" and are included with HDQ hangers.

**Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**

New products or updated product information are designated in red.



**TFI & THO** – Engineered for I-Joist to header applications. Offers full lateral support of the I-Joist top chord, eliminating the need for web stiffeners in most applications. Raised dimple nailing guides help assure correct 45° nailing into the I-Joist bottom flange. The THO's feature the patented Seat Cleat® that allows for quick, positive seating. The Seat Cleat® will hold the I-Joist in place, eliminating spring back during nailing in the bottom flange.

**TFL** – Features 1 1/2" top flange depth that accommodates all header types as well as back-to-back installations. Also features USP's patented Seat Cleat® for quick, positive seating.

**BPH** – These hangers are used to support LVL, LSL, and PSL beams and headers in light-to-medium load conditions.

**Materials:** See EWP Top Mount Hangers charts, pages 129-139.

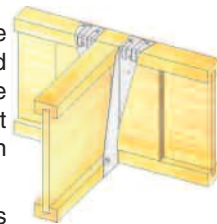
**Finish:** G90 galvanizing

**Codes:** ESR-1178, ESR-1831, ESR-1280, ESR-1781, FL815, FL822, FL11664, L.A. City RR 25749

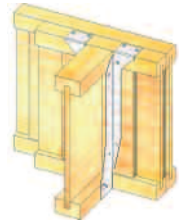
**Patents:** #5,564,248 – **THO & TFL**

**Installation:**

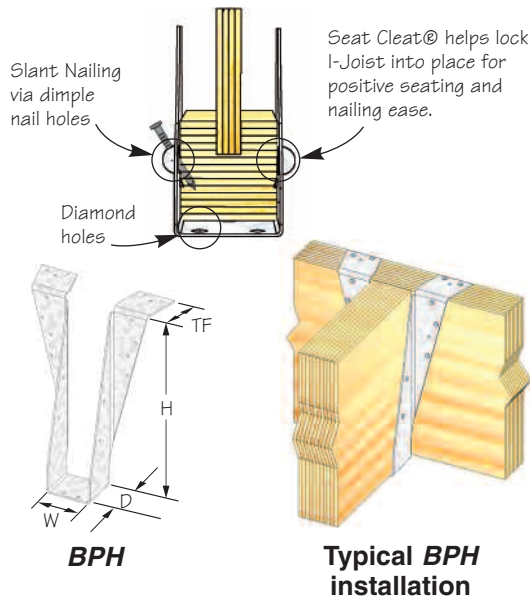
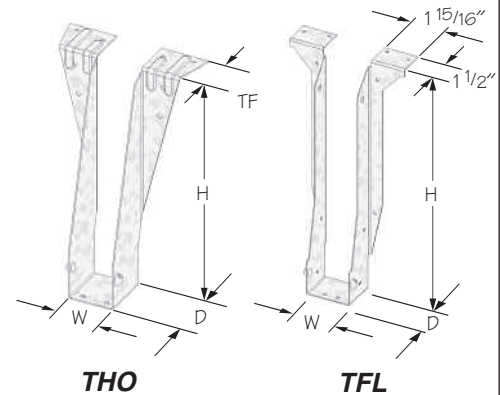
- Use all specified fasteners. See Product Notes, page 10.
- Refer to the top mount chart for applications requiring web stiffeners.
- Requirements for web stiffener from the I-Joist manufacturer should be followed, even if web stiffeners are not required in USP literature.
- For BPH welded installation, see page 205.
- Uplift capacity for THO and TFL single ply hangers installed without joist nails = 85 lbs. Refer to THO, TFL, & THF Single Ply I-Joist Hangers Technical Bulletin – USP1040.



**Typical THO installation**



**Typical TFL installation**



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

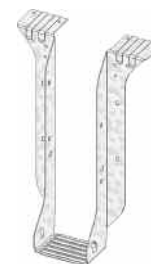
Option	Skewed <sup>1,3</sup>	Sloped Seat <sup>2,3</sup>	Sloped / Skewed <sup>1,2,3</sup>	Sloped Top Flange <sup>4</sup>
Range	1" to 50"	1" to 45"	See Sloped Seat and Skewed	0" to 45"
Allowable Loads	100% of table load	100% of table load	100% of table load	Reduce allowable table loads using straight-line interpolation
Ordering	Add SK, angle required, and right (R) or left (L), to product number. Ex. BPH3595-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Ex. BPH3595-SL30D	See Sloped Seat and Skewed. Ex. BPH3595-SK45RSL30D	Add SF angle required and right (R) or left (L), to product number. Ex. BPH3595-SF30L

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) Sloped top flanges with slopes greater than 15° may have additional header nails.

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

USP Series	Nailer Size	Fastener Schedule <sup>1,2</sup>				Allowable Loads (Lbs.) <sup>3</sup>			
		Header		Joist		DF-L / SP		S-P-F	
		Qty	Type	Qty	Type	100%	Uplift <sup>4</sup>	100%	Uplift <sup>4</sup>
TFL	2X	6	10d x 1-1/2	2	10d x 1-1/2	1270	360	1090	310
	3X	6	16d x 2-1/2	2	10d x 1-1/2	1600	360	1375	310
	(2) 2X	6	10d	2	10d x 1-1/2	1280	360	1100	310
	4X	6	16d	2	10d x 1-1/2	1760	360	1515	310
THO	2X	6	10d x 1-1/2	2	10d x 1-1/2	1360	360	1170	310
	3X	6	16d x 2-1/2	2	10d x 1-1/2	1470	360	1265	310
	(2) 2X	6	10d	2	10d x 1-1/2	1365	360	1175	310
	4X	6	16d	2	10d x 1-1/2	1535	360	1320	310
THO (Double)	2X	6	10d x 1-1/2	6	10d	1455	360	1250	310
	3X	6	16d x 2-1/2	6	10d	2335	500	2010	430
	(2) 2X	10	10d	6	10d	2370	500	2040	430
	4X	10	16d	6	10d	2665	500	2290	430
TFI	4X	6	16d	2	10d x 1-1/2	2560	360	2200	310
	4X	10	16d	2	10d x 1-1/2	3245	360	2790	310
BPH	2X	6	10d x 1-1/2	4	10d x 1-1/2	2080	230	1790	200
	3X	8	16d x 2-1/2	4	10d x 1-1/2	2360	535	2030	460
	(2) 2X	8	10d	4	10d x 1-1/2	2310	535	1985	460
	4X	8	16d	4	10d x 1-1/2	2245	535	1930	460

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) Listed loads shall not be increased.  
 4) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.



**TFI**

**LBH** – Medium-to-heavy duty hanger for LVL, LSL, and PSL beams.

**HLBH** – Heavy-duty hanger for LVL, LSL, and PSL beams.

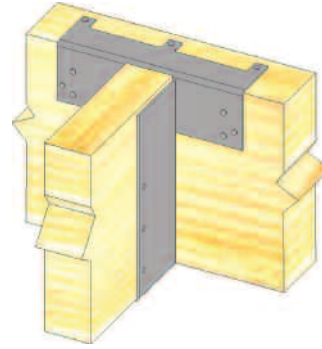
**Materials:** See EWP Top Mount Hangers charts, pages 129-139.

**Finish:** USP primer

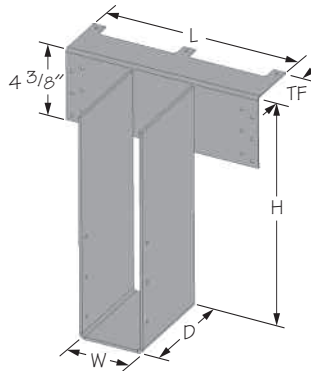
**Codes:** ESR-1831, FL822

**Installation:**

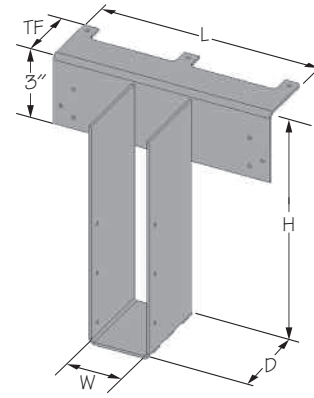
- Use all specified fasteners. See Product Notes, page 10.
- For welded installations, see page 205.
- 16d ring shank nails are supplied with HLBH and LBH hangers.



**Typical LBH installation**



**HLBH**



**LBH**

**HLBH & LBH Nailer Options** – chart represents maximum allowable loads for hangers used on wood nailers. Reference page 117.

USP Series	Nailer Size	Fastener Schedule <sup>1,2</sup>				Allowable Loads (Lbs.) <sup>3</sup>			
		Header		Joist		DF-L / SP		S-P-F	
		Qty	Type	Qty	Type	100%	Uplift	100%	Uplift
LBH	4X	9	NA16D-RS	6	10d x 1-1/2	6400	1315	5505	1130
	4X	9	NA16D-RS	6	16d	6400	1420	5505	1220
LBH 5-1/2" >	4X	9	NA16D-RS	6	16d	6400	1525	5505	1310
HLBH	4X	15	NA16D-RS	6	10d x 1-1/2	9600	1390	8255	1195
	4X	15	NA16D-RS	6	16d	9600	1605	8255	1380

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

2) NA16D-RS nails are 9 gauge (0.148" diameter) by 3-1/2" long.

3) Listed loads shall not be increased.

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

Option	Skewed <sup>1,3</sup>	Sloped Seat <sup>2,3</sup>	Sloped / Skewed <sup>1,2,3</sup>	Sloped Top Flange <sup>4</sup>	Top Flange Offset	Saddle <sup>5</sup>	Ridge
Range	1" to 50"	1" to 45"	See Sloped Seat and Skewed	0" to 45"	--	--	0" to 45"
Allowable Loads	LBH - 4725 lbs. Max. HLBH - 8070 lbs. Max. 50% of uplift load on skew greater than 15°.	LBH - 4110 lbs. Max. HLBH - 7000 lbs. Max.	LBH - 3900 lbs. Max. HLBH - 6650 lbs. Max. 50% of uplift load on skew greater than 15°.	Reduce allowable table loads using straight-line interpolation	60% of table load for LBH. 45% of table load for HLBH.	100% of table load per side. See footnote 5.	100% of table load
Ordering	Add SK, angle required, and right (R) or left (L), to product number. Ex. LBH3595-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Ex. LBH3595-SL30D	See Sloped Seat and Skewed. Ex. LBH3595-SK45RSL30D	Add SF, angle required, and right (R) or left (L), to product number. Ex. LBH3595-SF30L	Add OS, and right (R) or left (L), to product number. Ex. LBH3595-OSL	Add SA, and saddle width required to product number. Ex. LBH3595-SA=5-1/2"	Add DA, and angle required to product number. Ex. LBH3595-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) All sloped, skewed or combinations require bevel cut on joist in all applications and web stiffeners with I-joists.

4) Sloped top flanges with slopes greater than 15° may have additional header nails.

5) Minimum header thickness shall be double the top flange (TF) dimension for 100% table load.

**MPH** – Designed to work with standard 6” or larger grouted concrete block wall construction. Eliminates the need for masons to fabricate special seats to support I-Joists or composite wood beams.

**PH, PHM, PHX, & PHXU** – Used to connect LVL, LSL, and PSL beams to headers in medium load conditions using standard nails.

**PHI** – Specifically designed to support single-ply I-Joists on I-Joist headers. Joist nailing and top lateral support allows for installation without web stiffeners.

**Materials:** See EWP Top Mount Hangers charts, pages 129-139.

**Finish:** USP primer

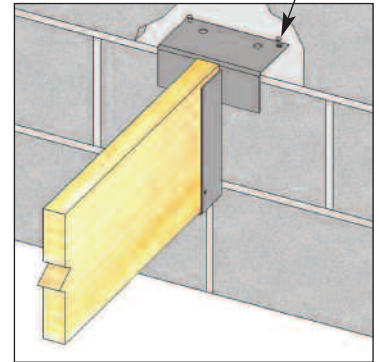
**Codes:** ESR-1781, ESR-1831, ESR-2104,  
FL816, FL820, FL822,  
L.A. City RR 25745

**Patents:** #6,463,711 B1 – **PHXU**

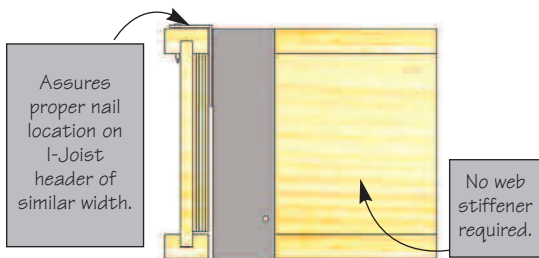
**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- For **MPH** series: 16d duplex nails are not provided. Place hanger on top of concrete block. Install (2) 16d duplex nails (8 gauge or 0.162” dia. x 3 1/2” double head) in the grouted cavity, and then continue laying the next course of block. Larger holes on top flange are provided to aid grout flow. A minimum of one course must be laid over hanger top flange and one course below hanger top flange. Courses adjacent to the top flange shall be subsequently grouted.
- For **PH, PHI, PHM, PHX, & PHXU** welded installations, see page 205.

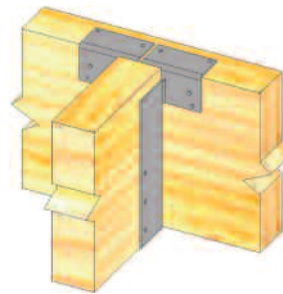
Install with (2)  
16d duplex nails  
in grouted cells



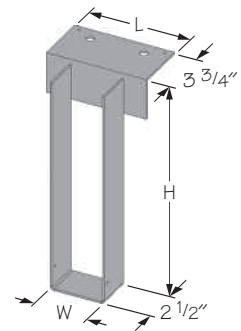
**Typical MPH installation**



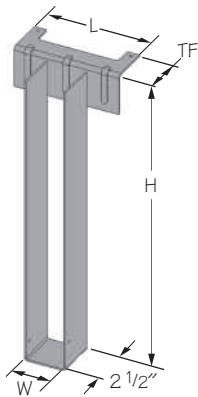
**Typical PHI installation**



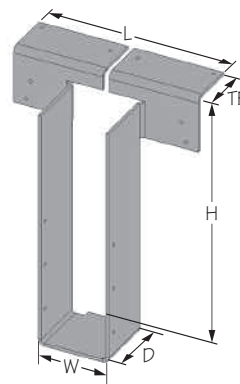
**Typical PHXU installation**



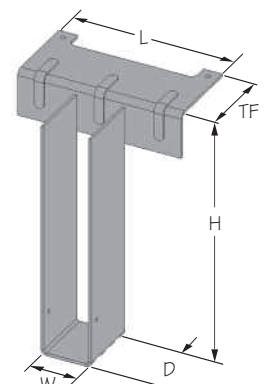
**MPH**



**PHI**



**PHXU**



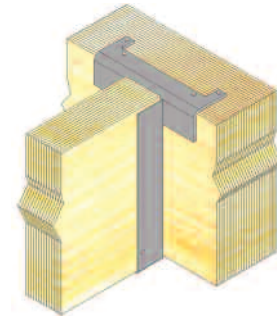
**PH**

continued on next page

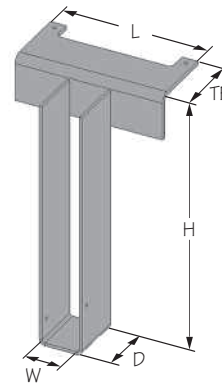
**PH, PHI, & PHM Nailer Options** – chart represents maximum allowable loads for hangers used on wood nailers. Reference page 117.

USP Series	Nailer Size	Fastener Schedule <sup>1,2</sup>				Allowable Loads (Lbs.) <sup>3</sup>			
		Header		Joist		DF-L / SP		S-P-F	
		Qty	Type	Qty	Type	100%	Uplift	100%	Uplift
PH	2X	2	10d x 1-1/2	2	10d x 1-1/2	1635	---	1405	---
	3X	2	16d x 2-1/2	2	10d x 1-1/2	1750	---	1505	---
	(2) 2X	2	10d	2	10d x 1-1/2	1635	---	1405	---
PHI	2X	2	10d x 1-1/2	2	10d x 1-1/2	1360	---	1170	---
	3X	2	10d x 1-1/2	2	10d x 1-1/2	1360	---	1170	---
	(2) 2X	2	10d x 1-1/2	2	10d x 1-1/2	1360	---	1170	---
PHM	2X	2	10d x 1-1/2	2	10d x 1-1/2	3010	---	2590	---
	3X	2	16d x 2-1/2	2	10d x 1-1/2	3570	---	3070	---
	(2) 2X	2	10d	2	10d x 1-1/2	3325	---	2860	---
	4X	2	16d	2	10d x 1-1/2	3255	---	2800	---
PHX	4X	4	16d	2	10d	5210	---	4480	---
PHXU 1-3/4" widths	4X	8	16d	6	10d x 1-1/2	4425	1035	3805	890
PHXU 2-3/4" > widths	4X	8	16d	6	10d x 1-1/2	5285	970	4545	835
	4X	8	16d	6	10d	5285	1290	4545	1110

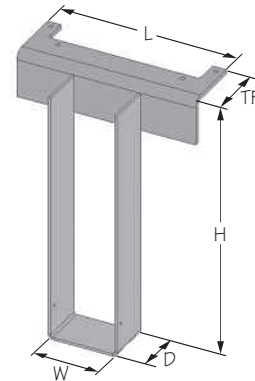
- 1) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 2) 16d x 2-1/2 nails are 8 gauge (0.162" diameter) by 2-1/2" long.
- 3) Listed loads shall not be increased.



**Typical PHX installation**



**PHM**



**PHX**

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

Option	USP Series	Skewed <sup>1,3,5</sup>	Sloped Seat <sup>2,3</sup>	Sloped / Skewed <sup>1,2,3</sup>	Sloped Top Flange <sup>4</sup>	Top Flange Offset <sup>6</sup>	Saddle <sup>5,6</sup>	Ridge
Range	PH	1" to 84"	1" to 45"	See Sloped Seat and Skewed	0° to 35°	---	---	0° to 45°
	PHI							
	PHM							
	PHX							
	PHXU	1" to 60"					N/A	
MPH						N/A	N/A	
Allowable Loads	PH	100% of table load	100% of table load	100% of table load up to Max. load of 2500 lbs.	Reduce allowable table loads using straight-line interpolation	Hanger Width % of table load: 3-1/2" or less 60% 3-9/16" to 5-1/2" 75% 5-9/16" to 7-1/2" 85%	100% of table load. See footnote 6.	100% of table load
	PHI			100% of table load.				
	PHM			100% of table load up to Max. load of 3000 lbs.				
	PHX			100% of table load up to Max. load of 3500 lbs.				
	PHXU			100% of table load up to Max. load of 3900 lbs.				
	MPH			100% of table load.				
Ordering	PH	Add SK, angle required, and right (R) or left (L), to product number. Ex. PH1795-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Ex. PH1795-SL30D	See Sloped Seat and Skewed. Ex. PH1795-SK45RSL30D	Add SF, angle required, and right (R) or left (L), to product number. Ex. PH1795-SF30L	Add OS, and right (R) or left (L), to product number. Ex. PH1795-OSL	Add SA, and saddle width required to product number. Ex. PH1795-SA=5-1/2"	Add DA, and angle required to product number. Ex. PH1795-DA30
	PHI							
	PHM							
	PHX							
	PHXU							
	MPH							

- 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) Sloped top flanges with slopes greater than 15° may have additional header nails.
- 5) Skewed, top flange offset, or saddle options will have a solid, welded top flange.
- 6) Minimum header thickness shall be double the top flange (TF) dimension for 100% table load.

