Purlin Top-Flange Hangers

The WP, HWP and HWPH series purlin hangers offer the greatest design flexibility and versatility.

The HWP and HWPH high-wind purlin hangers have enhanced uplift. They are ideal for high-wind applications.

Material: (Top flange / stirrup): WP - 7/12 gauge; HWP - 7/12 gauge; HWPH - 3/7 gauge Finish: Simpson Strong-Tie grav paint: hot-dip galvanized

available: specify HDG, contact Simpson Strong-Tie

Installation:

Solid Sawn Joist Hangers

- Use all specified fasteners.
- H dimensions are sized to account for normal joist shrinkage. W dimensions are for dressed timber widths.
- WP/HWP/HWPH hangers may be welded to steel headers with a minimum 11/2"-long fillet weld on each side of the top flange to the header. Weld sizes: $WP = \frac{3}{16}$ ", $HWP = \frac{3}{16}$ ", $HWPH = \frac{1}{4}$ " (see p. 20, note k for weld information). Weld-on applications achieve maximum allowable download. Uplift loads do not apply to this application. For uplift loads, refer to technical bulletin T-C-WELDUPLFT at strongtie.com.
- Hangers can support multi-ply carried members; the individual members must be secured together to work as a single unit before installation into the hanger.
- If joist is shorter than hanger by more than 1/2", then use only 50% of the table loads.

Options:

- See Hanger Options General Notes on p. 101.
- Refer to technical bulletin T-C-SLOPEJST at strongtie.com for information regarding load reductions on selected hangers which can be used without modification to support joists which have shallow slopes (\leq 3/4:12).
- Some model configurations may differ from those shown. Contact Simpson Strong-Tie for details. For special order WP hangers, see technical bulletin T-C-WP-WS at strongtie.com.
- WP models are available in Type A (bevel-cut) or Type B (square-cut) style. Contact Simpson Strong-Tie when ordering.
- HWP may have a sloped and/or skewed seat up to 45°. WP and HWPH may be sloped up to 45° and/or skewed up to 84°.
- Hangers with a skew greater than 15° may have all the joist nails on the outside angle.
- For skewed condition, top flange width can increase up to 18". Contact Simpson Strong-Tie for specific application.
- Specify the slope up or down in degrees from the horizontal plane and/or the skew right or left in degrees from the perpendicular vertical plane. Specify whether low side, high side or center of joist will be flush with the top of the header (see illustration).

Ridge Hanger (only available for WP)

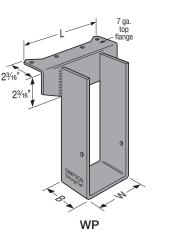
• Top flange may be sloped to a maximum of 35° to accommodate a ridge (see illustration). Specify angle of the slope. Reduce allowable load using straight-line interpolation. See Open/Closed example. Specify H/L/C flush when ordering sloped top flange.

Saddle Hanger (WPD)

- WPD saddle hanger allowable loads are WP loads for each stirrup. Saddle hangers on stud walls do not achieve catalog loads.
- Recommended S dimension is 1/16" oversized for carrying members 21/2" wide and less or 1/8" oversized for greater than 21/2" wide.

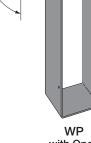
Codes: See p. 13 for Code Reference Key Chart Web Applications: Visit app.strongtie.com/hs to access our Hanger Selector web application.





21/2

HWP



Top flange open 20

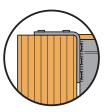
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SIMPSON

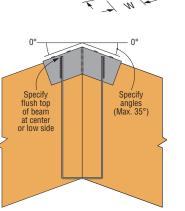
Strong-Tie



Eased Edge Flatten edge of header to match top flange radius.

WMU Mid-Wall Installation See pp. 250-251 for

models and information



B

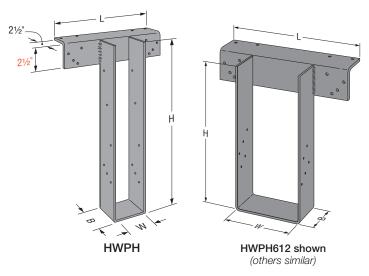
WP Ridge Installation

H1 Typical WPD Saddle Hanger H2 Installation 4

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Purlin Top-Flange Hangers (cont.)

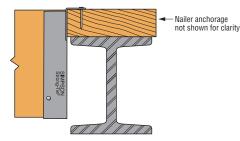
Model	Stirrup Width (W) (in.)	Stirrup Seat Depth (B) (in.)	Top Flange Length (L) (in.)
	1 %16 - 2 1/16	See load table	7
WP	21⁄8-35⁄8	21⁄2	7
VVP	311/16 - 71/8	21⁄2	8
	73/16 - 71/2	21⁄2	10
	1 %16	5	10
	1 ¹³ ⁄16	4	10
HWP	23⁄8 - 53⁄8	3	10
	5 ¹¹ /16 - 7 ¹ /8	3	12
	1 ¹³ ⁄16 — 2 ½	See load table	10
	2%16-23/4	4	10
HWPH	31⁄4 - 39⁄16	31⁄4	10
	3 ¹³ ⁄16 - 6 ³ ⁄4	31⁄4	12
	6 ¹³ / ₁₆ — 7 ¹ / ₂	31⁄4	14



Nailer Table

The table indicates the maximum allowable loads for WP, HWP and HWPH hangers used on wood nailers. Nailers are wood members attached to the top of a steel beam, concrete or masonry wall.

Model	Nailer	Fasten	ers (in.)	Uplift ¹	Allowable Down Loads					
Wouer	Nallel	Header	Joist	(160)	DF/SP	SPF/HF	LSL			
	2x	(4) 0.148 x 1 ½	(2) 0.148 x 1 ½	_	2,465	1,985	3,150			
WP	(2) 2x	(4) 0.148 x 2½	(2) 0.148 x 1 ½	_	2,985	2,230	—			
	3x or 4x	(4) 0.162 x 2½	(2) 0.148 x 1 ½	_	2,985	2,230	3,375			
	(2) 2x	<mark>(9)</mark> 0.148 x 3	(10) 0.148 x 1 ½	710	4,415	3,860	4,415			
HWP	Зx	<mark>(9)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	970	4,415	3,860	—			
	4x	<mark>(9)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	1,535	4,920	3,860	4,920			
	(2) 2x	<mark>(12)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	710	5,910	4,820	5,910			
HWPH	Зx	<mark>(12)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	970	5,970	5,125	_			
	4x	<mark>(12)</mark> 0.162 x 3½	(10) 0.148 x 1 ½	1,550	5,970	5,125	5,970			



Installation on Wood Nailer

1. Attachment of nailer to supporting member is the responsibility of the designer.

2. Uplift loads are based on DF/SP lumber. For SPF/HF, use 0.86 x DF/SP uplift load.

3. Fasteners: Nail dimensions are listed diameter by length. See pp. 23-24 for fastener information.

Various Header Applications

	Joist	t (in.)		Fasteners (in.)					Allowable Loads Header Type							
Model	Width	Height	Тор	Face	Joist	Uplift (160)	LVL	PSL	LSL	DF/SP	SPF/HF	I-Joist	Code Ref.			
	1 ½ to 7 ½	5% to 30	(4) 0.148 x 1 ½	—	(2) 0.148 x 1½	—	2,935	3,150	_	2,465	1,985	2,030	_			
WP	2½ to 7½	5% to 30	(4) 0.148 x 21⁄2	_	(2) 0.148 x 1 ½	_	2,935	3,150	3,150	2,985	2,230	_				
	3½ to 7½	5% to 30	(4) 0.162 x 2½	_	(2) 0.148 x 1½	_	3,095	3,605	3,605	2,985	2,230	—				
	1 ½ to 7	6 to 15%	(3) 0.162 x 3½	(6) 0.162 x 3½	(10) 0.148 x 1 ½	1,535	3,995	4,500	4,350	3,955	3,955	_	IBC®,			
HWP	1 ½ to 7	15¾ to 28	(3) 0.162 x 3½	(6) 0.162 x 3½	(12) 0.148 x 1 ½	1,570	3,995	4,500	4,350	3,955	3,955	_	FL, LÁ			
	1 ¹³ / ₁₆ to 7 ½	6 to 15%	(4) 0.162 x 3½	(8) 0.162 x 3½	(10) 0.148 x 1 ½	1,685	6,595	7,025	5,450	5,920	4,740	—				
HWPH	1 ¹³ / ₁₆ to 7 ½	15¾ to 32	(4) 0.162 x 3½	(8) 0.162 x 3½	(12) 0.148 x 1 ½	2,075	6,595	7,025	5,450	5,920	4,740	_				

1. Code values are based on DF/SP header species.

2. Uplift loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.

3. For hanger heights exceeding the joist height, the allowable load is 0.50 of the table load.

4. Fasteners: Nail dimensions are listed diameter by length. See pp. 23-24 for fastener information.



Purlin Top-Flange Hangers (cont.)