# EWP TOP MOUNT HANGER CHARTS



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EWP Hangers

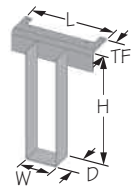
Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>						DF-L / SP Uplift <sup>6</sup>	Code Ref.		
					W	H	D	L	TF	Header		Joist		Header Material									
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF			Masonry	160%
1-1/2 x 9-1/4	THO15925	ITT29.25	--	18	1-9/16	9-1/4	2	--	1-1/2	6	10d	2	10d x 1-1/2	1005	1345	1290	1335	1005	845	--	230	5, F10	
	BPH15925	---	x	12	1-9/16	9-1/4	2-3/8	--	1-1/2	10	16d	4	10d x 1-1/2	--	3120	3065	3065	2705	1990	--	625	10, F16	
	PHI15925	---	--	12	1-9/16	9-1/4	2-1/2	6-1/2	3	2	16d	2	10d x 1-1/2	--	2600	2600	2440	2435	1655	--	--	10, F16	
	PHI15925	---	--	12	1-9/16	9-1/4	2-1/2	6-1/2	1-1/2	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1360	1360	--	--	10, F16	
	MPH210	WM29.25	--	12	1-9/16	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2585	--	5, F11	
1-1/2 x 9-1/2	THO15950	ITT29.5	--	18	1-1/2	9-1/2	2	--	1-1/2	6	10d	2	10d x 1-1/2	1090	1345	1290	1335	1090	915	--	270	5, F10	
	BPH1595	---	x	12	1-9/16	9-1/2	2-3/8	--	1-1/2	10	16d	4	10d x 1-1/2	--	3120	3065	3065	2705	1990	--	625	10, F16	
	PHI1595	---	--	12	1-9/16	9-1/2	2-1/2	6-1/2	1-1/2	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1360	1360	--	--	10, F16	
	MPH1595	WM29.5	--	12	1-9/16	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2585	--	5, F11	
1-1/2 x 11-1/4	THO15112	ITT211.25	--	16	1-9/16	11-1/4	2	--	1-7/16	6	10d	2	10d x 1-1/2	1030	1345	1290	1335	1030	865	--	230	5, F10	
	BPH15112	---	x	12	1-9/16	11-1/4	2-3/8	--	1-1/2	10	16d	4	10d x 1-1/2	--	3120	3065	3065	2705	1990	--	625	10, F16	
	MPH212	WM211.25	--	12	1-9/16	11-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2585	--	5, F11	
1-1/2 x 11-7/8	THO15118	ITT211.88	--	18	1-1/2	11-7/8	2	--	1-9/16	6	10d	2	10d x 1-1/2	1205	1345	1290	1335	1205	1015	--	270	5, F10	
	BPH15118	---	x	12	1-9/16	11-7/8	2-3/8	--	1-1/2	10	16d	4	10d x 1-1/2	--	3120	3065	3065	2705	1990	--	625	10, F16	
	MPH15118	WM211.88	--	12	1-9/16	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2585	--	5, F11	
1-1/2 x 14	THO15140	ITT214	--	16	1-9/16	14	2-3/8	--	1-1/2	10	10d	2	10d x 1-1/2	1030	1030	1030	1030	1030	865	--	230	5, F10	
	BPH1514	---	x	12	1-9/16	14	2-3/8	--	1-1/2	10	16d	4	10d x 1-1/2	--	3120	3065	3065	2705	1990	--	625	10, F16	
	MPH1514	---	--	12	1-9/16	14	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2585	--	5, F11	
1-5/8 x 9-1/2	THO16950	---	--	18	1-11/16	9-1/2	2	--	1-1/2	6	10d	2	10d x 1-1/2	1005	1345	1290	1335	1005	845	--	230	5, F10	
1-5/8 x 11-1/4	THO16112	---	--	16	1-11/16	11-1/4	2	--	1-1/2	6	10d	2	10d x 1-1/2	1030	1345	1290	1335	1030	865	--	230	5, F10	
1-5/8 x 11-7/8	THO16118	---	--	16	1-11/16	11-7/8	2	--	1-1/2	6	10d	2	10d x 1-1/2	1030	1345	1290	1335	1030	865	--	230	5, F10	
1-5/8 x 14	THO16140	---	--	16	1-11/16	14	3	--	1-3/4	10	10d	2	10d x 1-1/2	1030	1030	1030	1030	1030	865	--	230	5, F10	
1-3/4 x 7-1/4	PHXU17725	---	x	7	1-13/16	7-1/4	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	4420	4425	4425	4425	3070	--	1035	8, R9	
1-3/4 x 9-1/4	THO17925	ITT9.25	--	18	1-13/16	9-1/4	2	--	1-9/16	6	10d	2	10d x 1-1/2	995	1345	1290	1335	995	835	--	230	5	
	BPH17925	---	x	12	1-13/16	9-1/4	2-3/8	--	1-3/4	10	16d	4	10d x 1-1/2	--	3340	3395	3395	3030	2245	--	625	10, F16	
	PHI17925	---	--	12	1-13/16	9-1/4	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	--	--	--	10, F16	
	PHM17925	WP9.25	x	7/10	1-13/16	9-1/4	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3535	3330	3080	2865	2865	--	--	--	10, F16
	PHXU17925	---	x	7	1-13/16	9-1/4	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	4420	4425	4425	4425	3070	--	1035	8, F14, R9	
	MPH17925	---	--	12	1-13/16	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2975	--	5, F11	
1-3/4 x 9-1/2	THO17950	ITT9.5	--	18	1-3/4	9-1/2	2	--	1-1/2	6	10d	2	10d x 1-1/2	1260	1345	1290	1335	1260	1060	--	270	5	
	BPH1795	---	x	12	1-13/16	9-1/2	2-3/8	--	1-3/4	10	16d	4	10d x 1-1/2	--	3340	3395	3395	3030	2245	--	625	10, F16	
	PHI1795	---	--	12	1-13/16	9-1/2	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	--	--	--	10, F16	
	PHM1795	WP9	x	7/10	1-13/16	9-1/2	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3535	3330	3080	2865	2865	--	--	--	10, F16
	PHXU1795	---	x	7	1-13/16	9-1/2	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	4420	4425	4425	4425	3070	--	1035	8, F14, R9	
	MPH1795	WM9	--	12	1-13/16	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2975	--	5	
1-3/4 x 11-1/4	THO17112	ITT11.25	--	16	1-13/16	11-1/4	2	--	1-9/16	6	10d	2	10d x 1-1/2	1100	1345	1290	1335	1100	925	--	230	5	
	BPH17112	---	x	12	1-13/16	11-1/4	2-3/8	--	1-3/4	10	16d	4	10d x 1-1/2	--	3340	3395	3395	3030	2245	--	625	10, F16	
	PHI17112	---	--	12	1-13/16	11-1/4	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	--	--	--	10, F16	
	PHM17112	WP11.25	x	7/10	1-13/16	11-1/4	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3535	3330	3080	2865	2865	--	--	--	10, F16
	PHXU17112	WPU1.81/11.25	x	7	1-13/16	11-1/4	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	4420	4425	4425	4425	3070	--	1035	8, F14, R9	
	MPH17112	---	--	12	1-13/16	11-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2975	--	5, F11	
1-3/4 x 11-7/8	THO17118	ITT11.88	--	18	1-3/4	11-7/8	2	--	1-9/16	6	10d	2	10d x 1-1/2	1305	1345	1290	1335	1305	1095	--	270	5	
	BPH17118	---	x	12	1-13/16	11-7/8	2-3/8	--	1-3/4	10	16d	4	10d x 1-1/2	--	3340	3395	3395	3030	2245	--	625	10, F16	
	PHI17118	---	x	12	1-13/16	11-7/8	2-1/2	6-1/2	3	2	16d	2	10d x 1-1/2	--	2600	2600	2440	2435	1655	--	--	10, F16	
	PHI17118	---	--	12	1-13/16	11-7/8	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	--	--	--	10, F16	
	PHM17118	WP11	x	7/10	1-13/16	11-7/8	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3535	3330	3080	2865	2865	--	--	--	10, F16
	PHXU17118	---	x	7	1-13/16	11-7/8	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	4420	4425	4425	4425	3070	--	1035	8, F14, R9	
MPH17118	WM11	--	12	1-13/16	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2975	--	5, F11		
1-3/4 x 12	PHM1712	---	x	7/10	1-13/16	12	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3535	3330	3080	2865	2865	--	--	--	10, F16
1-3/4 x 14	THO17140	ITT14	--	16	1-13/16	14	3	--	1-3/4	10	10d	2	10d x 1-1/2	1760	1760	1760	1760	1760	1475	--	230	5	
	BPH1714	---	x	12	1-13/16	14	2-3/8	--	1-3/4	10	16d	4	10d x 1-1/2	--	3340	3395	3395	3030	2245	--	625	10, F16	
	PHI1714	---	x	12	1-13/16	14	2-1/2	6-1/2	3	2	16d	2	10d x 1-1/2	--	2600	2600	2440	2435	1655	--	--	10, F16	
	PHI1714	---	--	12	1-13/16	14	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	--	--	--	10, F16	
	PHM1714	WP14	x	7/10	1-13/16	14	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3535	3330							

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>						DF-L / SP Uplift <sup>6</sup>	Code Ref.		
					W	H	D	L	TF	Header		Joist		Header Material									
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF			Masonry	160%
1-3/4 x 16	THO17160	ITT16	--	16	1-13/16	16	3	--	1-5/8	10	10d	2	10d x 1-1/2	1760	1760	1760	1760	1760	1475	--	230	5	
	BPH1716	B1.81/16	x	12	1-13/16	16	2-3/8	--	1-3/4	10	16d	4	10d x 1-1/2	--	3340	3395	3395	3030	2245	--	625	10, F16	
	PHI1716	---	x	12	1-13/16	16	2-1/2	6-1/2	3	2	16d	2	10d x 1-1/2	--	2600	2600	2440	2435	1655	--	--	10, F16	
	PHI1716	---	--	12	1-13/16	16	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	1400	--	--	10, F16	
	PHM1716	WP16	x	7/10	1-13/16	16	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3535	3330	3080	2865	2865	--	--	10, F16	
	MPH1716	WM16	--	12	1-13/16	16	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	2975	--	5, F11	
2 - 2-1/8 x 9-1/2	TFL2095	ITT2.06/9.5, ITT2.1/9.5	--	18	2-1/8	9-1/2	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1	
	THO20950	---	--	18	2-1/8	9-1/2	2-3/8	--	1-15/16	6	10d	2	10d x 1-1/2	1030	1345	1290	1335	1030	865	--	230	5	
	PHI2095	---	--	12	2-1/8	9-1/2	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	1400	--	--	10	
2 - 2-1/8 x 11-7/8	TFL20118	ITT2.06/11.88, ITT2.1/11.88	--	18	2-1/8	11-7/8	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1	
	THO20118	---	--	18	2-1/8	11-7/8	2-3/8	--	1-15/16	6	10d	2	10d x 1-1/2	1030	1345	1290	1335	1030	865	--	230	5	
	PHI20118	---	--	12	2-1/8	11-7/8	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	1400	--	--	10	
2 - 2-1/8 x 14	TFL2014	ITT2.06/14, ITT2.1/14	--	18	2-1/8	14	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1	
	THO20140	---	--	18	2-1/8	14	2-3/8	--	1-15/16	10	10d	2	10d x 1-1/2	1760	1760	1760	1760	1760	1475	--	230	5	
	PHI2014	---	--	12	2-1/8	14	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	1400	--	--	10	
2 - 2-1/8 x 16	TFL2016	ITT2.06/16, ITT2.1/16	--	18	2-1/8	16	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1	
	THO20160	---	--	18	2-1/8	16	2-3/8	--	1-15/16	10	10d	2	10d x 1-1/2	1760	1760	1760	1760	1760	1475	--	230	5	
	PHI2016	---	--	12	2-1/8	16	2-1/2	6-1/2	1-3/4	2	10d x 1-1/2	2	10d x 1-1/2	1400	1400	1400	1400	1400	1400	--	--	10	
2-1/4 - 2-5/16 x 9-1/4	THO23925	ITT359.25	--	18	2-3/8	9-1/4	2-3/8	--	1-7/8	10	10d	2	10d x 1-1/2	1625	1625	1625	1625	1625	1365	--	265	5, F10	
	MPH23925	---	--	12	2-3/8	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	3855	--	5, F11	
	TFL2395	ITT359.5	--	18	2-5/16	9-1/2	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1	
2-1/4 - 2-5/16 x 9-1/2	PHI2395	---	--	10/12	2-3/8	9-1/2	2-1/2	6-1/2	2-5/16	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	2005	--	--	10, F16
	MPH2395	---	--	12	2-3/8	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	3855	--	5, F11	
	TFL23118	ITT3511.88	--	18	2-5/16	11-7/8	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1	
2-1/4 - 2-5/16 x 11-7/8	THO23118	---	--	16	2-3/8	11-7/8	2-3/8	--	1-7/8	10	10d	2	10d x 1-1/2	1835	1835	1835	1835	1835	1540	--	265	5, F10	
	PHI23118	---	--	10/12	2-3/8	11-7/8	2-1/2	6-1/2	2-5/16	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16	
	MPH23118	WM3511.88	--	12	2-3/8	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	3855	--	5, F11	
	TFL2314	ITT3514	--	18	2-5/16	14	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1	
	THO23140	---	--	18	2-3/8	14	2-3/8	--	2	12	10d	2	10d x 1-1/2	2715	2715	2715	2715	2280	--	265	5, F10		
	TFI3514	MIT3514	--	16	2-3/8	14	2-1/2	--	2-1/16	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12	
2-1/4 - 2-5/16 x 14	PHI2314	---	--	10/12	2-3/8	14	2-1/2	6-1/2	2-5/16	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16	
	PHM2314	WP3514	x	7/10	2-3/8	14	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3570	3570	3080	2865	2865	--	--	10, F16	
	MPH2314	WM3514	--	12	2-3/8	14	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	3855	--	5, F11	
	TFL2316	---	--	18	2-5/16	16	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1	
	TFI3516	MIT3516	--	16	2-3/8	16	2-1/2	--	2-1/16	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12	
	PHI2316	---	--	10/12	2-3/8	16	2-1/2	6-1/2	2-5/16	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16	
2-1/4 - 2-5/16 x 16	PHM2316	WP3516	x	7/10	2-3/8	16	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3570	3570	3080	2865	2865	--	--	10, F16	
	MPH2316	WM3516	--	12	2-3/8	16	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	3855	--	5, F11	
	TFL2318	---	x	18	2-3/8	18	2-3/8	--	2	14	10d	2	10d x 1-1/2	2685	2685	2685	2685	2685	2255	--	265	5, F10	
	TFI3518	MIT3518	--	16	2-3/8	18	2-1/2	--	2-1/16	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12	
	PHI2318	---	x	10/12	2-3/8	18	2-1/2	6-1/2	2-5/16	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16	
	PHM2318	WP3518	x	7/10	2-3/8	18	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3570	3570	3080	2865	2865	--	--	10, F16	
2-1/4 - 2-5/16 x 18	MPH2318	WM3518	x	12	2-3/8	18	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	3855	--	5, F11	
	THO23200	---	x	18	2-3/8	20	2-3/8	--	2	14	10d	2	10d x 1-1/2	2685	2685	2685	2685	2685	2255	--	265	5, F10	
	TFI3520	MIT3520	--	16	2-3/8	20	2-1/2	--	2-1/16	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12	
	PHI2320	---	x	10/12	2-3/8	20	2-1/2	6-1/2	2-5/16	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16	
	PHM2320	WP3520	x	7/10	2-3/8	20	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3570	3570	3080	2865	2865	--	--	10, F16	
	MPH2320	WM3520	x	12	2-3/8	20	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	3855	--	5, F11	

- When I-joist is used as a header, all nails must be 10d x 1-1/2.
- 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- Duplex nails are No. 8 wire gauge (0.162" diameter) and 3-1/2" long, double headed nails.
- NA16D-RS nails are 9 gauge (0.148" diameter) by 3-1/2" long, hardened ring shank nails.
- Masonry compressive strength shall be minimum 1500 psi for MPH hangers.
- Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- Some listed loads may be increased for short-term loading. Refer to code evaluation reports for USP Structural Connectors for details.
- Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
- When I-Joists with flanges less than 1-1/2" thick are used as headers, the published capacity shall be reduced. Contact USP for additional information.

**Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**

New products or updated product information are designated in red.