Modifications and Associated Load Reductions for WP/HWP/HWPH

				Seat					Top Flan	ge		1	Fop Flang	e and Seat	t	Joist Height		
Models	Slo	eat ped Max.	Seat Skewed Type A	Ske	at wed e B	and S Typ	Sloped kewed be A •45°	Top Flange Sloped 35° Max,		Top Flange Offset				Seat and Skewed Seat		red Seat and Skewed Seat evel Cut Type B, Plumb Cut Joist Shorte		
	Slope Up	Slope Down	1°− 45°	1°− 45°	46°- 84°	Up	Down		30° Max.	Narrow	Wide	Narrow	Wide	Narrow	Wide	-		
WP		1.0		1.	.0		1.0			0.	0.5		0.5		0.3			
HWP	1.0	0.8	1.0	N	/A	1.0	0.8	(90–a)/90	(90–a)/90	0.5		0.5	0.5		/A	By more than ½": 0.50 By ½" or less: 1.00		
HWPH		0.0		0.8	0.7		0.0			0.5	0.6	0.5	0.5 0.6	0.	.5			

1. For straight-line interpolation, "a" is the specified angle.

2. Reduction factors are not cumulative. Use the lowest factors that apply.

3. Narrow $\leq 3\frac{1}{2}$ ", Wide $> 3\frac{1}{2}$ ".

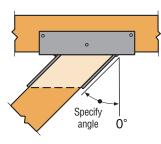
Solid Sawn Joist Hangers

4. HWP and HWPH options receive catalog uplift loads except: top flange offset 30% of the table load, skewed type A is 75% of the table load and HWPH only skewed type B is 50% of the table load.

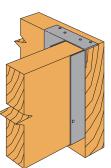
5. Top flange bent closed is not available for HWP or HWPH.

Reduction Factor Instructions

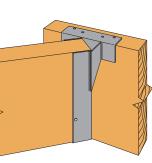
Allowable Download = (lowest of Seat, Top Flange, or Joist Height) × (Table Load). See pp. 136–140 for table loads. Allowable Uplift = as noted in table per height, see table above.



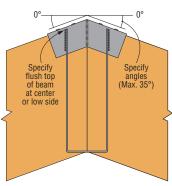
Typical HWP Top View Skewed Left Type A Hanger (bevel-cut joist shown)



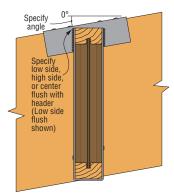
Typical WP Top Flange Offset Left



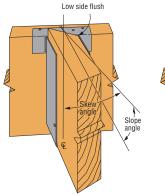
Typical WP Skewed Left Type B Hanger (square-cut joist shown)

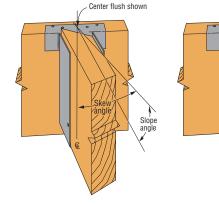


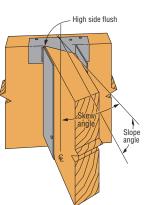
Typical WP Ridge Installation



Typical WP Top Flange Sloped Down Left with Low Side Flush







High-Capacity Top-Flange Hangers

The WP, HWP and HWPH series are designed to support joists on wood purlins or beams.

The HWP and HWPH high-wind purlin hangers have enhanced uplift and are ideal for high-wind applications.

Material: (Top flange/stirrup): WP - 7/12 gauge; HWP - 7/12 gauge; HWPH - 3/7 gauge

Finish: Simpson Strong-Tie gray paint; HDG available

Installation:

- Use all specified fasteners.
- The WP, HWP and HWPH may be used for weld-on applications. The minimum size weld is a 1½" long fillet weld to each side of the top flange; weld size to match hanger material thickness. See p. 20, note k for weld information. Weld-on applications have the maximum allowable capacity listed. For WP, uplift loads do not apply to this application. For additional load information, refer to technical bulletin T-C-WELDUPLFT at **strongtie.com**.
- Non-modified hangers can support joists sloped up to 1/4:12 using table loads. For joists sloping between 1/4:12 and 3/4:12 use 85% of the table loads. See technical bulletin T-C-SLOPEJST at **strongtie.com**.
- Web stiffeners are required for these hangers.
- If joist is shorter than hanger by more than $1\!\!\!/ 2"$ use only 50% of the table loads.
- For attaching to multi-ply headers, refer to technical bulletin T-C-MPLYHEADR at **strongtie.com**.

Options:

C-C-2024 @ 2024 SIMPSON STRONG-TIE COMPANY INC.

- HWP and HWPH may be sloped up to 45° and/or may have a sloped and/or skewed seat up to 45°. WP skewed up to 84°. See p. 179 for reduction associated with modifications.
- The top flange of the WP, HWP and HWPH may be offset and/or sloped down up to 35°. The top flange may also be opened/closed up to 30°. See p. 179 for reduction associated with modifications.
- All models are available in Type A (joist bevel cut up to 45°).
 See p. 179. WP is also available in Type B style (square-cut joist).
 Contact Simpson Strong-Tie when ordering.
- Hangers with a skew greater than 15° may have all the joist nails on the outside angle.
- Specify the slope up or down in degrees from the horizontal plane and/or the skew right or left in degrees from the perpendicular vertical plane.
- When combining skews and slopes specify whether low side, high side, or center of joist will be flush with the top of the header (see illustration on p. 179).

Ridge Hanger (WP only)

• Top flange may be sloped to a maximum of 35° to accommodate a ridge (see illustration). Specify angle of the slope. Reduce allowable load using straight-line interpolation. See open/closed example.

Saddle Hanger (WPD)

- WPD saddle hanger allowable loads are WP loads for each stirrup. Saddle hangers on stud walls do not achieve catalog loads.
- Recommended S dimension is $\frac{1}{16}$ oversized for carrying members $2\frac{1}{2}$ wide and less or $\frac{1}{6}$ oversized for greater than $2\frac{1}{2}$ wide.

Codes: See p. 13 for Code Reference Key Chart

Web Applications: Visit app.strongtie.com/hs to access our Hanger Selector web application.

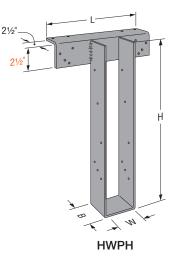


1 11

HWP

Composite Lumber Connectors

I-Joist, Glulam and Structural

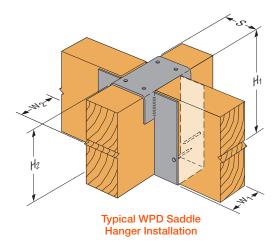


WP

7 ga

top flange

WMU Mid-Wall Installation See pp. 250–251 for models and more information.



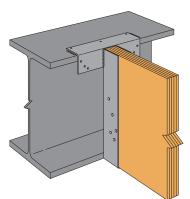


High-Capacity Top-Flange Hangers (cont.)

Model	Stirrup Width (W) (in.)	Stirrup Seat Depth (B) (in.)	Top Flange Length (L) (in.)
	1%6-21⁄16	See load table	7
WP	21/8-35/8	21/2	7
VVP	311/16 - 71/8	21⁄2	8
	73/16 - 71/2	21/2	10
	1 %16	5	10
	1 ¹³ ⁄16	4	10
HWP	23⁄8 - 53⁄8	3	10
	5 ¹¹ / ₁₆ — 7 ¹ / ₈	3	12
	1 13/16 - 21/2	See load table	10
	2%16 - 23⁄4	4	10
HWPH	31⁄4 — 3%16	31⁄4	10
	3 ¹³ ⁄16 — 6 ³ ⁄4	31⁄4	12
	6 ¹³ ⁄16 - 7 ¹ ⁄2	31⁄4	14



Visit app.strongtie.com/hs to access our Hanger Selector web application.



HWP Welded on Steel Flange For welded applications, see technical bulletin T-C-WELDUPLFT at strongtie.com.