# EWP TOP MOUNT HANGER CHARTS CONTINUED



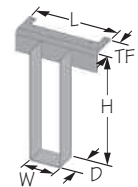
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Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,5</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>						DF-L / SP Uplift <sup>6</sup>	Code Ref.	
					W	H	D	L	TF	Header		Joist		Header Material								
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF			Masonry
2-1/4 - 2-5/16 x 24	TFI3524	---	--	16	2-3/8	24	2-1/2	--	2-1/16	10	16d	2	10d x 1-1/2	--	3245	2920	2950	3245	2345	--	360	2, F20, R12
	PHM2324	---	x	7/10	2-3/8	24	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3570	3570	3080	2865	2865	--	--	10, F16
2-1/2 x 9-1/4	TFL25925	ITT39.25	--	18	2-1/2	9-1/4	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
	PHI25925	WI39.25	--	10/12	2-9/16	9-1/4	2-1/2	6-1/2	2-1/2	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16
	MPH25925	---	--	12	2-1/2	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5, F11
2-1/2 x 9-3/8	TFL25938	ITT39.37	--	18	2-1/2	9-3/8	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
2-1/2 x 9-1/2	TFL2595	ITT39.5	--	18	2-1/2	9-1/2	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
	THO25950	---	--	18	2-9/16	9-1/2	2-3/8	--	1-15/16	10	10d	2	10d x 1-1/2	1625	1625	1625	1625	1625	1365	--	265	5, F10
	PHI2595	WI39.5	--	10/12	2-9/16	9-1/2	2-1/2	6-1/2	2-1/2	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16
	MPH2595	---	--	12	2-1/2	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5, F11
2-1/2 x 11-1/4	TFL25112	ITT311.25	--	18	2-1/2	11-1/4	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
	PHI25112	WI311.25	--	10/12	2-9/16	11-1/4	2-1/2	6-1/2	2-1/2	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16
	MPH25112	---	--	12	2-1/2	11-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5, F11
2-1/2 x 11-1/2	TFL25115	---	--	18	2-1/2	11-1/2	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
2-1/2 x 11-7/8	TFL25118	ITT311.88	--	18	2-1/2	11-7/8	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
	THO25118	---	--	16	2-9/16	11-7/8	2-3/8	--	1-15/16	10	10d	2	10d x 1-1/2	1835	1835	1835	1835	1835	1540	--	265	5, F10
	PHI25118	---	--	10/12	2-9/16	11-7/8	2-1/2	6-1/2	2-1/2	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16
	MPH25118	WM311.88	--	12	2-1/2	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5, F11
2-1/2 x 13	TFL2513	ITT313	--	18	2-1/2	13	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
2-1/2 x 14	TFL2514	ITT314	--	18	2-1/2	14	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
	THO25140	---	--	18	2-9/16	14	2-3/8	--	2	12	10d	2	10d x 1-1/2	2715	2715	2715	2715	2715	2280	--	265	5, F10
	TFI314	MIT314	--	16	2-9/16	14	2-1/2	--	2	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12
	PHI2514	---	--	10/12	2-9/16	14	2-1/2	6-1/2	2-1/2	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16
	PHM2514	WPI314	--	7/10	2-9/16	14	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3570	3570	3080	2865	2865	--	--	10, F16
	PHX2514	---	--	3/10	2-9/16	14	3-7/8	10	3	4	16d	2	10d x 1-1/2	--	6015	5255	5755	5210	4370	--	--	10, F16
	MPH2514	WMI314	--	12	2-1/2	14	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5, F11
2-1/2 x 16	TFL2516	ITT316	--	18	2-1/2	16	2	--	1-1/2	6	10d	2	10d x 1-1/2	1245	1645	1600	1700	1600	1230	--	360	1
	TFI316	MIT316	--	16	2-9/16	16	2-1/2	--	2	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12
	PHI2516	---	--	10/12	2-9/16	16	2-1/2	6-1/2	2-1/2	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16
	PHM2516	WPI316	--	7/10	2-9/16	16	2-1/2	7	3	2	16d	2	10d x 1-1/2	--	3570	3570	3080	2865	2865	--	--	10, F16
	MPH2516	WMI316	--	12	2-1/2	16	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5, F11
2-1/2 x 18	THO25180	---	x	18	2-9/16	18	2-3/8	--	2	14	10d	2	10d x 1-1/2	2685	2685	2685	2685	2685	2255	--	265	5, F10
	TFI318	MIT318	--	16	2-9/16	18	2-1/2	--	2	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12
	MPH2518	WMI318	x	12	2-1/2	18	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5, F11
2-1/2 x 20	THO25200	---	x	18	2-9/16	20	2-3/8	--	2	14	10d	2	10d x 1-1/2	2685	2685	2685	2685	2685	2255	--	265	5, F10
	TFI320	MIT320	--	16	2-9/16	20	2-1/2	--	2	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12
	MPH2520	WMI320	x	12	2-1/2	20	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5, F11
2-1/2 x 22	TFI322	HIT322	--	16	2-9/16	22	2-1/2	--	2	10	16d	2	10d x 1-1/2	--	3245	2920	2950	3245	2345	--	360	2, F20, R12
	MPH2522	---	x	12	2-1/2	22	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5
2-1/2 x 24	TFI324	HIT324	--	16	2-9/16	24	2-1/2	--	2	10	16d	2	10d x 1-1/2	--	3245	2920	2950	3245	2345	--	360	2, F20, R12
	MPH2524	---	x	12	2-1/2	24	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5
2-1/2 x 26	TFI326	HIT326	--	16	2-9/16	26	2-1/2	--	2	10	16d	2	10d x 1-1/2	--	3245	2920	2950	3245	2345	--	360	2, F20, R12
	MPH2526	---	x	12	2-1/2	26	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4145	--	5
2-1/2 x 28	PHX2528	HWI328	x	3/10	2-9/16	28	3-7/8	10	3	4	16d	2	10d x 1-1/2	--	6015	5255	5755	5210	4370	--	--	10, F16
2-1/2 x 30	PHX2530	HWI330	x	3/10	2-9/16	30	3-7/8	10	3	4	16d	2	10d x 1-1/2	--	6015	5255	5755	5210	4370	--	--	10, F16
2-5/8 x 9-1/2	THO26950	---	--	18	2-11/16	9-1/2	2-3/8	--	2	10	10d	2	10d x 1-1/2	1625	1625	1625	1625	1625	1365	--	265	5, F10
	PHI2695	---	--	10/12	2-11/16	9-1/2	2-1/2	6-1/2	2-5/8	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16
2-5/8 x 11-7/8	THO26118	---	--	16	2-11/16	11-7/8	2-3/8	--	2	10	10d	2	10d x 1-1/2	1835	1835	1835	1835	1835	1540	--	265	5, F10
	PHI26118	---	--	10/12	2-11/16	11-7/8	2-1/2	6-1/2	2-5/8	2	10d x 1-1/2	2	10d x 1-1/2	2010	2005	2005	2005	2005	2005	--	--	10, F16
2-5/8 x 14	THO26140	---	--	18	2-11/16	14	2-3/8	--	2	12	10d	2	10d x 1-1/2	2715	2715	2715	2715	2715	2280	--	265	5, F10
2-5/8 x 16	THO26160	---	--	18	2-11/16	16	2-3/8	--	2	12	10d	2	10d x 1-1/2	2715	2715	2715	2715	2715	2280	--	265	5, F10
2-11/16 x 9-1/4	BPH27925	---	x	12	2-3/4	9-1/4	2-3/8	--	2-1/8	10	16d	4	10d x 1-1/2	--	3495	3510	3775	3495	2625	--	625	10, F16
	PHXU27925	HWU2.75/9.25	--	7	2-3/4	9-1/4	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	6020	5785	6020	5285	3590	--	970	8, F14, R9
	LBH27925	GLTV2.75/9.25	x	10	2-3/4	9-1/4	4	10-3/4	2-3/4	9	NA16D-RS	6	10d x 1-1/2	--	6500	6880	6010	6400	6400	--	1275	10, F16
	HLBH27925																					

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>						DF-L / SP Uplift <sup>6</sup>		
					W	H	D	L	TF	Header		Joist		Header Material						160%	Code Ref.	
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF			Masonry
2-11/16 x 9-1/2	BPH2795	---	x	12	2-3/4	9-1/2	2-3/8	--	2-1/8	10	16d	4	10d x 1-1/2	--	3450	3510	3775	3450	2625	--	625	10, F16
	PHXU2795	HWU2.75/9.5	--	7	2-3/4	9-1/2	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	6020	5785	6020	5285	3590	--	970	8, F14, R9
	LBH2795	GLTV2.75/9.5	x	10	2-3/4	9-1/2	4	10-3/4	2-3/4	9	NA16D-RS	6	10d x 1-1/2	--	6500	6880	6010	6400	6400	--	1275	10, F16
	HLBH2795	HGLTV2.75/9.5	x	7	2-3/4	9-1/2	6	12	2-3/4	15	NA16D-RS	6	10d x 1-1/2	--	10225	10540	9600	9600	8915	--	1380	10, F16
	MPH2795	WM2.75/9.5	--	12	2-3/4	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4280	--	5
2-11/16 x 11-1/4	BPH27112	---	x	12	2-3/4	11-1/4	2-3/8	--	2-5/16	10	16d	4	10d x 1-1/2	--	3495	3510	3775	3495	2625	--	625	10, F16
	PHXU27112	HWU2.75/11.25	--	7	2-3/4	11-1/4	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	6020	5785	6020	5285	3590	--	970	8, F14, R9
	LBH27112	GLTV2.75/11.25	x	10	2-3/4	11-1/4	4	10-3/4	2-3/4	9	NA16D-RS	6	10d x 1-1/2	--	6500	6880	6010	6400	6400	--	1275	10, F16
	HLBH27112	HGLTV2.75/11.25	x	7	2-3/4	11-1/4	6	12	2-3/4	15	NA16D-RS	6	10d x 1-1/2	--	10225	10540	9600	9600	8915	--	1380	10, F16
	MPH27112	WM2.75/11.25	--	12	2-3/4	11-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4280	--	5
2-11/16 x 11-7/8	BPH27118	---	x	12	2-3/4	11-7/8	2-3/8	--	2-5/16	10	16d	4	10d x 1-1/2	--	3495	3510	3775	3495	2625	--	625	10, F16
	PHXU27118	HWU2.75/11.88	--	7	2-3/4	11-7/8	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	6020	5785	6020	5285	3590	--	970	8, F14, R9
	LBH27118	GLTV2.75/11.88	x	10	2-3/4	11-7/8	4	10-3/4	2-3/4	9	NA16D-RS	6	10d x 1-1/2	--	6500	6880	6010	6400	6400	--	1275	10, F16
	HLBH27118	HGLTV2.75/11.88	x	7	2-3/4	11-7/8	6	12	2-3/4	15	NA16D-RS	6	10d x 1-1/2	--	10225	10540	9600	9600	8915	--	1380	10, F16
	MPH27118	WM2.75/11.88	--	12	2-3/4	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4280	--	5
2-11/16 x 14	BPH2714	---	x	12	2-3/4	14	2-3/8	--	2-1/4	10	16d	4	10d x 1-1/2	--	3495	3510	3775	3495	2625	--	625	10, F16
	PHXU2714	HWU2.75/14	--	7	2-3/4	14	3-1/2	10	2-3/4	4	16d	2	10d x 1-1/2	--	6015	5350	5755	4580	3845	--	--	10, F16
	LBH2714	GLTV2.75/14	x	10	2-3/4	14	4	10-3/4	2-3/4	9	NA16D-RS	6	10d x 1-1/2	--	6500	6880	6010	6400	6400	--	1275	10, F16
	HLBH2714	HGLTV2.75/14	x	7	2-3/4	14	6	12	2-3/4	15	NA16D-RS	6	10d x 1-1/2	--	10225	10540	9600	9600	8915	--	1380	10, F16
	MPH2714	WM2.75/14	--	12	2-3/4	14	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4280	--	5
2-11/16 x 16	BPH2716	---	x	12	2-3/4	16	2-3/8	--	2-1/4	10	16d	4	10d x 1-1/2	--	3495	3510	3775	3495	2625	--	625	10, F16
	PHXU2716	HWU2.75/16	--	7	2-3/4	16	3-1/4	10	2-1/2	8	16d	6	10d x 1-1/2	--	6020	5785	6020	5285	3590	--	970	8, F14, R9
	LBH2716	GLTV2.75/16	x	10	2-3/4	16	4	10-3/4	2-3/4	9	NA16D-RS	6	10d x 1-1/2	--	6500	6880	6010	6400	6400	--	1275	10, F16
	HLBH2716	HGLTV2.75/16	x	7	2-3/4	16	6	12	2-3/4	15	NA16D-RS	6	10d x 1-1/2	--	10225	10540	9600	9600	8915	--	1380	10, F16
	MPH2716	WM2.75/16	--	12	2-3/4	16	2-1/2	7	3-3/4	2	16d duplex	2	10d x 1-1/2	--	--	--	--	--	--	4280	--	5
3 x 9-1/4	THO15925-2	---	x	16	3-1/16	9-1/4	2-3/8	--	1-1/2	10	16d	6	10d	2630	2330	2490	2490	2500	1855	--	1115	5, F10
	BPH31925	---	x	12	3-1/8	9-1/4	2-3/8	--	2-5/16	10	16d	4	10d	--	3440	3510	3775	3440	2815	--	625	10, F16
	PHM15925-2	WP29.25-2	x	7/10	3-1/8	9-1/4	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	2865	2865	--	--	10, F16
	PHX15925-2	---	x	3/10	3-1/8	9-1/4	3-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
	MPH210-2	WM29.25-2	x	12	3-1/8	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
3 x 9-1/2	THO15950-2	MIT29.5-2	x	16	3-1/16	9-1/2	2-3/8	--	1-1/2	10	16d	6	10d	2630	2330	2490	2490	2500	1860	--	1115	5, F10
	BPH3195	---	x	12	3-1/8	9-1/2	3	--	2-5/16	10	16d	4	10d	--	3440	3510	3775	3440	2815	--	625	10, F16
	PHM1595-2	WP29.5-2	x	7/10	3-1/8	9-1/2	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	2865	2865	--	--	10, F16
	MPH1595-2	WM29.5-2	x	12	3-1/8	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
3 x 11-1/4	THO15112-2	---	x	16	3-1/16	11-1/4	2-3/8	--	1-9/16	10	16d	6	10d	2630	2330	2535	2535	2535	1890	--	1115	5, F10
	BPH31112	---	x	12	3-1/8	11-1/4	3	--	2-3/16	10	16d	4	10d	--	3440	3510	3775	3440	2815	--	800	10, F16
	PHM15112-2	WP211.25-2	x	7/10	3-1/8	11-1/4	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	2865	2865	--	--	10, F16
	PHX15112-2	---	x	3/10	3-1/8	11-1/4	3-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
	MPH15112-2	WM211.25-2	x	12	3-1/8	11-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
3 x 11-7/8	THO15118-2	MIT211.88-2	x	16	3-1/16	11-7/8	2-3/8	--	1-1/2	10	16d	6	10d	2630	2330	2465	2465	2490	1845	--	1115	5, F10
	BPH31118	---	x	12	3-1/8	11-7/8	3	--	2-3/16	10	16d	4	10d	--	3440	3510	3775	3440	2815	--	800	10, F16
	PHM15118-2	WP211.88-2	x	7/10	3-1/8	11-7/8	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	2865	2865	--	--	10, F16
	PHX15118-2	---	x	3/10	3-1/8	11-7/8	3-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
MPH15118-2	WM211.88-2	x	12	3-1/8	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11	
3 x 14	THO15140-2	---	x	12	3-1/16	14	3	--	2-1/8	10	16d	6	10d	2630	2330	2535	2535	2535	2130	--	1175	5, F10
	BPH3114	---	x	12	3-1/8	14	3	--	2-3/16	10	16d	4	10d	--	3440	3510	3775	3440	2815	--	800	10, F16
	MPH1514-2	---	x	12	3-1/8	14	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11

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- 1) When I-joist is used as a header, all nails must be 10d x 1-1/2.
- 2) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- 3) Duplex nails are No. 8 wire gauge (0.162" diameter) and 3-1/2" long, double headed nails.
- 4) NA16D-RS nails are 9 gauge (0.148" diameter) by 3-1/2" long, hardened ring shank nails.
- 5) Masonry compressive strength shall be minimum 1500 psi for MPH hangers.
- 6) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted
- 7) Some listed loads may be increased for short-term loading. Refer to code evaluation reports for USP Structural Connectors for details.
- 8) Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
- 9) When I-joists with flanges less than 1-1/2" thick are used as headers, the published capacity shall be reduced. Contact USP for additional information.



**Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**

New products or updated product information are designated in red.

# EWP TOP MOUNT HANGER CHARTS CONTINUED



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Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>						DF-L / SP Uplift <sup>6</sup>			
					W	H	D	L	TF	Header		Joist		Header Material						160%	Code Ref.		
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF			Masonry	
3-1/2 x 9-1/4	THO35925	ITT49.25	--	16	3-9/16	9-1/4	2-3/8	--	2-1/2	10	10d	2	10d x 1-1/2	2050	2050	2050	2050	2050	1720	--	265	5, F10	
	BPH35925	---	x	12	3-9/16	9-1/4	2-3/8	--	2-1/4	10	16d	4	10d	--	3485	3510	3775	3485	3280	--	815	10, F16	
	PHI35925	---	--	10/12	3-9/16	9-1/4	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10, F16	
	PHM35925	WPI49.25	x	7/10	3-5/8	9-1/4	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
	PHX35925	HWI49.25	x	3/10	3-9/16	9-1/4	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4230	--	--	--	10, F16
	PHXU35925	HWU3.56/9.25	x	7	3-5/8	9-1/4	3-1/4	10	2-1/2	8	16d	6	10d	--	6650	5785	6420	5285	3590	--	1290	8, F14, R9	
	LBH35925	---	x	10	3-5/8	9-1/4	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1420	10, F16	
	HLBH35925	HGLTV3.56/9.25	x	7	3-5/8	9-1/4	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	
	MPH410	WM410	--	12	3-9/16	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11	
3-1/2 x 9-3/8	THO35938	ITT49.37	--	16	3-9/16	9-3/8	2-3/8	--	2-9/16	10	10d	2	10d x 1-1/2	2050	2050	2050	2050	2050	1720	--	265	5, F10	
3-1/2 x 9-1/2	THO35950	ITT49.5	--	16	3-9/16	9-1/2	2-3/8	--	2-7/16	10	10d	2	10d x 1-1/2	2050	2050	2050	2050	2050	1720	--	265	5, F10	
	THO17950-2	MIT49.5	x	16	3-9/16	9-1/2	2-3/8	--	1-9/16	10	16d	6	10d	2630	2330	2555	2555	2480	1905	--	1115	5	
	BPH3595	---	x	12	3-9/16	9-1/2	2-3/8	--	2-1/4	10	16d	4	10d	--	3485	3510	3775	3485	3280	--	815	10, F16	
	PHI1795-2	---	x	12	3-5/8	9-1/2	2-1/2	6-1/2	3	2	16d	2	10d x 1-1/2	2705	2600	2600	2440	2435	1655	--	--	--	10, F16
	PHI3595	---	--	10/12	3-9/16	9-1/2	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10, F16	
	PHM3595	WPI49.5	x	7/10	3-5/8	9-1/2	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
	PHX3595	HWI49.5	x	3/10	3-9/16	9-1/2	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	--	10, F16
	PHXU3595	HWU3.56/9.5	x	7	3-5/8	9-1/2	3-1/4	10	2-1/2	8	16d	6	10d	--	6650	5785	6420	5285	3590	--	1290	8, F14, R9	
	LBH3595	GLTV3.59	x	10	3-5/8	9-1/2	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1420	10, F16	
	HLBH3595	HGLTV3.59	x	7	3-5/8	9-1/2	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	
		MPH1795-2	WM3.56/9.5	--	12	3-5/8	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
	3-1/2 x 11-1/4	THO35112	ITT411.25	--	16	3-9/16	11-1/4	2-3/8	--	2-1/2	10	10d	2	10d x 1-1/2	2050	2050	2050	2050	2050	1720	--	265	5, F10
BPH35112		---	x	12	3-9/16	11-1/4	2-3/8	--	2-1/4	10	16d	4	10d	--	3485	3510	3775	3485	3280	--	815	10, F16	
PHM35112		---	x	7/10	3-5/8	11-1/4	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
PHX35112		HWI411.25	x	3/10	3-9/16	11-1/4	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	--	10, F16
PHXU35112		HWU3.56/11.25	x	7	3-5/8	11-1/4	3-1/4	10	2-1/2	8	16d	6	10d	--	6650	5785	6420	5285	3590	--	1290	8, F14, R9	
LBH35112		GLTV3.56/11.25	x	10	3-5/8	11-1/4	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1420	10, F16	
HLBH35112		HGLTV3.56/11.25	x	7	3-5/8	11-1/4	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	
		MPH412	WM412	--	12	3-9/16	11-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
3-1/2 x 11-1/2	THO35115	---	--	16	3-9/16	11-1/2	2-3/8	--	2-1/2	10	10d	2	10d x 1-1/2	2050	2050	2050	2050	2050	1720	--	265	5, F10	
	BPH35115	---	x	12	3-9/16	11-1/2	2-3/8	--	2-1/4	10	16d	4	10d	--	3485	3510	3775	3485	3280	--	815	10, F16	
3-1/2 x 11-7/8	THO35118	ITT411.88	--	18	3-9/16	11-7/8	2-3/8	--	2-1/2	10	10d	2	10d x 1-1/2	2050	2050	2050	2050	2050	1720	--	265	5, F10	
	THO17118-2	MIT411.88	x	16	3-9/16	11-7/8	2-3/8	--	1-9/16	10	16d	6	10d	2630	2330	2355	2355	2075	1765	--	1115	5	
	BPH35118	B3.56/11.88	x	12	3-9/16	11-7/8	2-3/8	--	2-1/4	10	16d	4	10d	--	3485	3510	3775	3485	3280	--	815	10, F16	
	PHI17118-2	---	x	12	3-5/8	11-7/8	2-1/2	6-1/2	3	2	16d	2	10d x 1-1/2	2705	2600	2600	2440	2435	1655	--	--	--	10, F16
	PHI35118	---	--	10/12	3-9/16	11-7/8	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10	
	PHM35118	WPI411.88	x	7/10	3-5/8	11-7/8	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
	PHX35118	HWI411.88	x	3/10	3-9/16	11-7/8	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	--	10, F16
	PHXU35118	HWU3.56/11.88	x	7	3-5/8	11-7/8	3-1/4	10	2-1/2	8	16d	6	10d	--	6650	5785	6420	5285	3590	--	1290	8, F14, R9	
3-1/2 x 12	LBH35118	GLTV3.511	x	10	3-5/8	11-7/8	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1420	10, F16	
	HLBH35118	HGLTV3.511	x	7	3-5/8	11-7/8	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	
		MPH3512	WM412	--	12	3-1/2	12	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
	3-1/2 x 12-1/2	THO35125	---	--	18	3-9/16	12-1/2	2-3/8	--	2-3/8	10	10d	2	10d x 1-1/2	2050	2050	2050	2050	2050	1720	--	265	5, F10
	3-1/2 x 13	THO35130	ITT413	--	18	3-9/16	13	2-3/8	--	2-1/2	10	10d	2	10d x 1-1/2	2050	2050	2050	2050	2050	1720	--	265	5, F10



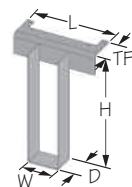
continued on next page

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>						DF-L / SP Uplift <sup>6</sup>	Code Ref.		
					W	H	D	L	TF	Header		Joist		Header Material									
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF			Masonry	
3-1/2 x 14	THO35140	ITT414	-	18	3-9/16	14	2-3/8	--	2-1/2	12	10d	2	10d x 1-1/2	2715	2715	2715	2715	2715	2280	--	265	5, F10	
	TFI414	MIT414	--	16	3-9/16	14	2-1/2	--	2-1/8	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12	
	BPH3514	B3.56/14	x	12	3-9/16	14	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10, F16	
	PHI3514	---	--	10/12	3-9/16	14	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10, F16	
	PHM3514	WPI414	x	7/10	3-5/8	14	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
	PHX3514	HWI414	x	3/10	3-9/16	14	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	--	10, F16
	PHXU3514	HWU3.56/14	x	7	3-5/8	14	3-1/4	10	2-1/2	8	16d	6	10d	--	6650	5785	6420	5285	3590	--	1290	8, F14, R9	
	LBH3514	GLTV3.514	x	10	3-5/8	14	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1420	10, F16	
	HLBH3514	HGLTV3.514	x	7	3-5/8	14	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	
MPH3514	WMI414	--	12	3-1/2	14	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11		
3-1/2 x 16	THO35160	---	--	18	3-9/16	16	2-3/8	--	2-1/2	12	10d	2	10d x 1-1/2	2715	2715	2715	2715	2715	2280	--	265	5, F10	
	TFI416	MIT416	--	16	3-9/16	16	2-1/2	--	2-1/8	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12	
	BPH3516	B3.56/16	x	12	3-9/16	16	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10, F16	
	PHI3516	---	--	10/12	3-9/16	16	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10, F16	
	PHM3516	WPI416	x	7/10	3-5/8	16	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
	PHX3516	HWI416	x	3/10	3-9/16	16	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	--	10, F16
	PHXU3516	HWU3.56/16	x	7	3-5/8	16	3-1/4	10	2-1/2	8	16d	6	10d	--	6650	5785	6420	5285	3590	--	1290	8, F14, R9	
	LBH3516	GLTV3.516	x	10	3-5/8	16	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1420	10, F16	
	HLBH3516	HGLTV3.516	x	7	3-5/8	16	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	
MPH3516	WMI416	--	12	3-1/2	16	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11		
3-1/2 x 18	THO35180	---	x	18	3-9/16	18	2-3/8	--	2-1/2	14	10d	2	10d x 1-1/2	2685	2685	2685	2685	2685	2255	--	265	5, F10	
	TFI418	MIT418	--	16	3-9/16	18	2-1/2	--	2-1/8	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12	
	BPH3518	---	x	12	3-9/16	18	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10, F16	
	PHI3518	---	x	10/12	3-9/16	18	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10, F16	
	PHM3518	WPI418	x	7/10	3-5/8	18	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
	PHX3518	HWI418	x	3/10	3-9/16	18	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	--	10, F16
	PHXU3518	HWU3.56/18	x	7	3-5/8	18	3-1/4	10	2-1/2	8	16d	6	10d	--	6650	5785	6420	5285	3590	--	1290	8, F14, R9	
	LBH3518	GLTV3.518	x	10	3-5/8	18	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1420	10, F16	
	HLBH3518	HGLTV3.518	x	7	3-5/8	18	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	
MPH3518	WMI418	x	12	3-1/2	18	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11		
3-1/2 x 20	THO35200	---	x	18	3-9/16	20	2-3/8	--	2-1/2	14	10d	2	10d x 1-1/2	2685	2685	2685	2685	2685	2255	--	265	5, F10	
	TFI420	MIT420	--	16	3-9/16	20	2-1/2	--	2-1/8	6	16d	2	10d x 1-1/2	--	2560	2235	2265	2560	1660	--	360	2, F20, R12	
	BPH3520	---	x	12	3-9/16	20	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10, F16	
	PHI3520	---	x	10/12	3-9/16	20	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10, F16	
	PHM3520	WPI420	x	7/10	3-5/8	20	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
	PHX3520	HWI420	x	3/10	3-9/16	20	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	--	10, F16
	PHXU3520	HWU3.56/20	x	7	3-5/8	20	3-1/4	10	2-1/2	8	16d	6	10d	--	6650	5785	6420	5285	3590	--	1290	8, F14, R9	
	LBH3520	HGLTV3.520	x	7	3-5/8	20	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	
	MPH3520	WMI420	x	12	3-1/2	20	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11	
3-1/2 x 22	TFI422	HIT422	--	16	3-9/16	22	2-1/2	--	2-1/8	10	16d	2	10d x 1-1/2	--	3245	2920	2950	3245	2345	--	360	2, F20, R12	
	BPH3522	---	x	12	3-9/16	22	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10, F16	
	PHI3522	---	x	10/12	3-9/16	22	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10, F16	
	PHM3522	WPI422	x	7/10	3-5/8	22	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	--	10, F16
	PHX3522	HWI422	x	3/10	3-9/16	22	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	--	10, F16
	HLBH3522	---	x	7	3-5/8	22	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16	

- When I-joist is used as a header, all nails must be 10d x 1-1/2.
- 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- Duplex nails are No. 8 wire gauge (0.162" diameter) and 3-1/2" long, double headed nails.
- NA16D-RS nails are 9 gauge (0.148" diameter) by 3-1/2" long, hardened ring shank nails.
- Masonry compressive strength shall be minimum 1500 psi for MPH hangers.
- Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
- Some listed loads may be increased for short-term loading. Refer to code evaluation reports for USP Structural Connectors for details.
- Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
- When I-joists with flanges less than 1-1/2" thick are used as headers, the published capacity shall be reduced. Contact USP for additional information.

**Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**

New products or updated product information are designated in red.



continued on next page

# EWP TOP MOUNT HANGER CHARTS CONTINUED



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Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>							DF-L / SP	
					W	H	D	L	TF	Header		Joist		Header Material							Uplift <sup>6</sup>	Code Ref.
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF	Masonry		
3-1/2 x 24	TFI424	HIT424	--	16	3-9/16	24	2-1/2	--	2-1/8	10	16d	2	10d x 1-1/2	--	3245	2920	2950	3245	2345	--	360	2, F20, R12
	BPH3524	---	x	12	3-9/16	24	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10
	PHI3524	---	x	10/12	3-9/16	24	2-1/2	6-1/2	3	2	10d x 1-1/2	2	10d x 1-1/2	2150	2150	2150	2150	2150	--	--	--	10, F16
	PHM3524	WPI424	x	7/10	3-5/8	24	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10, F16
	PHX3524	HWI424	x	3/10	3-9/16	24	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	10, F16
	LBH3524	---	x	10	3-5/8	24	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1420	10, F16
3-1/2 x 26	TFI426	HIT426	--	16	3-9/16	26	2-1/2	--	2-1/8	10	16d	2	10d x 1-1/2	--	3245	2920	2950	3245	2345	--	360	2, F20, R12
	BPH3526	---	x	12	3-9/16	26	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10
	PHM3526	WPI426	x	7/10	3-5/8	26	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10, F16
	PHX3526	HWI426	x	3/10	3-9/16	26	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	10, F16
	LBH3526	---	x	7	3-5/8	26	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16
	3-1/2 x 28	BPH3528	---	x	12	3-9/16	28	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140
PHM3528		WPI428	x	7/10	3-5/8	28	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10, F16
PHX3528		HWI428	x	3/10	3-9/16	28	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	10, F16
LBH3528		---	x	7	3-5/8	28	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16
3-1/2 x 30	BPH3530	---	x	12	3-9/16	30	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10
	PHM3530	WPI430	x	7/10	3-5/8	30	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10, F16
	PHX3530	HWI430	x	3/10	3-9/16	30	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	10, F16
	LBH3530	---	x	7	3-5/8	30	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1420	10, F16
3-1/2 x 32	BPH3532	---	x	12	3-9/16	32	3	--	2-1/4	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1140	10
	PHM3532	WPI432	x	7/10	3-5/8	32	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10, F16
	PHX3532	HWI432	x	3/10	3-9/16	32	2-1/2	10	3	4	16d	2	10d	--	6015	5350	5755	5210	4370	--	--	10, F16
4 - 4-3/16 x 9-1/2	THO20950-2	LBV4.12/9.5, LBV4.28/9.5	x	16	4-3/16	9-1/2	3	--	2	10	16d	6	10d	2630	2330	2665	2665	2665	2240	--	1115	5
	PHM4295	---	x	7/10	4-3/16	9-1/2	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10
4 - 4-3/16 x 11-7/8	THO20118-2	LBV4.12/11.88, LBV4.28/11.88	x	16	4-3/16	11-7/8	3	--	2	10	16d	6	10d	2630	2330	2700	2700	2700	2270	--	1115	5
	PHM42118	---	x	7/10	4-3/16	11-7/8	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10
4 - 4-3/16 x 14	THO20140-2	LBV4.12/14, LBV4.28/14	x	12	4-3/16	14	3	--	1-15/16	10	16d	6	10d	2630	2330	3700	3700	3700	2765	--	1175	5
	PHM4214	---	x	7/10	4-3/16	14	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10
4 - 4-3/16 x 16	THO20160-2	LBV4.12/16, LBV4.28/16	x	12	4-3/16	16	3	--	1-15/16	10	16d	6	10d	2630	2330	3700	3700	3700	2765	--	1175	5
	PHM4216	---	x	7/10	4-3/16	16	2-1/2	7	3	2	16d	2	10d	--	3745	3570	3080	3255	3255	--	--	10
4-1/2 - 4-5/8 x 9-1/4	THO23925-2	---	x	12	4-3/4	9-1/4	3	--	2-1/16	10	16d	6	10d	2630	3535	3665	3665	3665	2775	--	1175	5, F10
	PHM23925-2	---	x	7/10	4-3/4	9-1/4	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	MPH23925-2	---	x	12	4-5/8	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	4280	--	--	5, F11
4-1/2 - 4-5/8 x 9-1/2	THO23950-2	---	x	12	4-3/4	9-1/2	3	--	2	10	16d	6	10d	2630	3535	3635	3635	3665	2675	--	1175	5, F10
	PHM2395-2	WP359.5-2	x	7/10	4-3/4	9-1/2	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	MPH2395-2	---	x	12	4-5/8	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	4280	--	--	5, F11
4-1/2 - 4-5/8 x 11-1/4	THO23112-2	---	x	12	4-3/4	11-1/4	3	--	2-1/8	10	16d	6	10d	2630	3535	3665	3665	3665	3005	--	1175	5, F10
	PHM23112-2	---	x	7/10	4-3/4	11-1/4	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	THO23118-2	MIT3511.88-2	x	12	4-3/4	11-7/8	3	--	2-1/8	10	16d	6	10d	2630	3535	3665	3665	3665	3005	--	1175	5, F10
4-1/2 - 4-5/8 x 11-7/8	PHM23118-2	WP3511.88-2	x	7/10	4-3/4	11-7/8	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	MPH23118-2	WM3511.88-2	x	12	4-5/8	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	4280	--	--	5, F11
	4-1/2 - 4-5/8 x 12	THO23120-2	---	x	12	4-3/4	12	3	--	2-1/8	10	16d	6	10d	2630	3535	3665	3665	3665	3005	--	1175
THO23140-2		MIT3514-2	x	12	4-3/4	14	3	--	2-1/8	12	16d	6	10d	2630	3535	4405	4405	4450	3265	--	1175	5, F10
PHM2314-2		WP3514-2	x	7/10	4-3/4	14	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
PHX2314-2		---	x	3/10	4-3/4	14	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
4-1/2 - 4-5/8 x 16	MPH2314-2	WM3514-2	x	12	4-5/8	14	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	4280	--	--	5, F11
	THO23160-2	---	x	12	4-3/4	16	3	--	2-1/8	12	16d	6	10d	2630	3535	4405	4405	4450	3265	--	1175	5, F10
	PHM2316-2	WP3516-2	x	7/10	4-3/4	16	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2316-2	---	x	3/10	4-3/4	16	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
4-1/2 - 4-5/8 x 18	MPH2316-2	WM3516-2	x	12	4-5/8	16	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	4280	--	--	5, F11
	THO23180-2	---	x	12	4-3/4	18	3	--	2-1/8	14	16d	6	10d	2630	3535	4685	4685	4770	3520	--	1175	5, F10
	PHM2318-2	WP3518-2	x	7/10	4-3/4	18	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2318-2	---	x	3/10	4-3/4	18	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
4-1/2 - 4-5/8 x 18	MPH2318-2	WM3518-2	x	12	4-5/8	18	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	4280	--	--	5, F11

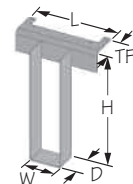
continued on next page

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>						DF-L / SP Uplift <sup>6</sup>	Code Ref.	
					W	H	D	L	TF	Header		Joist		Header Material								
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF			Masonry
4-1/2 - 4-5/8 x 20	THO23200-2	---	x	12	4-3/4	20	3	--	2-1/8	14	16d	6	10d	2630	3535	4685	4685	4770	3520	--	1175	5, F10
	PHM2320-2	WP3520-2	x	7/10	4-3/4	20	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2320-2	---	x	3/10	4-3/4	20	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
	MPH2320-2	WM3520-2	x	12	4-5/8	20	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 9-1/4	THO25925-2	---	x	12	5-1/8	9-1/4	3	--	2-11/16	10	16d	6	10d	2630	3535	3665	3665	3665	3080	--	1175	5, F10
	MPH25925-2	---	x	12	5	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 9-1/2	THO25950-2	MIT39.5-2	x	12	5-1/8	9-1/2	3	--	2-1/8	10	16d	6	10d	2630	3535	3665	3665	3665	2710	--	1175	5, F10
	PHM2595-2	WPI39.5-2	x	7/10	5-1/8	9-1/2	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10
	MPH2595-2	---	x	12	5	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 11-1/4	THO25112-2	---	x	12	5-1/8	11-1/4	3	--	2-1/8	10	16d	6	10d	2630	3535	3665	3665	3665	3005	--	1175	5, F10
	MPH25112-2	---	x	12	5	11-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 11-7/8	THO25118-2	MIT311.88-2	x	12	5-1/8	11-7/8	3	--	2-1/8	10	16d	6	10d	2630	3535	3665	3665	3665	3005	--	1175	5, F10
	PHM25118-2	WPI311.88-2	x	7/10	5-1/8	11-7/8	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	MPH25118-2	---	x	12	5	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 14	THO25140-2	MIT314-2	x	12	5-1/8	14	3	--	2-1/8	12	16d	6	10d	2630	3535	4405	4405	4450	3265	--	1175	5, F10
	PHM2514-2	WPI314-2	x	7/10	5-1/8	14	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2514-2	---	x	3/10	5-1/8	14	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
	MPH2514-2	---	x	12	5	14	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 16	THO25160-2	---	x	12	5-1/8	16	3	--	2-1/8	12	16d	6	10d	2630	3535	4405	4405	4450	3265	--	1175	5, F10
	PHM2516-2	WPI316-2	x	7/10	5-1/8	16	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2516-2	---	x	3/10	5-1/8	16	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
	MPH2516-2	---	x	12	5	16	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 18	THO25180-2	---	x	12	5-1/8	18	3	--	2-1/8	14	16d	6	10d	2630	3535	4685	4685	4770	3520	--	1175	5, F10
	PHM2518-2	WPI318-2	x	7/10	5-1/8	18	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2518-2	---	x	3/10	5-1/8	18	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
	MPH2518-2	---	x	12	5	18	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 20	THO25200-2	---	x	12	5-1/8	20	3	--	2-1/8	14	16d	6	10d	2630	3535	4685	4685	4770	3520	--	1175	5, F10
	PHM2520-2	WPI320-2	x	7/10	5-1/8	20	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2520-2	---	x	3/10	5-1/8	20	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
	MPH2520-2	---	x	12	5	20	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5 x 22	PHM2522-2	WPI322-2	x	7/10	5-1/8	22	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2522-2	---	x	3/10	5-1/8	22	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
5 x 24	PHM2524-2	WPI324-2	x	7/10	5-1/8	24	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2524-2	---	x	3/10	5-1/8	24	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
5 x 26	PHM2526-2	WPI326-2	x	7/10	5-1/8	26	2-1/2	7	3	2	16d	2	10d	--	3745	3255	2965	3255	3255	--	--	10, F16
	PHX2526-2	---	x	3/10	5-1/8	26	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
5 x 28	PHX2528-2	---	x	3/10	5-1/8	28	2-1/2	10	3	4	16d	2	10d	--	6015	5255	5755	5210	4370	--	--	10, F16
5-1/4 x 9-1/4	BPH52925	---	x	12	5-3/8	9-1/4	3	--	2	10	16d	4	10d	--	3495	3515	3775	3495	3280	--	815	10, F16
	PHX52925	---	x	3/10	5-3/8	9-1/4	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU55925	HWU5.50/9.25	x	7	5-1/2	9-1/4	3-1/4	11-1/2	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	PHXU52925	---	x	7	5-3/8	9-1/4	3-1/4	11-3/8	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH52925	---	x	10	5-3/8	9-1/4	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10, F16
	HLBH52925	---	x	7	5-9/16	9-1/4	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
	MPH55925	---	x	12	5-5/8	9-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11

- When I-joist is used as a header, all nails must be 10d x 1-1/2".
- 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
- Duplex nails are No. 8 wire gauge (0.162" diameter) and 3-1/2" long, double headed nails.
- NA16D-RS nails are 9 gauge (0.148" diameter) by 3-1/2" long, hardened ring shank nails.
- Masonry compressive strength shall be minimum 1500 psi for MPH hangers.
- Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted
- Some listed loads may be increased for short-term loading. Refer to code evaluation reports for USP Structural Connectors for details.
- Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
- When I-Joists with flanges less than 1-1/2" thick are used as headers, the published capacity shall be reduced. Contact USP for additional information.