Model	Nailer	Fasten	ers (in.)	Uplift ¹	Allow	able Down	Loads
WOUEI	Nallel	Header	Joist (1		DF/SP	SPF/HF	LSL
	2x	(4) 0.148 x 1½	(2) 0.148 x 1½	_	2,465	1,985	3,150
WP	(2) 2x	(4) 0.148 x 2½	(2) 0.148 x 1½	—	2,985	2,230	—
	3x or 4x	(4) 0.162 x 2½	(2) 0.148 x 1½	_	2,985	2,230	3,375
	(2) 2x	<mark>(9)</mark> 0.148 x 3	(10) 0.148 x 1 ½	710	4,415	3,860	4,415
HWP	Зx	<mark>(9)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	970	4,415	3,860	—
	4x	<mark>(9)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	1,535	4,920	3,860	4,920
	(2) 2x	<mark>(12)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	710	5,910	4,820	5,910
HWPH	Зx	<mark>(12)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	970	5,970	5,125	—
	4x	(12) 0.162 x 3½	(10) 0.148 x 1 ½	1,550	5,970	5,125	5,970

1. Attachment of nailer to supporting member is the responsibility of the designer.

2. Uplift loads are based on DF/SP lumber. For SPF/HF, use 0.86 x DF/SP uplift load.

3. Fasteners: Nail dimensions are listed diameter by length. See pp. 23-24 for fastener information.

Various Header Applications

	Joist	t (in.)	Fasteners (in.)			Allowable Loads Header Type								
Model	Width	Depth	Тор	Face	Joist	Uplift (160)	LVL	PSL	LSL	DF/SP	SPF/HF	I-Joist	Code Ref.	
	1 ½ to 7 ½	5% to 30	(4) 0.148 x 1½		(2) 0.148 x 11⁄2	_	2,935	3,150	_	2,465	1,985	2,030		
WP	1 ½ to 7 ½	5% to 30	(4) 0.148 x 2½		(2) 0.148 x 11⁄2	_	2,935	3,150	3,150	2,985	2,230	_		
	1 ½ to 7 ½	5% to 30	(4) 0.162 x 2½		(2) 0.148 x 1 ½	_	3,095	3,605	3,605	2,985	2,230	_	IBC®,	
HWP	1 ½ to 7	6 to 15%	(3) 0.162 x 3½	(6) 0.162 x 3½	(10) 0.148 x 1 1⁄2	1,535	3,995	4,500	4,350	3,955	3,955	_	FL,	
HWP	1 ½ to 7	15¾ to 28	(3) 0.162 x 3½	(6) 0.162 x 3½	(12) 0.148 x 1 ½	1,560	3,995	4,500	4,350	3,955	3,955	_	LA	
	1 ¹³ ⁄16 to 7 ½	6 to 15%	(4) 0.162 x 3½	(8) 0.162 x 3½	(10) 0.148 x 1 ½	1,685	6,595	7,025	5,450	5,920	4,740	_		
HWPH	1 13/16 to 7 1/2	15¾ to 32	(4) 0.162 x 31⁄2	(8) 0.162 x 3½	(12) 0.148 x 1 ½	2,075	6,595	7,025	5,450	5,920	4,740	_		

1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.

2. Uplift loads are based on DF/SP lumber. For SPF/HF, use 0.86 x DF/SP uplift load except WMU, use 0.75 x DF/SP uplift loads. 3. LVL headers are assumed to be made primarily from Douglas fir or southern pine. For LVL made from spruce-pine-fir or

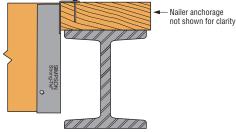
similar less-dense veneers, use the values found in the SPF/HF column.

4. For hanger heights exceeding the joist height, the allowable load is 0.50 of the table load.

5. Fasteners: Nail dimensions are listed diameter by length. Titen Turbo™ screws are Simpson Strong-Tie concrete and masonry screws. See pp. 23-24 for fastener information.

Nailer Table

The table indicates the maximum allowable loads for WP, HWP and HWPH hangers used on wood nailers. Nailers are wood members attached to the top of a steel I-beam, concrete or masonry wall.



Installation on Wood Nailer

High-Capacity Top-Flange Hangers (cont.)

Modifications and Associated Load Reductions for WP/HWP/HWPH

				Seat					Top Flan		Ţ	Flang	t	Joist Height				
Models	Se Slo 45° I		Seat Skewed Type A	Ske	eat wed e B	and S	Sloped kewed be A •45°	Top Flange Sloped	Sloped or Closed		Offset		and Skewed Seat		Top Flange Offset and Skewed Seat Type B, Plumb Cut 1°–84° Joist Shorter Than Hanger			
	Slope Up	Slope Down	1°− 45°	1°− 45°	46°- 84°	Up	Down		30° Max.	Narrow	Wide	Narrow	Wide	Narrow Wide				
WP		1.0		1.	.0		1.0			0.5		0.5		0.25		0.25 0.3		-
HWP	1.0	0.8	1.0	N	/A	1.0	0.8	(90–a)/90	(90–a)/90	0.5 0.6		0.5	0.5 0.6		/A	By more than ½": 0.50 By ½" or less: 1.00		
HWPH		0.0		0.8	0.7		0.0			0.0	0.0	0.5	0.0 0.0		5			

1. For straight-line interpolation, "a" is the specified angle.

2. Reduction factors are not cumulative. Use the lowest factors that apply.

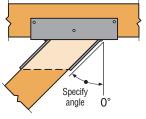
3. Narrow \leq 31/2", Wide > 31/2".