**Load tables address hanger/header/fastener limitations only. Joist limitations must be determined for each installation.**

New products or updated product information are designated in red.



continued on next page

# EWP TOP MOUNT HANGER CHARTS CONTINUED



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Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>						DF-L / SP Uplift <sup>6</sup>	Code Ref.	
					W	H	D	L	TF	Header		Joist		Header Material								
										Qty	Type	Qty	Type	DF-L / SP L-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF			Masonry
5-1/4 x 9-1/2	THO26950-2	---	x	12	5-3/8	9-1/2	3	--	2-3/8	10	16d	6	10d	2630	3535	3665	3665	3665	3025	--	1175	5, F10
	BPH5595	---	x	12	5-9/16	9-1/2	2-3/8	--	2-1/5	10	16d	4	10d	--	3450	3510	3775	3450	3280	--	815	10, F16
	PHM5595	WP5.50/9.5	x	7/10	5-5/8	9-1/2	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX5295	---	x	3/10	5-3/8	9-1/2	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHX5595	---	x	3/10	5-5/8	9-1/2	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU5295	---	x	7	5-3/8	9-1/2	3-1/4	11-3/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	PHXU5595	HWU5.50/9.5	x	7	5-1/2	9-1/2	3-1/4	11-1/2	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH5295	---	x	10	5-3/8	9-1/2	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10, F16
	LBH5595	GLTV5.59	x	10	5-9/16	9-1/2	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10
	HLBH5595	HGLTV5.59	x	7	5-9/16	9-1/2	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
MPH5595	WM5.50/9.5	x	12	5-5/8	9-1/2	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11	
5-1/4 x 11-1/4	THO26112-2	---	x	12	5-3/8	11-1/4	3	--	2-1/8	10	16d	6	10d	2630	3535	3665	3665	3665	3005	--	1175	5, F10
	PHX52112	---	x	3/10	5-3/8	11-1/4	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU55112	HWU5.50/11.25	x	7	5-1/2	11-1/4	3-1/4	11-1/2	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	PHXU52112	---	x	7	5-3/8	11-1/4	3-1/4	11-3/8	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	HLBH55112	---	x	7	5-9/16	11-1/4	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
	MPH55112	---	x	12	5-5/8	11-1/4	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5-1/4 x 11-7/8	THO26118-2	---	x	12	5-3/8	11-7/8	3	--	2-1/8	10	16d	6	10d	2630	3535	3665	3665	3665	3005	--	1175	5, F10
	BPH55118	---	x	12	5-9/16	11-7/8	3	--	2	10	16d	6	10d	--	3430	3510	3775	3430	3280	--	1220	10, F16
	PHM52118	---	x	7/10	5-3/8	11-7/8	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHM55118	WP5.50/11.88	x	7/10	5-5/8	11-7/8	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX52118	---	x	3/10	5-3/8	11-7/8	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHX55118	---	x	3/10	5-5/8	11-7/8	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU52118	---	x	7	5-3/8	11-7/8	3-1/4	11-3/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	PHXU55118	HWU5.50/11.88	x	7	5-1/2	11-7/8	3-1/4	11-1/2	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH52118	---	x	10	5-3/8	11-7/8	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10, F16
	LBH55118	GLTV5.511	x	10	5-9/16	11-7/8	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10
HLBH55118	HGLTV5.511	x	7	5-9/16	11-7/8	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10	
MPH55118	WM5.50/11.88	x	12	5-5/8	11-7/8	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11	
5-1/4 x 12	PHM5212	---	x	7/10	5-3/8	12	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX5212	---	x	3/10	5-3/8	12	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU5512	HWU5.50/12	x	7	5-1/2	12	3-1/4	11-1/2	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH5212	---	x	10	5-3/8	12	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10, F16
	HLBH5512	HGLTV5.512	x	7	5-9/16	12	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
	MPH5512	WM5.50/12	x	12	5-5/8	12	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
5-1/4 x 14	THO26140-2	---	x	12	5-3/8	14	3	--	2-1/8	12	16d	6	10d	2630	3535	4405	4405	4450	3265	--	1175	5, F10
	BPH5514	---	x	12	5-9/16	14	2-3/8	--	2-1/5	10	16d	4	10d	--	3430	3510	3775	3430	3280	--	1220	10, F16
	PHM5514	WP5.50/14	x	7/10	5-5/8	14	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHM5214	---	x	7/10	5-3/8	14	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX5514	---	x	3/10	5-5/8	14	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHX5214	---	x	3/10	5-3/8	14	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU5514	HWU5.50/14	x	7	5-1/2	14	3-1/4	11-1/2	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	PHXU5214	---	x	7	5-3/8	14	3-1/4	11-3/8	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH5514	GLTV5.514	x	10	5-9/16	14	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10
	LBH5214	---	x	10	5-3/8	14	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10, F16
	HLBH5514	HGLTV5.514	x	7	5-9/16	14	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
	MPH5514	WM5.50/14	x	12	5-5/8	14	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11

continued on next page

Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>							DF-L / SP Uplift <sup>6</sup>	Code Ref.
					W	H	D	L	TF	Header		Joist		Header Material								
										Qty	Type	Qty	Type	DF-L / SP J-Joist <sup>9</sup>	LVL	PSL	L.SL	DF-L / SP	SPF	Masonry		
5-1/4 x 16	THO26160-2	---	x	12	5-3/8	16	3	--	2-1/8	12	16d	6	10d	2630	3535	4405	4405	4450	3265	--	1175	5, F10
	BPH5516	---	x	12	5-9/16	16	2-3/8	--	2-1/5	10	16d	4	10d	--	3430	3510	3775	3430	3280	--	1220	10, F16
	PHM5516	WP5.50/16	x	7/10	5-5/8	16	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHM5216	---	x	7/10	5-3/8	16	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX5216	---	x	3/10	5-3/8	16	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU5516	HWU5.50/16	x	7	5-1/2	16	3-1/4	11-1/2	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	PHXU5216	---	x	7	5-3/8	16	3-1/4	11-3/8	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH5516	GLTV5.516	x	10	5-9/16	16	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10
	LBH5216	---	x	10	5-3/8	16	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10, F16
	HLBH5516	HGLTV5.516	x	7	5-9/16	16	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
MPH5516	WM5.50/16	x	12	5-5/8	16	2-1/2	7	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11	
5-1/4 x 18	THO26180-2	---	x	12	5-3/8	18	3	--	2-1/8	14	16d	6	10d	2630	3535	4685	4685	4770	3520	--	1175	5, F10
	BPH5518	---	x	12	5-9/16	18	2-3/8	--	2-1/5	10	16d	4	10d	--	3430	3510	3775	3430	3280	--	1220	10, F16
	PHM5518	WP5.50/18	x	7/10	5-5/8	18	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHM5218	---	x	7/10	5-3/8	18	2-1/2	7	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX5518	HW5.50/18	x	3/10	5-5/8	18	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHX5218	---	x	3/10	5-3/8	18	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU5518	HWU5.50/18	x	7	5-1/2	18	3-1/4	11-1/2	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	PHXU5218	---	x	7	5-3/8	18	3-1/4	11-3/8	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH5518	GLTV5.518	x	10	5-9/16	18	4	10-3/4	3-1/8	9	NA16D-RS	6	16d	--	6500	6880	6010	6400	6400	--	1605	10
	HLBH5518	HGLTV5.518	x	7	5-9/16	18	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
5-1/4 x 20	PHXU5520	HWU5.50/20	x	7	5-1/2	20	3-1/4	11-1/2	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	PHXU5220	---	x	7	5-3/8	20	3-1/4	11-3/8	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	HLBH5520	HGLTV5.520	x	7	5-9/16	20	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
5-1/4 x 24	PHXU5224	---	x	7	5-3/8	24	3-1/4	11-3/8	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	HLBH5524	---	x	7	5-9/16	24	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10565	9600	9600	8915	--	1605	10
7 x 7-1/4	PHXU71725	HWU7.12/7.25	x	7	7-1/8	7-1/4	3-1/4	13-1/8	2-1/2	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	130
7 x 9-1/4	BPH71925	---	x	12	7-1/8	9-1/4	2-3/8	--	2-1/2	10	16d	6	10d	--	3485	3510	3775	3485	3280	--	1220	10, F16
	PHM35925-2	WPI49.25-2	x	7/10	7-1/8	9-1/4	2-1/2	10	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX35925-2	HWI49.25-2	x	3/10	7-1/8	9-1/4	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU71925	HWU7.12/9.25	x	7	7-1/8	9-1/4	3-1/4	13-1/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH71925	---	x	10	7-1/8	9-1/4	4	12	3-1/8	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH71925	---	x	7	7-1/8	9-1/4	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
	MPH35925-2	WMI49.25-2	x	12	7-1/8	9-1/4	2-1/2	8	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
7 x 9-1/2	BPH7195	---	x	12	7-1/8	9-1/2	2-3/8	--	2-1/2	10	16d	6	10d	--	3485	3510	3775	3485	3280	--	1220	10, F16
	PHM3595-2	WPI49.5-2	x	7/10	7-1/8	9-1/2	2-1/2	10	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX3595-2	HWI49.5-2	x	3/10	7-1/8	9-1/2	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU7195	HWU7.12/9.5	x	7	7-1/8	9-1/2	3-1/4	13-1/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH7195	GLTV49.5-2	x	10	7-1/8	9-1/2	4	12	3-1/8	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7195	---	x	7	7-1/8	9-1/2	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
	MPH3595-2	WMI49.5-2	x	12	7-1/8	9-1/2	2-1/2	8	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
7 x 11-1/4	BPH71112	---	x	12	7-1/8	11-1/4	3	--	2-1/4	10	16d	6	10d	--	3455	3515	3775	3455	3280	--	1220	10, F16
	PHM35112-2	WPI411.25-2	x	7/10	7-1/8	11-1/4	2-1/2	10	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX35112-2	HWI411.25-2	x	3/10	7-1/8	11-1/4	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU71112	HWU7.12/11.25	x	7	7-1/8	11-1/4	3-1/4	13-1/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH71112	GLTV411.25-2	x	10	7-1/8	11-1/4	4	12	3-1/8	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH71112	HGLTV411.25-2	x	7	7-1/8	11-1/4	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
	MPH35112-2	WMI411.25-2	x	12	7-1/8	11-1/4	2-1/2	8	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
7 x 11-7/8	BPH71118	B7.12/11.88	x	12	7-1/8	11-7/8	3	--	2-1/4	10	16d	6	10d	--	3455	3515	3775	3455	3280	--	1220	10, F16
	PHM35118-2	WPI411.88-2	x	7/10	7-1/8	11-7/8	2-1/2	10	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX35118-2	HWI411.88-2	x	3/10	7-1/8	11-7/8	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU71118	HWU7.12/11.88	x	7	7-1/8	11-7/8	3-1/4	13-1/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH71118	GLTV411.88-2	x	10	7-1/8	11-7/8	4	12	3-1/8	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH71118	HGLTV411.88-2	x	7	7-1/8	11-7/8	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
	MPH35118-2	WMI411.88-2	x	12	7-1/8	11-7/8	2-1/2	8	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11

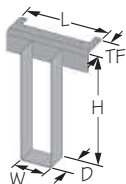
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# EWP TOP MOUNT HANGER CHARTS CONTINUED



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Joist Size	USP Stock No.	Ref. No.	Web Stiffener Req'd.	Steel Gauge	Dimensions					Fastener Schedule <sup>2,3,4,8</sup>				100% Allowable Loads (Lbs.) <sup>1,5,7</sup>							DF-L / SP	
					W	H	D	L	TF	Header		Joist		Header Material							Uplift <sup>6</sup>	Code Ref.
										Qty	Type	Qty	Type	DF-L / SP I-Joist <sup>9</sup>	LVL	PSL	LSL	DF-L / SP	SPF	Masonry		
7 x 12	BPH7112	---	x	12	7-1/8	12	3	--	2-1/4	10	16d	6	10d	--	3455	3515	3775	3455	3280	--	1220	10, F16
	PHM3512-2	---	x	7/10	7-1/8	12	2-1/2	10	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
7 x 14	BPH7114	B7.12/14	x	12	7-1/8	14	3	--	2	10	16d	6	10d	--	3455	3515	3775	3455	3280	--	1220	10, F16
	PHM3514-2	WPI414-2	x	7/10	7-1/8	14	2-1/2	10	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX3514-2	HWI414-2	x	3/10	7-1/8	14	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU7114	HWU7.12/14	x	7	7-1/8	14	3-1/4	13-1/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH7114	GLTV414-2	x	10	7-1/8	14	4	12	3-1/8	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7114	HGLTV414-2	x	7	7-1/8	14	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
	MPH3514-2	WMI414-2	x	12	7-1/8	14	2-1/2	8	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
7 x 16	BPH7116	B7.12/16	x	12	7-1/8	16	3	--	2-1/4	10	16d	6	10d	--	3455	3515	3775	3455	3280	--	1220	10, F16
	PHM3516-2	WPI416-2	x	7/10	7-1/8	16	2-1/2	10	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10, F16
	PHX3516-2	HWI416-2	x	3/10	7-1/8	16	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU7116	HWU7.12/16	x	7	7-1/8	16	3-1/4	13-1/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH7116	GLTV416-2	x	10	7-1/8	16	4	12	3-1/8	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7116	HGLTV416-2	x	7	7-1/8	16	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
	MPH3516-2	WMI416-2	x	12	7-1/8	16	2-1/2	8	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
7 x 18	BPH7118	B7.12/18	x	12	7-1/8	18	3	--	2-1/4	10	16d	6	10d	--	3455	3515	3775	3455	3280	--	1220	10, F16
	PHM3518-2	---	x	7/10	7-1/8	18	2-1/2	10	3	2	16d	2	10d	--	3745	3665	3080	3390	3390	--	--	10
	PHX3518-2	HWI418-2	x	3/10	7-1/8	18	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU7118	HWU7.12/18	x	7	7-1/8	18	3-1/4	13-1/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH7118	GLTV418-2	x	10	7-1/8	18	4	12	3-1/8	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7118	HGLTV418-2	x	7	7-1/8	18	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
	MPH3518-2	WMI418-2	x	12	7-1/8	18	2-1/2	8	3-3/4	2	16d duplex	2	10d	--	--	--	--	--	--	4280	--	5, F11
7 x 20	BPH7120	B7.12/20	x	12	7-1/8	20	3	--	2-1/2	10	16d	6	10d	--	3455	3510	3775	3455	3280	--	1220	10
	PHX7120	HWI420-2	x	3/10	7-1/8	20	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	PHXU7120	HWU7.12/20	x	7	7-1/8	20	3-1/4	13-1/8	3	8	16d	6	10d	--	6650	5785	6650	5285	3590	--	1290	8, F14, R9
	LBH7120	GLTV420-2	x	10	7-1/8	20	4	12	3-1/8	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7120	HGLTV420-2	x	7	7-1/8	20	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
7 x 22	BPH7122	B7.12/22	x	12	7-1/8	22	3	--	2-1/2	10	16d	6	10d	--	3455	3510	3775	3455	3280	--	1220	10
	PHX7122	HWI422-2	x	3/10	7-1/8	22	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	LBH7122	GLTV422-2	x	10	7-1/8	22	4	12	3	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7122	HGLTV7.12/22	x	7	7-1/8	22	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
7 x 24	BPH7124	B7.12/24	x	12	7-1/8	24	3	--	2-1/2	10	16d	6	10d	--	3455	3510	3775	3455	3280	--	1220	10
	PHX7124	HWI424-2	x	3/10	7-1/8	24	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	LBH7124	GLTV424-2	x	10	7-1/8	24	4	12	3	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7124	HGLTV7.12/24	x	7	7-1/8	24	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
7 x 26	PHX7126	HWI426-2	x	3/10	7-1/8	26	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	LBH7126	GLTV426-2	x	10	7-1/8	26	4	12	3	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7126	HGLTV426-2	x	7	7-1/8	26	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
7 x 28	PHX7128	HWI428-2	x	3/10	7-1/8	28	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	LBH7128	GLTV428-2	x	10	7-1/8	28	4	12	3	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7128	HGLTV428-2	x	7	7-1/8	28	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
7 x 30	PHX7130	HWI430-2	x	3/10	7-1/8	30	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	LBH7130	GLTV430-2	x	10	7-1/8	30	4	12	3	9	NA16D-RS	6	16d	--	6500	6980	6010	6400	6400	--	1605	10, F16
	HLBH7130	HGLTV430-2	x	7	7-1/8	30	6	12	3-1/8	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10, F16
7 x 32	PHX7132	HWI432-2	x	3/10	7-1/8	32	2-1/2	10	3	4	16d	2	10d	--	6015	5375	5755	5045	4230	--	--	10, F16
	HLBH7132	HGLTV432-2	x	7	7-1/8	32	6	12	3	15	NA16D-RS	6	16d	--	10620	10370	9600	9600	8915	--	1605	10



The TMP and TMPH are designed to make rafter-to-plate connections and eliminates time-consuming bird's-mouth notching or bevel plate installation. Both series are available in I-Joists sizes, as well as standard 2x sizes.