4. HWP and HWPH options receive catalog uplift loads except: top flange offset 30% of the table load, skewed type A is 75% of the table load and HWPH only skewed type B is 50% of the table load.

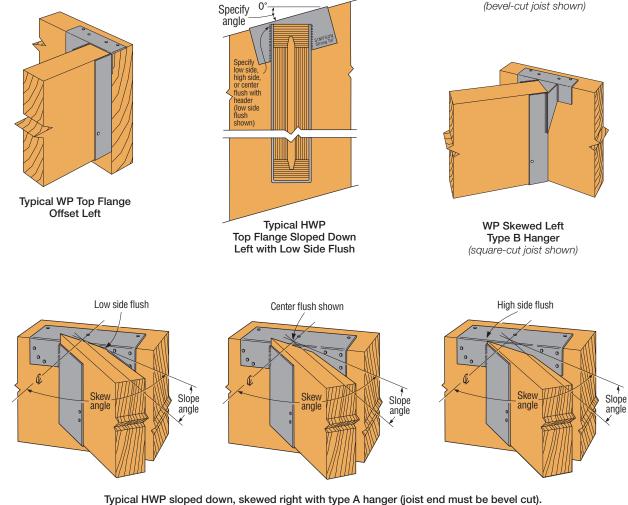
5. Top flange bent closed is not available for HWP or HWPH.

Reduction Factor Instructions

Allowable Download = (lowest of Seat, Top Flange, or Joist Height) × (Table Load) Allowable Uplift = as noted in table per height.



HWP Top View Skewed Left Type A Hanger (bevel-cut joist shown)



pical HWP sloped down, skewed right with type A hanger (joist end must be bevel cu When ordering, specify low side flush, center flush or high side flush. SIMPSO

Strong-T

Plated Truss Top-Flange Hangers

The WP hangers offer design flexibility and versatility supporting trusses off of wood or steel. WMU hangers are designed for use on standard 8" grouted masonry block wall construction.

Material: WP/HWP – 7-gauge top flange and 12-gauge stirrup;

HWPH — 3-gauge top flange and 7-gauge stirrup

Finish: Simpson Strong-Tie gray paint; hot-dip galvanized available: specify HDG. **Installation:**

- Use all specified fasteners.
- The WP may be used for weld-on applications. The minimum size weld is a 1½" long fillet weld to each side of the top flange; weld size to match hanger material thickness. See p. 20 note k for weld information. Weld-on applications have the maximum allowable capacity listed. Uplift loads do not apply to this application.
- Hangers can support multi-ply carried members; the individual members must be secured together to work as a single unit before installation into the hanger.

Options:

- For hanger modification options, see table on p. 134.
- For skewed trusses using the WP hanger, order the Type B stirrup for proper bearing
- For 4x2 trusses, the ANP nail pattern may be ordered with WP hangers, which will relocate the joist nails to the top and bottom chords.
- For concrete and masonry applications, see pp. 250–251 for WMU top-flange hanger.

Saddle Hanger (WPD)

- WPD saddle hanger allowable loads are WP loads for each stirrup. Saddle hangers on stud walls do not achieve catalog loads.
- Recommended S dimension is 1/6" oversized for carrying members 21/2" wide and less or 1/6" oversized for greater than 21/2" wide.

Codes: See p. 13 for Code Reference Key Chart

Web Applications: Visit app.strongtie.com/hs to access our Hanger Selector web application.



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The table indicates the maximum allowable loads for WP, HWP and HWPH hangers used on wood nailers. Nailers are wood members attached to the top of a steel I-beam, concrete or masonry wall.