**TMP** – Adjusts to pitches from 1/12 to 6/12.

**TMPH** – Adjusts to pitches from 6/12 to 14/12.

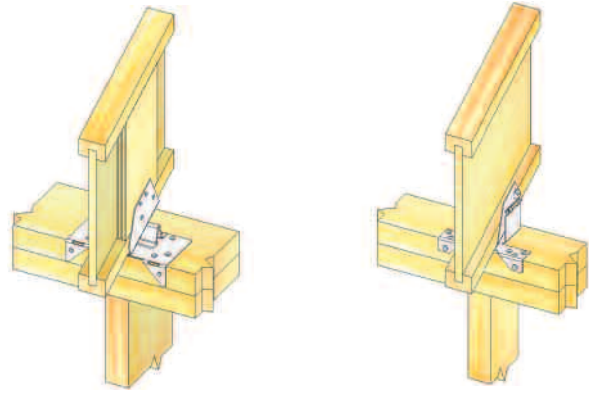
**Materials:** TMP – 18 gauge  
 TMPH – 16 gauge  
 Fulcrum – 12 gauge

**Finish:** G90 galvanizing

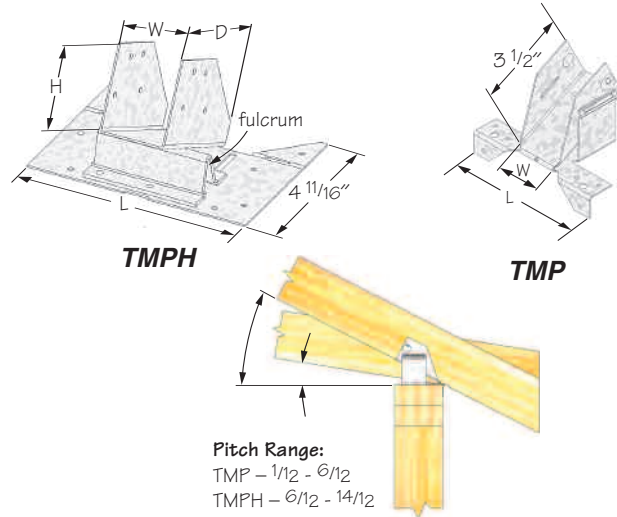
**Codes:** ESR-1781, ESR-1831, FL815, FL822

**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- Position connector on top plate. Fasten connector to outside of top plate with specified nails. Insert rafter into rafter pocket. Adjust rafter and pocket to correct pitch. Fasten rafter to connector with specified nails. Installing the TMP requires driving specified nails through the opposing slots in the pocket. TMPH installation involves sliding the fulcrum until it supports the pocket at the desired pitch and nailing down through the fulcrum base into the top plate to lock the fulcrum into position.



Typical **TMPH** installation      Typical **TMP** installation



**Pitch Range:**  
 TMP – 1/12 - 6/12  
 TMPH – 6/12 - 14/12

Rafter Width	USP Stock No.	Ref. No.	Dimensions				Fastener Schedule <sup>2,3</sup>					Allowable Loads (Lbs.) <sup>1</sup>								Code Ref.		
			W	H	D	L	Plate		Rafter <sup>4</sup>			DF-L / SP										
							Top	Side	Type	Qty	Type	According to Pitch									Uplift	
			Qty	Qty	Type	Qty	Type	6/12	7/12	8/12	9/12	10/12	11/12	12/12	13/12	14/12	160%					
1-1/2	TMPH2	---	1-9/16	2-1/2	4	6-9/16	8	2	10d	8	10d x 1-1/2	3190	3290	3390	3140	2900	2710	2520	2230	1950	200	10, F16
1-3/4	TMPH175	---	1-13/16	2-3/8	4	6-9/16	8	2	10d	8	10d x 1-1/2	3190	3290	3390	3140	2900	2710	2520	2230	1950	200	10, F16
2 or 2-1/8	TMPH21	---	2-1/8	2-5/8	4	7-3/8	8	2	10d	8	10d x 1-1/2	3190	3290	3390	3140	2900	2710	2520	2230	1950	200	10
2-5/16	TMPH23	---	2-3/8	2-1/2	4	7-3/8	8	2	10d	8	10d x 1-1/2	3190	3290	3390	3140	2900	2710	2520	2230	1950	200	10, F16
2-1/2 or 2-5/8	TMPH25	---	2-11/16	2-5/16	4	7-3/8	8	2	10d	8	10d x 1-1/2	3190	3290	3390	3140	2900	2710	2520	2230	1950	200	10
3	TMPH31	---	3-1/8	2-11/16	4	8-9/16	8	2	10d	8	10d x 1-1/2	3190	3290	3390	3140	2900	2710	2520	2230	1950	200	10, F16
3-1/2	TMPH4	---	3-9/16	2-1/2	4	8-9/16	8	2	10d	8	10d x 1-1/2	3190	3290	3390	3140	2900	2710	2520	2230	1950	200	10, F16

1) Allowable Loads may not be increased for duration of load adjustments.

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

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

4) Web stiffeners are required for all Wood I-Joist installations.

New products or updated product information are designated in red

Rafter Width	USP Stock No.	Ref. No.	Steel Gauge	Dimensions		Fastener Schedule <sup>2,3</sup>		Allowable Loads (Lbs.) <sup>1</sup>								Code Ref.
				W	L	Plate	Rafter	DF-L / SP				S-P-F				
								Floor	Roof	Uplift	Floor	Roof	Uplift			
				100%	115%	125%	160%	100%	115%	125%	160%					
1-1/2	TMP2	---	18	1-9/16	5-9/16	(6) 10d	(4) 10d x 1-1/2	990	990	990	220	990	990	990	220	5, F10, R5
1-3/4	TMP175	---	18	1-13/16	5-9/16	(6) 10d	(4) 10d x 1-1/2	1150	1150	1150	220	1150	1150	1150	220	5, F10, R5
2 or 2-1/8	TMP21	---	18	2-1/8	6-3/8	(6) 10d	(4) 10d x 1-1/2	1290	1290	1290	220	1290	1290	1290	220	5
2-5/16	TMP23	---	18	2-3/8	6-3/8	(6) 10d	(4) 10d x 1-1/2	1970	1970	1970	220	1970	1970	1970	220	5, F10, R5
2-1/2 or 2-5/8	TMP25	---	18	2-11/16	6-3/8	(6) 10d	(4) 10d x 1-1/2	1970	1970	1970	220	1970	1970	1970	220	5, F10, R5
3	TMP31	---	18	3-1/8	7-5/16	(6) 10d	(4) 10d x 1-1/2	1970	1970	1970	220	1970	1970	1970	220	5, F10, R5
3-1/2	TMP4	---	18	3-9/16	7-5/16	(6) 10d	(4) 10d x 1-1/2	1970	1970	1970	220	1970	1970	1970	220	5, F10, R5

1) Allowable loads are governed by test results; 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 penetration shall be 1-1/2" for 10d nails.

The LSSH series connects rafters to ridge beams in vaulted roof structures. This series is field adjustable to meet a variety of skew and/or slope applications. Slopes to any pitch to 45° up or down and skews up to 45° right or left.

**Materials:** See chart

**Finish:** G90 galvanizing

**Options:** LSSH210 and LSSH31 are available in Triple Zinc. To order, add TZ to stock number, as in **LSSH210-TZ**. LSSH15 and LSSH210 are available in Stainless steel. To order, add SS to stock number, as in **LSSH15-SS**.

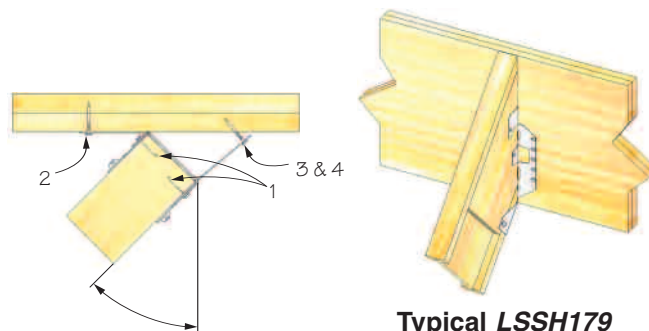
**Codes:** ESR-1781, FL816

**Installation:**

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

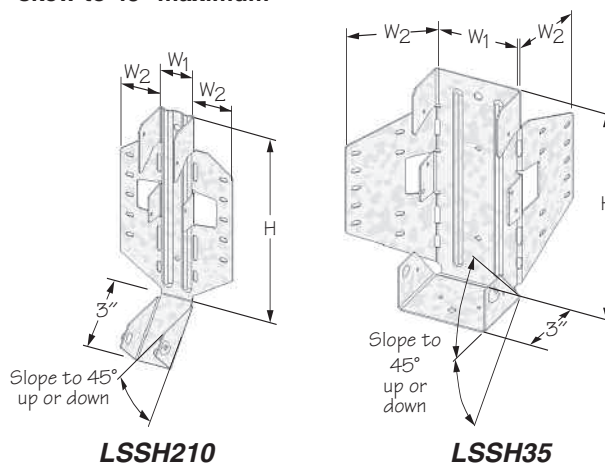
**Steps:**

1. Position LSSH connector against plumb-cut end of joist. Fasten joist side flanges on both sides with 10d x 1 1/2" nails. Bend seat up to fit against joist bottom and drive (1) 10d x 1 1/2" nail through bottom seat into rafter bottom. Drive (2) 10d x 1 1/2" nails at downward angle through dimpled nailing guides.
  2. Lean connector and rafter end against ridge beam at desired position. Install 10d or 16d nails through nail holes into ridge beam at right 90° angle. If skewing the rafter, only drive nails into ridge beam on inside flange.
  3. Bend flange to desired angle.
  4. Hammer outside flange until edge touches header. Fasten outside flange to ridge by driving 10d or 16d nails through nail holes.
- Web stiffeners are required for all wood I-Joist installations.
  - Designer may consider adding a tension restraint for the supported member for roof slopes exceeding 6/12.



skew to 45° maximum

Typical LSSH179 installation



LSSH210

LSSH35

Rafter Width	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule <sup>2,3</sup>				Allowable Loads (Lbs.)								Code Ref.
				W1	W2	H	Header		Rafter		DF-L / SP				S-P-F				
							Qty	Type	Qty	Type	Floor	Roof	Uplift <sup>1</sup>	160%	Floor	Roof	Uplift <sup>1</sup>	160%	
<b>SLOPED ONLY HANGERS</b>																			
1-1/2	LSSH15-TZ	LSU26Z	18	1-9/16	1-3/4	5-1/16	6	10d	7	10d x 1-1/2	685	785	855	740	590	675	735	625	130
1-1/2	LSSH210	LSSU210	18	1-9/16	1-3/4	8-13/16	10	10d	7	10d x 1-1/2	1140	1310	1425	1065	980	1125	1225	895	5, F11, R6
1-3/4	LSSH179	LSSUI25	18	1-13/16	1-5/8	8-13/16	10	10d	7	10d x 1-1/2	1140	1310	1425	1065	980	1125	1225	895	
2 - 2-1/8	LSSH20	LSSUI2.06, LSSU2.1	18	2-1/8	2-1/2	8-13/16	10	10d	7	10d x 1-1/2	1140	1310	1425	980	980	1125	1225	825	
2-1/4 - 2-5/16	LSSH23	LSSUI35	18	2-5/16	2-3/8	8-13/16	10	10d	7	10d x 1-1/2	1140	1310	1425	980	980	1125	1225	825	
2-1/2	LSSH25	LSSUH310	16	2-9/16	2-3/4	8-13/16	18	16d	12	10d x 1-1/2	2485	2600	2600	1195	2140	2185	2185	1005	
2-5/8	LSSH26	---	16	2-11/16	2-5/8	8-13/16	18	16d	12	10d x 1-1/2	2485	2600	2600	1195	2140	2185	2185	1005	
3	LSSH31	LSSU210-2	16	3-1/8	3-3/4	8-13/16	18	16d	12	10d x 1-1/2	2485	2855	3105	1585	2140	2465	2680	1330	
3-1/2	LSSH35	LSSU410	16	3-9/16	3-1/2	8-13/16	18	16d	12	10d x 1-1/2	2485	2855	3105	1585	2140	2465	2680	1330	
<b>SKEWED HANGERS or SLOPED &amp; SKEWED HANGERS</b>																			
1-1/2	LSSH15-TZ	LSU26Z	18	1-9/16	1-3/4	5-1/16	6	10d	7	10d x 1-1/2	685	785	815	740	590	675	685	625	130
1-1/2	LSSH210	LSSU210	18	1-9/16	1-3/4	8-13/16	10	10d	7	10d x 1-1/2	1140	1310	1425	1065	980	1125	1225	895	5, F11, R6
1-3/4	LSSH179	LSSUI25	18	1-13/16	1-5/8	8-13/16	10	10d	7	10d x 1-1/2	1140	1310	1425	1065	980	1125	1225	895	
2 - 2-1/8	LSSH20	LSSUI2.06, LSSU2.1	18	2-1/8	2-1/2	8-13/16	10	10d	7	10d x 1-1/2	1140	1310	1425	980	980	1125	1225	825	
2-1/4 - 2-5/16	LSSH23	LSSUI35	18	2-5/16	2-3/8	8-13/16	10	10d	7	10d x 1-1/2	1140	1310	1425	980	980	1125	1225	825	
2-1/2	LSSH25	LSSUH310	16	2-9/16	2-3/4	8-13/16	14	16d	12	10d x 1-1/2	1825	1825	1825	1195	1530	1530	1530	1005	
2-5/8	LSSH26	---	16	2-11/16	2-5/8	8-13/16	14	16d	12	10d x 1-1/2	1825	1825	1825	1195	1530	1530	1530	1005	
3	LSSH31	LSSU210-2	16	3-1/8	3-3/4	8-13/16	14	16d	12	10d x 1-1/2	1920	1920	1920	1585	1615	1615	1615	1330	
3-1/2	LSSH35	LSSU410	16	3-9/16	3-1/2	8-13/16	14	16d	12	10d x 1-1/2	1920	1920	1920	1585	1615	1615	1615	1330	

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

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

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

New products or updated product information are designated in red.

The GHF series features nail-only installation and heavy load capacity.

**Materials:** See chart

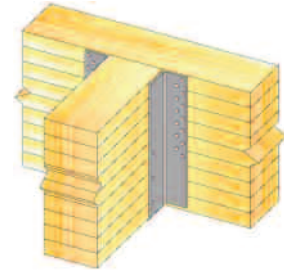
**Finish:** USP primer

**Options:** See Specialty Options Chart.

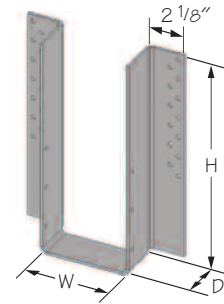
**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- NA25 ring shank nails included with each hanger.

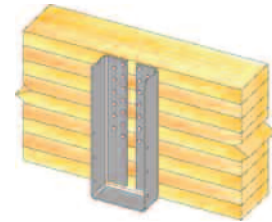
• **Not recommended for use with LVL, PSL, or LSL members.**



Typical GHF51135 installation



GHF



Typical GHF51135IF inverted flange installation

Glulam Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule <sup>2</sup>				Allowable Loads (Lbs.) <sup>1</sup>				Code Ref.
				W	H	D	Header		Joist		DF-L / SP				
							Qty	Type	Qty	Type	Floor	Roof	Uplift <sup>3</sup>		
100%	115%	125%	160%												
3-1/8 x 6	GHF31600	---	12	3-3/16	5-7/8	2-3/8	10	NA25	4	NA25	2190	2520	2740	1400	130
3-1/8 x 7-1/2	GHF31750	---	12	3-3/16	7-3/8	2-3/8	12	NA25	4	NA25	2630	3020	3285	1400	
3-1/8 x 9	GHF31900	---	12	3-3/16	8-7/8	2-3/8	16	NA25	5	NA25	3505	4030	4380	1750	
3-1/8 x 10-1/2	GHF31105	---	12	3-3/16	10-3/8	2-3/8	20	NA25	6	NA25	4380	5035	5475	2100	
3-1/8 x 12	GHF31120	---	12	3-3/16	11-7/8	2-3/8	22	NA25	6	NA25	4820	5540	5800	2100	
3-1/8 x 13-1/2	GHF31135	---	12	3-3/16	13-3/8	2-3/4	24	NA25	6	NA25	5255	5665	5800	2100	
3-1/8 x 15	GHF31150	---	12	3-3/16	14-7/8	2-3/4	26	NA25	7	NA25	5695	6550	6730	2455	
3-1/8 x 16-1/2	GHF31165	---	12	3-3/16	16-3/8	2-3/4	28	NA25	9	NA25	6130	7050	7275	3155	
3-1/8 x 18	GHF31178	---	12	3-3/16	17-3/4	2-3/4	30	NA25	11	NA25	6570	7555	7825	3855	
3-1/4 x 9	GHF32900	---	12	3-5/16	8-7/8	2-3/8	16	NA25	5	NA25	3505	4030	4380	1750	
3-1/4 x 12	GHF32120	---	12	3-5/16	11-7/8	2-3/8	22	NA25	6	NA25	4820	5540	5800	2100	
5-1/8 x 6	GHF51600	---	12	5-3/16	5-7/8	2-3/8	10	NA25	4	NA25	2190	2520	2740	1400	
5-1/8 x 7-1/2	GHF51750	---	12	5-3/16	7-3/8	2-3/8	14	NA25	4	NA25	3065	3525	3835	1400	
5-1/8 x 9	GHF51900	---	12	5-3/16	8-7/8	2-3/8	18	NA25	5	NA25	3940	4535	4930	1750	
5-1/8 x 10-1/2	GHF51105	---	12	5-3/16	10-3/8	2-3/8	22	NA25	6	NA25	4820	5540	6025	2100	
5-1/8 x 12	GHF51120	---	12	5-3/16	11-7/8	2-3/8	24	NA25	6	NA25	5255	6045	6570	2100	
5-1/8 x 13-1/2	GHF51135	---	7	5-3/16	13-3/8	2-3/8	26	NA25	6	NA25	6500	7475	8125	2400	
5-1/8 x 15	GHF51150	---	7	5-3/16	14-7/8	2-3/4	28	NA25	7	NA25	7000	8050	8750	2800	
5-1/8 x 16-1/2	GHF51165	---	7	5-3/16	16-3/8	2-3/4	30	NA25	7	NA25	7500	8625	9375	2800	
5-1/8 x 18	GHF51178	---	7	5-3/16	17-3/4	2-3/4	32	NA25	8	NA25	8000	9200	10000	3200	
5-1/8 x 19-1/2	GHF51192	---	7	5-3/16	19-1/8	2-3/4	34	NA25	8	NA25	8500	9775	10395	3200	
5-1/8 x 21	GHF51205	---	7	5-3/16	20-3/8	2-3/4	36	NA25	9	NA25	9000	10350	10705	3600	
5-1/8 x 22-1/2	GHF51220	---	7	5-3/16	21-7/8	2-3/4	38	NA25	9	NA25	9500	10480	10705	3600	
5-1/8 x 24	GHF51233	---	7	5-3/16	23-1/4	2-3/4	40	NA25	11	NA25	10000	11055	11330	4400	
5-1/4 x 9	GHF52900	---	12	5-5/16	8-7/8	2-3/8	18	NA25	5	NA25	3940	4535	4930	1750	
5-1/4 x 12	GHF52120	---	12	5-5/16	11-7/8	2-3/8	24	NA25	6	NA25	5255	6045	6570	2100	
6-3/4 x 6	GHF67600	---	12	6-7/8	5-7/8	2-3/8	12	NA25	4	NA25	2630	3020	3285	1400	
6-3/4 x 7-1/2	GHF67750	---	12	6-7/8	7-3/8	2-3/8	16	NA25	5	NA25	3505	4030	4380	1750	
6-3/4 x 9	GHF67900	---	12	6-7/8	8-7/8	2-3/8	20	NA25	6	NA25	4380	5035	5475	2100	
6-3/4 x 10-1/2	GHF67105	---	12	6-7/8	10-3/8	2-3/8	24	NA25	8	NA25	5255	6045	6570	2805	
6-3/4 x 12	GHF67120	---	7	6-7/8	11-7/8	2-3/4	28	NA25	8	NA25	7000	8050	8750	3200	
6-3/4 x 13-1/2	GHF67135	---	7	6-7/8	13-3/8	2-3/4	30	NA25	8	NA25	7500	8625	9375	3200	
6-3/4 x 15	GHF67150	---	7	6-7/8	14-7/8	2-3/4	32	NA25	10	NA25	8000	9200	10000	4000	
6-3/4 x 16-1/2	GHF67165	---	7	6-7/8	16-3/8	2-3/4	34	NA25	10	NA25	8500	9775	10625	4000	
6-3/4 x 18	GHF67180	---	7	6-7/8	17-3/4	2-3/4	36	NA25	12	NA25	9000	10350	11250	4800	
6-3/4 x 19-1/2	GHF67195	---	7	6-7/8	19-1/8	3	40	NA25	14	NA25	10000	11500	12500	5600	
6-3/4 x 21	GHF67210	---	7	6-7/8	20-3/8	3	44	NA25	18	NA25	11000	12650	13000	7200	
6-3/4 x 22-1/2	GHF67225	---	7	6-7/8	21-7/8	3	46	NA25	20	NA25	11500	13000	13000	8000	
6-3/4 x 24	GHF67240	---	7	6-7/8	23-1/4	3	48	NA25	22	NA25	12000	13000	13000	8800	