Model	Nailer	Fasten	ers (in.)	Uplift ¹	Allowable Down Loads				
WOUEI	Nallel	Header	Joist	(160)	DF/SP	SPF/HF	LSL		
	2x	(4) 0.148 x 1 ½	(2) 0.148 x 1 ½	—	2,465	1,985	3,150		
WP	(2) 2x	(4) 0.148 x 21⁄2	(2) 0.148 x 1 ½	—	2,985	2,230	—		
	3x or 4x	(4) 0.162 x 21⁄2	(2) 0.148 x 1 ½	—	2,985	2,230	3,375		
	(2) 2x	<mark>(9)</mark> 0.148 x 3	(10) 0.148 x 1 ½	710	4,415	3,860	4,415		
HWP	Зx	<mark>(9)</mark> 0.162 x 2½	(10) 0.148 x 1 ½	970	4,415	3,860	—		
	4x	(9) 0.162 x 2½	(10) 0.148 x 1 ½	1,535	4,920	3,860	4,920		
	(2) 2x	(12) 0.162 x 2½	(10) 0.148 x 1 ½	710	5,910	4,820	5,910		
HWPH	Зx	(12) 0.162 x 2½	(10) 0.148 x 1 ½	970	5,970	5,125	—		
	4x	(12) 0.162 x 3½	(10) 0.148 x 1 ½	1,550	5,970	5,125	5,970		

1. Attachment of nailer to supporting member is the responsibility of the designer. 2. Uplift loads are based on DF/SP lumber. For SPF/HF, use $0.86 \times DF/SP$ uplift load.

These products are available with additional corrosion protection. For more information, see p. 16.

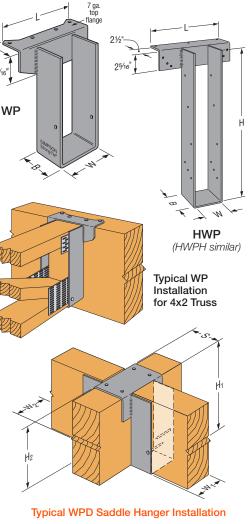
Various Headers

	0.0	0.0.0.0													
	Jois	st (in.)		Fasteners (in.)				Allowable Loads Header Type							
Model	Width⁴	Depth	Тор	Face	Joist	Uplift (160)	LVL	PSL	LSL	DF/SP	SPF/HF	I-Joist	GFCMU	Code Ref.	
	1 ½ to 7 ½	5% to 30	(4) 0.148 x 1 ½	—	(2) 0.148 x 1 1⁄2	—	2,935	3,150	—	2,465	1,985	2,030		—	
WP	1 ½ to 7 ½	5% to 30	(4) 0.148 x 1 ½	—	(2) 0.148 x 11⁄2	—	2,935	3,150	3,150	2,985	2,230				
	1 ½ to 7 ½	5% to 30	(4) 0.162 x 21⁄2	—	(2) 0.148 x 1 1⁄2	—	3,095	3,605	3,605	2,985	2,230				
HWP	1½ to 7	6 to 15%	(3) 0.162 x 31⁄2	(6) 0.162 x 3½	(10) 0.148 x 1 ½	1,535	3,995	4,500	4,350	3,955	3,955	_		IBC®, FL,	
TIVE	1½ to 7	15¾ to 32	(3) 0.162 x 31⁄2	(6) 0.162 x 3½	(12) 0.148 x 1 1⁄2	1,560	3,995	4,500	4,350	3,955	3,955	—	_	LA	
HWPH	2½ to 7½	6 to 15%	(4) 0.162 x 3½	(8) 0.162 x 3½	(10) 0.148 x 1 1⁄2	1,685	6,595	7,025	5,450	5,920	4,740	_	—		
пмыц	2½ to 7½	15¾ to 32	(4) 0.162 x 31⁄2	(8) 0.162 x 3½	(12) 0.148 x 1 1⁄2	2,075	6,595	7,025	5,450	5,920	4,740				

1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.

2. Joist dimensions do not include truss plate thickness.

3. Fasteners: Nail dimensions are listed diameter by length. See pp. 23-24 for fastener information.



Model	Stirrup Width (W) (in.)	Top Flange Length (L) (in.)				
	1 %16 — 3 5⁄8	7				
WP	311/16 - 71/8	8				
	73/16 - 71/2	10				
HWP	1 %16 — 55%	10				
ΠWF	5 ¹¹ /16 — 7 ¹ /8	12				
	1 ¹³ ⁄16 — 3 ³ ⁄4	10				
HWPH	3 ¹³ ⁄16 — 6 ³ ⁄4	12				
	6 ¹³ / ₁₆ - 7 ¹ / ₂	14				