1) Allowable loads based on seat bearing calculated at 560 psi perpendicular to grain.

2) NA25 nails are 3 gauge (0.250" diameter) by 3" long and are included with the hangers. Not for use with LSL, LVL, or PSL.

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

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

Option	Skewed <sup>1,3</sup>	Sloped Seat <sup>2</sup>	Sloped / Skewed <sup>1,2</sup>	Inverted Flange
Range	1" to 50"	1" to 45"	See Sloped Seat and Skewed	Not available in widths less than 4-1/2"
Allowable Loads	100% of table load. 75% of uplift load on skews greater than 15'.	100% of table load	80% of table load on skews greater. 75% of uplift load 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. GHF31900-SK45R	Add SL slope required, and up (U) or down (D), to product number. Ex. GHF31900-SL30D	See Sloped Seat and Skewed. Ex. GHF31900-SK45RSL30D	Add IF to product number. Ex. GHF51135IF

1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.

3) All skewed GHF hangers require joist to be bevel/miter cut.

2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.

Bolt-only fastening, heavy steel construction, and a continuous top flange allow the KLEG, KMEG, and KEG products to have high load capacities.

**KLEG** – (4) bolt light-duty hanger.

**KMEG** – (6) bolt medium-duty hanger.

**KEG** – (8) bolt heavy-duty hanger.

**Materials:** See chart

**Finish:** USP primer

**Options:** See Specialty Options Chart.

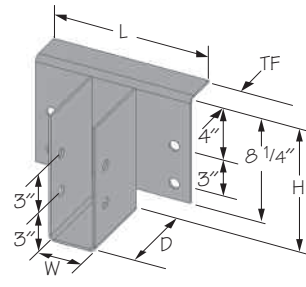
**Codes:** ESR-1280, FL11664,  
L.A. City RR 25749

**Beam height dimension (H) must be specified when ordering.**

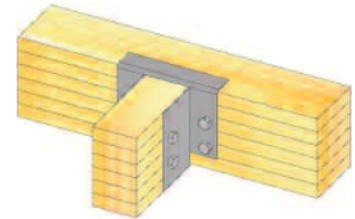
**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- Bolts are not supplied unless ordered separately. Bolts provided by other suppliers must meet or exceed ASTM A 307 Grade A, or ASME SAE Grade 2, or better.
- Minimum header height is 10" for the **KLEG**; 13" for the **KMEG**; 20" for the **KEG**.

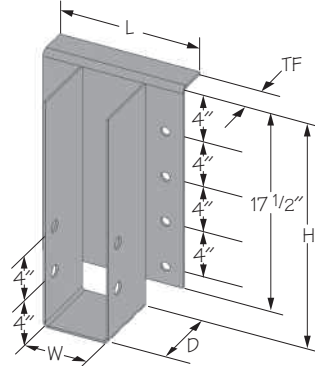
**Bolts must be ordered separately. See page 20 for available sizes.**



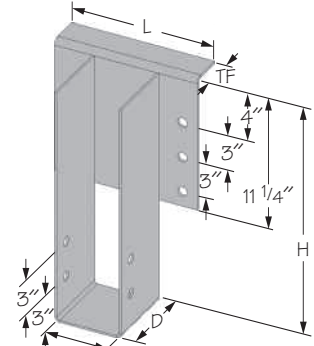
**KLEG3**



**Typical KLEG5 installation**



**KEG5**



**KMEG5**

USP Stock No.	Ref. No	Steel Ga.		Dimensions					Bolt Schedule				Allowable Loads (Lbs.)								Code Ref.	
		Top Flange	U-Strip	W	H <sup>3</sup>	D	TF	L	Header		Joist		F <sub>CL</sub> = 460 psi				F <sub>CL</sub> = 560 psi					Uplift
									Qty	Dia.	Qty	Dia.	With Top Flange <sup>1</sup>		Without Top Flange <sup>1</sup>		With Top Flange <sup>1</sup>		Without Top Flange <sup>1</sup>			
													Floor	Roof	Floor	Roof	Floor	Roof	Floor	Roof		
KLEG3	LEG3	7	7	3-1/4	specify	6	2-1/2	12	4	3/4	2	3/4	10440	11320	3540	4420	11940	12200	3540	4420	3845	
KLEG5	LEG5	7	7	5-1/4	specify	6	2-1/2	12	4	3/4	2	3/4	10440	11320	3540	4420	11940	12200	3540	4420	5620	
KLEG7	LEG7	7	7	6-7/8	specify	6	2-1/2	12	4	3/4	2	3/4	10440	11320	3540	4420	11940	12200	3540	4420	5635	
KMEG5	MEG5	7	7	5-1/4	specify	6	2-1/2	12	6	3/4	2	3/4	12185	12635	5285	6610	12635	12635	5285	6610	5620	
KMEG7	MEG7	7	7	6-7/8	specify	6	2-1/2	12	6	3/4	2	3/4	12185	12635	5285	6610	12635	12635	5285	6610	5635	
KEG5	EG5	3	7	5-1/4	specify	6	2-1/2	12	8	1	2	1	16115	18420	9215	11520	17615	19920	9215	11520	7305	
KEG7	EG7	3	7	6-7/8	specify	6	2-1/2	13-1/2	8	1	2	1	17010	19320	9245	11555	18695	21005	9245	11555	9215	
KEG9	EG9	3	7	8-7/8	specify	6	2-1/2	15-1/2	8	1	2	1	18185	20505	9275	11595	20125	21220	9275	11595	9240	
KEG11	---	3	7	10-7/8	specify	6	2-1/2	17-1/2	8	1	2	1	19360	21680	9295	11620	21545	23870	9295	11620	9260	

1) Allowable loads are for a supporting member with a width of 5-1/2", and 460 or 560 psi perpendicular to grain loading in single shear.  
 2) Uplift loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.  
 3) "Specify" denotes the required supported beam height that must be specified at the time of ordering.  
 New products or updated product information are designated in red.

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

Option	Skewed <sup>3</sup>	Sloped Seat	Top Flange Offset <sup>2</sup>
Range	1' to 45'	1' to 45'	---
Allowable Loads	KLEG - 10000 lbs. Max. KMEG - 10000 lbs. Max. KEG - 14250 lbs. Max.	KLEG - 9665 lbs. Max. KMEG - 9665 lbs. Max. KEG - 9665 lbs. Max.	KLEG - 5665 lbs. Max. KLEG - 9' min. height.  KMEG - 5665 lbs. Max. KMEG - 11' min. height.
Ordering	Add SK, angle required, and right (R) or left (L), to product number. Ex. KLEG3H112-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Ex. KLEG3H112-SL30D	Add OS, and right (R) or left (L), to product number. Ex. KLEG3H112-OSL

1) Top flange offset hangers may not be skewed.  
 2) Top flange offset option is not available for KEG models.  
 3) Carried member must have square cut end on skewed option. Refer to Typical PH hanger, skewed, left shown, Type B illustration on page 203.

These hangers cover medium-to-heavy glulam beam and purlin applications.

**KHHB** – Medium-duty hanger.

**KGB** – Medium to heavy-duty hanger.

**KHGB** – Heavy-duty hanger.

**Materials:** 7 gauge

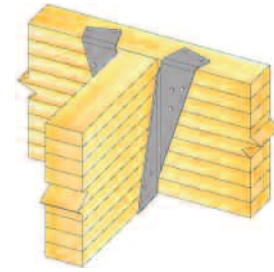
**Finish:** USP primer

**Codes:** ESR-1280, FL11664, L.A. City RR 25749

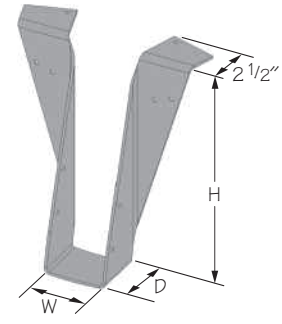
**Beam height dimension (H) must be specified when ordering.**

**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- NA25 nails are included with the hangers.
- Minimum height (H) is 7 1/2".
- **Not recommended for use with LVL, PSL, or LSL members.**



Typical **KHHB** installation



**KHHB**

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**See Welded Installation chart on page 209**

Beam Width	USP Stock No.	Ref. No.	Dimensions <sup>3</sup>			Fastener Schedule <sup>5</sup>						Allowable Loads (Lbs.) <sup>1</sup>						Code Ref.	
			W	H	D	Header <sup>4</sup>			Joist			F <sub>CL</sub> = 560 psi			F <sub>CL</sub> = 625 psi				Uplift <sup>2</sup>
						Top	Face	Type	Qty	Type	100%	115%	125%	100%	115%	125%			
						Qty	Qty										Qty		
3-1/8	KHHB3	HHB3	3-1/4	specify	3	4	6	NA25	6	NA25	4885	5115	5265	5275	5505	5655	2440	2, F20, R12	
	KGB3	GB3	3-1/4	specify	3-1/2	4	10	NA25	6	NA25	6460	6840	7095	6915	7295	7550	2440	130	
5-1/8	KHHB5	HHB5	5-1/4	specify	3	4	6	NA25	6	NA25	4885	5115	5265	5275	5505	5655	2440	2, F20, R12	
	KGB5	GB5	5-1/4	specify	3-1/2	4	10	NA25	6	NA25	6460	6840	7095	6915	7295	7550	2440	130	
6-3/4	KHHB7	HHB7	6-7/8	specify	3	4	6	NA25	6	NA25	4885	5115	5265	5275	5505	5655	2440	2, F20, R12	
	KGB7	GB7	6-7/8	specify	3-1/2	4	10	NA25	6	NA25	6460	6840	7095	6915	7295	7550	2440	130	
	KHGB7	HGB7	6-7/8	specify	4	4	12	NA25	6	NA25	7530	7985	8290	8050	8505	8810	2440	130	

1) Load values based on 560 psi perpendicular to grain loading.  
 2) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.  
 3) "Specify" denotes the required supported beam height must be specified at the time of ordering.  
 4) Supporting header shall be no less than 3" thick.  
 5) NA25 nails are 3 gauge (0.250" diameter) by 3" long and are included with hangers.  
 New products or updated product information are designated in red.



These heavy beam hangers are designed for use with glulam and timber beams. The continuous top mount flange offers high load capacity with minimal nailing. NA25 ring-shanked nails also increase load capacity by helping prevent fastener withdrawal.

**KGLT** – Medium-duty hanger.

**KHGLT** – Heavy-duty hanger.

**Materials:** See chart

**Finish:** USP primer

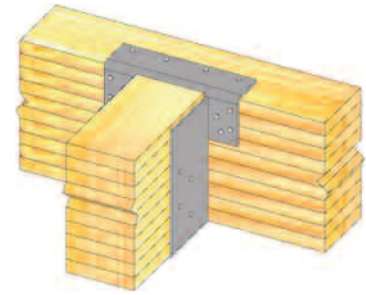
**Options:** See Specialty Options Chart.

**Codes:** ESR-1280, L.A. City RR 25749, FL11664

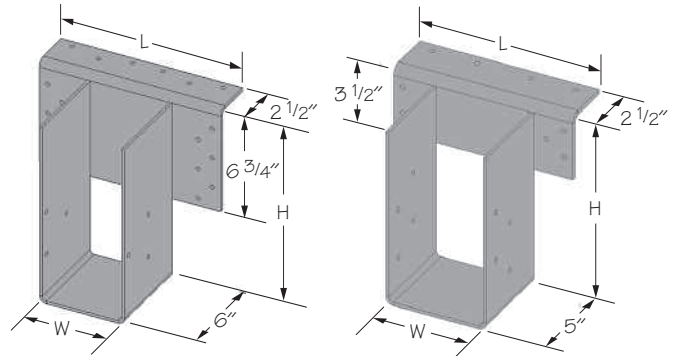
**Beam height dimension (H) must be specified when ordering.**

**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- NA25 nails are included with the hangers.
- **Not recommended for use with LVL, PSL, or LSL members.**



Typical KGLT5 installation



**KHGLT**

**KGLT**

See Welded Installation chart on page 205

Beam Width	USP Stock No.	Ref. No.	Steel Gauge		Dimensions <sup>4</sup>			Fastener Schedule <sup>5</sup>					Allowable Loads (Lbs.) <sup>2</sup>					Code Ref.		
			Top Flange	U-Strap	W	H	L	Header		Joist			F <sub>CL</sub> = 460 psi			F <sub>CL</sub> = 625 psi			Uplift	
								Top	Face	Type	Qty	Type	Floor	Roof	125%	Floor	Roof			125%
								Qty	Qty				100% <sup>3</sup>	115%	125%	100% <sup>3</sup>	115%			125%
3-1/8	KGLT3	GLT3	3	7	3-1/4	specify	10	4	6	NA25	8	NA25	7545	7815	7995	---	---	---	2870	2, F20, R12
3-1/2	KGLT4	GLT4	3	7	3-5/8	specify	10	4	6	NA25	8	NA25	7545	7815	7995	---	---	---	2870	
5-1/8	KGLT5	GLT5	3	7	5-1/4	specify	10	4	6	NA25	8	NA25	7545	7815	7995	---	---	---	2870	
5-1/2	KGLT6	GLT6	3	7	5-5/8	specify	10	4	6	NA25	8	NA25	7545	7815	7995	---	---	---	2870	
6-3/4	KGLT7	GLT7	3	7	6-7/8	specify	10	4	6	NA25	8	NA25	7545	7815	7995	---	---	---	2870	
8-3/4	KGLT9	---	3	7	8-7/8	specify	10	4	6	NA25	8	NA25	7545	7815	7995	---	---	---	2870	
3-1/8	KHGLT3	HGLT3	3	7	3-1/4	specify	12	6	12	NA25	6	NA25	10150	10380	10530	12965	13400	13400	2440	
3-1/2	KHGLT4	HGLT4	3	7	3-5/8	specify	12	6	12	NA25	6	NA25	10490	11025	11385	12965	13400	13400	2440	
5-1/8	KHGLT5	HGLT5	3	7	5-1/4	specify	12	6	12	NA25	6	NA25	10490	11025	11385	12965	13400	13400	2440	
5-1/2	KHGLT6	HGLT5	3	7	5-5/8	specify	12	6	12	NA25	6	NA25	10490	11025	11385	12965	13400	13400	2440	
6-3/4	KHGLT7	HGLT7	3	7	6-7/8	specify	12	6	12	NA25	6	NA25	10490	11025	11385	12965	13400	13400	2440	
8-3/4	KHGLT9	HGLT9	3	7	8-7/8	specify	14	6	12	NA25	6	NA25	11640	12175	12535	13400	13400	13400	2440	
10-3/4	KHGLT11	---	3	7	10-7/8	specify	16	6	12	NA25	6	NA25	12790	13325	13400	13400	13400	13400	2440	

- 1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
  - 2) KGLT load values based on 460 psi perpendicular to grain loading. KHGLT load values based on 460 psi or 625 psi perpendicular to grain loading.
  - 3) No further increase for duration of load allowed.
  - 4) "Specify" denotes the required supported beam height that must be specified at time of ordering, with 12" being the minimum.
  - 5) NA25 nails are 3 gauge (0.250" diameter) by 3" long and are included with hangers.
- New products or updated product information are designated in red.

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

Option	Skewed <sup>1,3</sup>	Sloped Seat <sup>2,3</sup>	Sloped / Skewed <sup>1,2,3</sup>	Sloped Top Flange <sup>4</sup>	Top Flange Offset	Saddle
Range	1° to 50°	1° to 45°	See Sloped Seat and Skewed	0° to 45°	---	---
Allowable Loads	50% of uplift load on skew greater than 15°	KGLT - 4110 lbs. Max. KHGLT - 7000 lbs. Max.	50% of uplift load on skew greater than 15°	Table Loads using Reduce Allowable straight-line interpolation	60% of table load for KGLT. 45% of table load for KHGLT.	100% of table load per side
Ordering	Add SK, angle required, and right (R) or left (L), to product number. Ex. KGLT3H16-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Ex. KGLT3H16-SL30D	See Sloped Seat and Skewed. Ex. KGLT3H16-SK45RSL30D	Add SF, angle required and right (R) or left (L), to product number. Ex. KGLT3H16-SF30L	Add OS, and right (R) or left (L), to product number. Ex. KGLT3H16-OSL	Add SA, and saddle width required to product number. Ex. KGLT3H16-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.
- 4) Sloped top flanges with slopes greater than 15° may have additional header nails.

**KHC** – Supports a glulam beam off of another glulam beam. Refer to the Optional Horizontal Loading Chart for design variations.

**KHCST** – Seismic straps can be installed during construction or added as a retrofit item.

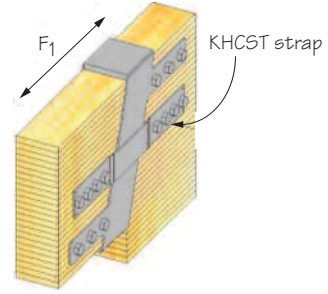
**Materials:** See chart

**Finish:** USP primer

**Codes:** ESR-1280, L.A. City RR 25749, FL11664

**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- To allow for wood shrinkage, position bolts in slots away from the bearing seat.
- For dapped beams, reduce the “H” dimension by the “PT” dimension for each dap.

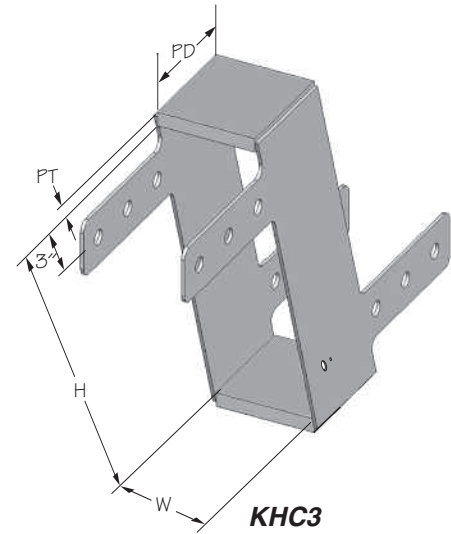


**Typical KHC installation**

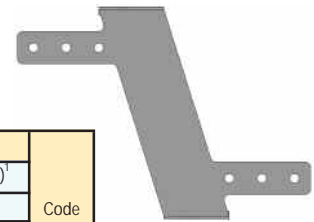
**KHC Optional Horizontal Loading Chart**

USP Stock No. Prefix	Ref. No.	Min. H <sup>3</sup>	Rotation Bolts <sup>2</sup> / Beam		Seismic Bolts <sup>2</sup>		Allowable Loads (Lbs.) <sup>1</sup>	
			Qty	Dia.	Qty	Dia.	DF-L / SP	
							F1	
* KHC	HCA	8	2	3/4	---	---	---	
* KHC2T	---	9	2	3/4	2	3/4	---	
KHC2CT	HC2CTA	12	2	3/4	2	3/4	9445	
KHCCT	HCCTA	12	2	3/4	3	3/4	14170	
KHC4CT	HC4CTA	12	2	3/4	4	3/4	18895	
* KHC3	HC3A	8	3	3/4	---	---	---	
* KHC3T	---	9	3	3/4	3	3/4	---	
KHC2C3T	---	12	3	3/4	2	3/4	9445	
KHCC3T	HCC3TA	12	3	3/4	3	3/4	14170	
KHC4C3T	HC4C3TA	12	3	3/4	4	3/4	18895	

- 1) Loads are based on a 5-1/8" width Douglas-Fir Larch beam.
  - 2) All bolts are 3/4", and shall meet or exceed the specifications of ASTM A 307.
  - 3) Minimum H may be less than H required for listed loads; in which case, load reductions are required.
- \* When used with optional KHCST Seismic Strap, the minimum H is 12".



**KHC3**



**KHC3 side view**

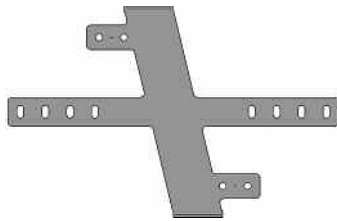


**KHC3 top view**

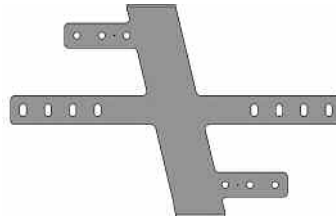
Beam Width	USP Stock No. Suffix	Ref. No.	Steel Gauge	Dimensions			(2) Rotation Bolts <sup>3</sup> Per Beam				(3) Rotation Bolts <sup>3</sup> Per Beam				Code Ref.
				W	PD	PT	H <sup>2</sup>	Allowable Loads (Lbs.) <sup>1</sup>		H <sup>2</sup>	Allowable Loads (Lbs.) <sup>1</sup>				
								DF-L / SP			DF-L / SP				
5-1/8	55	HCA5-5	7	5-1/4	5	3/4	17-1/2	10505	14350	14	10505	14350	2, F20, R12		
	56	HCA5-6	7	5-1/4	6	3/4	22-3/4	12610	17220	17-1/2	12610	17220			
	57	HCA5-7	7	5-1/4	7	3/4	28-3/4	14710	20090	21-3/4	14710	20090			
	59	HCA5-9	7	5-1/4	9	3/4	43-1/2	18910	25830	32	18910	25830			
6-3/4	75	HCA7-5	7	6-7/8	5	1	20-3/4	13840	18900	16	13840	18900			
	76	HCA7-6	7	6-7/8	6	1	27-1/2	16605	22680	20-3/4	16605	22680			
	77	HCA7-7	7	6-7/8	7	1	35-1/2	19375	26460	26-1/4	19375	26460			
	79	HCA7-9	7	6-7/8	9	1	55	24910	34020	40	24910	34020			
8-3/4	95	HCA9-5	7	8-7/8	5	1-1/4	24-3/4	17940	24500	18-3/4	17940	24500			
	96	HCA9-6	7	8-7/8	6	1-1/4	33-1/2	21525	29400	24-3/4	21525	29400			
	97	HCA9-7	7	8-7/8	7	1-1/4	43-3/4	25115	34300	32	25115	34300			
	99	HCA9-9	7	8-7/8	9	1-1/4	69-1/4	32290	44100	49-3/4	32290	44100			
10-3/4	115	HCA11-5	3	10-7/8	5	1-1/2	27-1/4	22040	30100	20-1/4	22040	30100			
	116	HCA11-6	3	10-7/8	6	1-1/2	37-1/4	26445	36120	27	26445	36120			
	117	HCA11-7	3	10-7/8	7	1-1/2	49-1/4	30855	42140	35-1/4	30855	42140			
	119	HCA11-9	3	10-7/8	9	1-1/2	78-1/4	39670	54180	55-1/4	39670	54180			

- 1) Allowable loads shall not be further increased for duration.
  - 2) The minimum height is for loads shown. For heights less than the minimum shown reduce the allowable loads in direct proportion.
  - 3) All bolts are 3/4", and shall meet or exceed the specifications of ASTM A 307.
- New products or updated product information are designated in red.

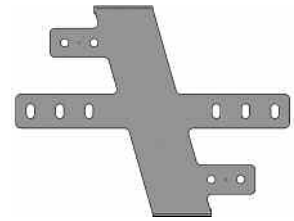
continued on next page



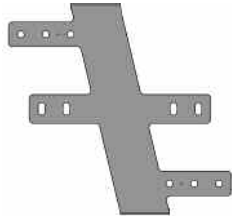
**KHC4CT**



**KHC4C3T**



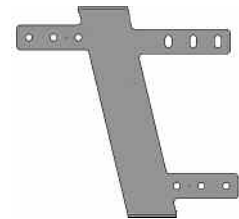
**KHCCT**



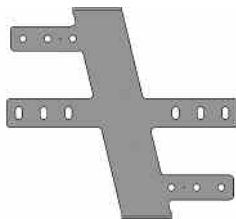
**KHC2C3T**



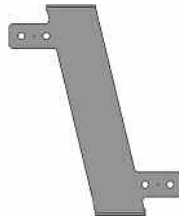
**KHC2T**



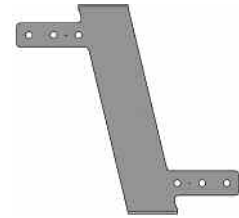
**KHC3T**



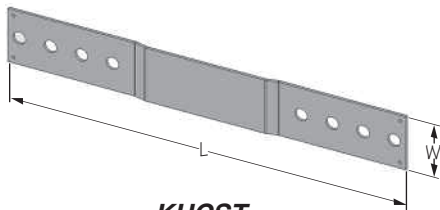
**KHCC3T**



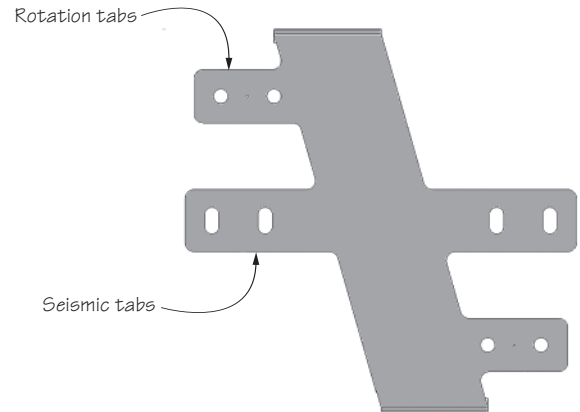
**KHC**



**KHC3**



**KHCST**



**KHC2CT**

**Seismic Straps - KHCST series**

USP Stock No. <sup>3</sup>	Ref. No.	Steel Gauge	Dimensions		Bolt Schedule		Allowable Loads (Lbs.) <sup>1,2</sup>	Code Ref.
			W	L	Qty	Dia.	DF-L / SP	
							F1 (160%)	
KHCST2	HCST2	7	3-1/2	25-5/8	4	3/4	9950	2, F20, R12
KHCSTR2	HCSTR2			31-5/8			14500	
KHCST3	HCST3	7	3-1/2	37-5/8	8	3/4	20145	
KHCSTR3	HCSTR3							
KHCST4	HCST4	3	3-1/2					
KHCSTR4	HCSTR4							

1) Allowable loads are for straps used in pairs, and are increased 60% for wind or seismic loads; no further increase shall be permitted.  
 2) Loads are based on a 5-1/8" width Douglas-Fir-Larch beam.  
 3) Seismic straps shall be used with the KHC hinge connectors.  
 New products or updated product information are designated in red.

**★ Bolts must be ordered separately. See page 20 for available sizes.**

- KGLS** – Saddle hanger.
- KGLST** – Saddle hanger with seismic straps.
- KHGLS** – Heavier version of KGLS.
- KHGLST** – Heavier version of KGLST.

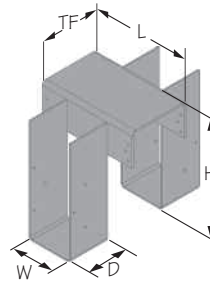
**Materials:** Top flange - 3 gauge; Stirrup - 7 gauge  
**Finish:** USP primer  
**Options:** See KGLS & KHGLS Specialty Options Chart.  
**Codes:** ESR-1280, L.A. City RR 25749, FL11664

**Beam height dimension (H) must be specified when ordering.**

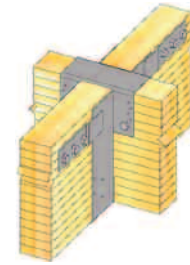
**Installation:**

- Use all specified fasteners. See Product Notes, page 10.
- NA25 nails are included.
- Loads and nail schedule apply to each saddle hanger stirrup.
- **Minimum header height is 8 1/2" for the KGLS; 9" for the KGLST; 10 1/2" for the KHGLS, and 12" for the KHGLST.**
- **KGLST and KHGLST models include seismic straps which must be installed with (3) 3/4" thru-bolts in each supported member and (2) 3/4" thru-bolts into the supporting beams.**
- **Not recommended for use with LVL, PSL, or LSL members.**

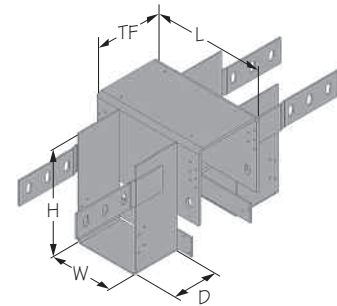
**See Welded Installation chart on page 205**



**KGLS**



**Typical KHGLST35 installation**



**KHGLST**

Supported Glulam Beam Size	USP Stock No.	Ref. No.	Dimensions <sup>4</sup>					Fastener Schedule								Allowable Loads (Lbs.) <sup>1,2</sup>						Code Ref.	
			W	H <sup>5</sup>	D	L	TF	Header		Joist		F <sub>CL</sub> = 460 psi			F <sub>CL</sub> = 560 psi			Uplift	Tension				
								Nails <sup>1,3</sup>	Bolts	Nails <sup>1,3</sup>	Bolts	Floor	Roof	Floor	Roof	160%	160%						
3-1/8	KGLS35	GLS3-5	3-1/4	specify	5	6	5-1/4	6	NA25	---	---	6	NA25	---	---	8710	8940	9095	10275	10505	10655	2440	---
	KGLST35	GLST3-5	3-1/4	specify	6-1/2	10	5-1/4	6	NA25	2	3/4	6	NA25	3	3/4	10870	11095	11250	12900	13130	13280	2440	15120
	KGLS37	GLS3-7	3-1/4	specify	5	6	6-7/8	6	NA25	---	---	6	NA25	---	---	8710	8940	9095	10275	10505	10655	2440	---
	KGLST37	GLST3-7	3-1/4	specify	6-1/2	10	6-7/8	6	NA25	2	3/4	6	NA25	3	3/4	10870	11095	11250	12900	13130	13280	2440	15120
	KGLS39	GLS3-9	3-1/4	specify	5	6	8-7/8	6	NA25	---	---	6	NA25	---	---	8710	8940	9095	10275	10505	10655	2440	---
5-1/8	KGLST39	GLST3-9	3-1/4	specify	6-1/2	10	8-7/8	6	NA25	2	3/4	6	NA25	3	3/4	10870	11095	11250	12900	13130	13280	2440	15120
	KGLS55	GLS5-5	5-1/4	specify	5	9	5-1/4	6	NA25	---	---	6	NA25	---	---	12405	12670	12850	14710	14980	15160	2440	---
	KGLST55	GLST5-5	5-1/4	specify	6-1/2	12	5-1/4	6	NA25	2	3/4	6	NA25	3	3/4	15940	16210	16390	19015	19285	19465	2440	15120
	KGLS57	GLS5-7	5-1/4	specify	5	9	6-7/8	6	NA25	---	---	6	NA25	---	---	13310	13540	13695	15875	16105	16255	2440	---
	KGLST57	GLST5-7	5-1/4	specify	6-1/2	12	6-7/8	6	NA25	2	3/4	6	NA25	3	3/4	16850	17075	17230	20180	20410	20560	2440	15120
6-3/4	KHGLS5	HGLS5	5-1/4	specify	6-1/2	12	specify	14	NA25	---	---	8	NA25	---	---	17355	17660	17865	20685	20990	21195	3250	---
	KHGLST5	HGLST5	5-1/4	specify	6	12	specify	14	NA25	2	3/4	8	NA25	3	3/4	16175	16480	16685	19250	19555	19760	3250	15120
	KGLS77	GLS7-7	6-7/8	specify	5	12	6-7/8	6	NA25	---	---	6	NA25	---	---	17050	17280	17430	20425	20655	20805	2440	---
	KGLST77	GLST7-7	6-7/8	specify	6-1/2	12	6-7/8	6	NA25	2	3/4	6	NA25	3	3/4	20425	20695	20875	24475	24745	24925	2440	15120
	KGLS79	GLS7-9	6-7/8	specify	5	12	8-7/8	6	NA25	---	---	6	NA25	---	---	17050	17280	17430	20425	20655	20805	2440	---
8-3/4	KGLST79	GLST7-9	6-7/8	specify	6-1/2	12	8-7/8	6	NA25	2	3/4	6	NA25	3	3/4	21705	21935	22090	26095	26325	26475	2440	15120
	KHGLS7	HGLS7	6-7/8	specify	6	12	specify	14	NA25	---	---	8	NA25	---	---	17985	18615	19035	20985	21615	22035	3250	---
	KHGLST7	HGLST7	6-7/8	specify	6-1/2	14	specify	14	NA25	2	3/4	8	NA25	3	3/4	20285	20915	21335	23785	24415	24835	3250	15120
	KHGLS9	HGLS9	8-7/8	specify	6	12	specify	14	NA25	---	---	8	NA25	---	---	17985	18615	19035	20985	21615	22035	3250	---
	KHGLST9	HGLST9	8-7/8	specify	6-1/2	16	specify	14	NA25	2	3/4	8	NA25	3	3/4	22585	23215	23625	26585	27215	27635	3250	15120

1) Allowable loads and fastener schedules apply to each side of the saddled hanger.  
 2) The bearing loads are based on 460 psi.  
 3) NA25 nails are 3 gauge (0.250" diameter) by 3" long and are included with hangers.  
 4) Minimum header height is 8-1/2" for the KGLS; 9" for the KGLST; 10-1/2" for the KHGLS; and 12" for the KHGLST.  
 5) Hangers with seismic straps may require a minimum joist depth.  
 Consult USP for additional information.

**KGLS & KHGLS Specialty Options Chart – refer to Specialty Options pages 201, 203 to 204 for additional details.**

Option	Skewed <sup>1</sup>	Sloped Seat <sup>2</sup>	Sloped / Skewed <sup>1,2</sup>	Sloped Top Flange <sup>3</sup>	Top Flange Offset	Saddle
Range	1° to 50°	1° to 45°	See Sloped Seat and Skewed	0° to 30°	May not be skewed	5" minimum saddle
Allowable Loads	KGLS - 6500 lbs. Max. KHGLS - 7980 lbs. Max. 50% of uplift load on skews greater than 15°.	KGLS - 6500 lbs. Max. KHGLS - 9165 lbs. Max.	KGLS - 5500 lbs. Max. KHGLS - may not be sloped / skewed.	Reduce allowable table loads using straight-line interpolation.	50% of table load for KGLS. 45% of table load for KHGLS.	100% of table load per side
Ordering	Add SK, angle required, and right (R) or left (L), to product number. Ex. KGLS35H115-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Ex. KGLS35H115-SL30D	See Sloped Seat and Skewed. Ex. KGLS35H115-SK45RSL30D	Add SF, angle required, and right (R) or left (L), to product number. Ex. KGLS35H115-SF30L	Add OS, and right (R) or left (L), to product number. Ex. KGLS35H115-OSL	Add SA, and saddle width required to product number. Ex. KGLS35H115-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) Sloped top flanges with greater than 15° may have additional header nails.