

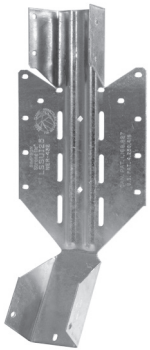
CONNECTOR SELECTION GUIDE

for Residential Construction

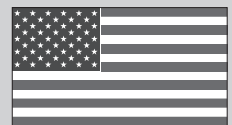


FOR USE WITH PRODUCTS
MANUFACTURED BY:

PACIFIC
WOODTECH[™]
HISTORY BUILT. FUTURE BOUND.



This guide lists popular options for Simpson Strong-Tie® hangers used with engineered wood products. Not all available hanger and installation combinations are listed. Use in conjunction with the current Simpson Strong-Tie **Wood Construction Connectors** catalog for detailed hanger information.



**ALLOWABLE
STRESS DESIGN**

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CONNECTOR SELECTOR NOTES

General Notes

- See current Wood Construction Connectors catalog for Important Information and General Notes section and for hanger models, joist sizes, and support conditions not shown. See pages 10-11 of this guide for installation information.
- Unless otherwise noted loads listed in tables are in pounds and address the attachment of the hanger to a solid support member. Loads listed under the Download heading cover Douglas Fir, Southern Pine and LVL, except for LVL made primarily from Spruce-Pine-Fir or similar low density material, use loads listed under SPF in the current *Wood Construction Connectors* catalog. Load resistance shown is the lower of either the hanger capacity or the I-joist bearing capacity published by the manufacturer. Joist or beam reactions should be checked by a qualified Designer to ensure proper hanger selection. See below for I-joist headers.
- Uplift loads listed for single and double I-joists assume DF/LVL flanges and have been increased by 60% for earthquake and wind loading with no further increase allowed. Reduce loads according to code for normal duration loading such as cantilever construction.
- An I-joist must be laterally supported to prevent rotation; see Prevent Rotation below.
- For top flange hangers, the configuration and thickness of the hanger top flange need to be considered for flush framing conditions, see page 10.
- For this publication, support members are assumed to be at least 5½" tall. The horizontal thickness of the support member must be at least the length of the nail being used and at least the length of the hanger top flange.
Exception: face mount hangers may be mounted on support members narrower than the nail length provided the nail penetration is at least 1¾ inches for 10d or 2 inches for 16d; clinch nails on back side.
- THAI hangers shown in the single and double I-joist tables are based on the "top flange" installation and require that the carrying member has a horizontal thickness of at least 2½". Install four top nails and two face nails. THAI hangers are not rated for uplift.
- All nails shown are common nails unless otherwise noted.
16d = 0.162" dia. x 3½" long
10d = 0.148" dia. x 3" long
10d x 1½" = 0.148" dia. x 1½" long

I-Joist Headers

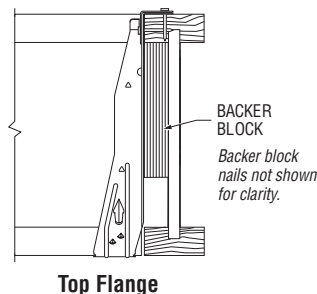
When supporting one I-joist from another, backer blocks must be used. Backer blocks are to be made from plywood, OSB, or dimension lumber. The thickness of a backer block should be the same thickness as the void in the side of the I-joist and a minimum of 12" wide. Attach with 10-10d common nails clinched as necessary, prior to installing the hanger. For Top Flange hangers, install backer blocks tight to top flange. For Face Mount hangers, install backer blocks tight to bottom flange. Refer to I-Joist manufacturer literature for specific guidelines.

Top Flange Hangers:

Use 10dx1½" nails for all Top Flange hangers attached to an I-joist header. See table for allowable loads.

Model No.	I-Joist Header: 1½" Thick Flange Material¹	
	DF/SCL	SPF
ITS	1,085	940
MIT	1,230	885
BA	1,495	1,495

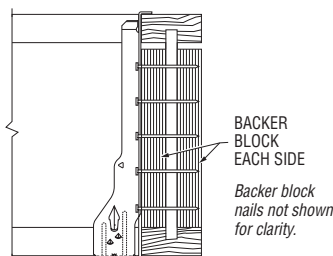
- For flanges with thicknesses from 1⅛" to 1¾", use 0.85 of the I-joist header load. For flanges with thicknesses from 1¾" to 1⅞", use 0.75 of the I-joist header load.



Top Flange

Face Mount Hangers:

Nails that get less than 2 inches of penetration must be clinched on the back side. Double I-joist headers must be attached together to act as a single unit.



Face Mount

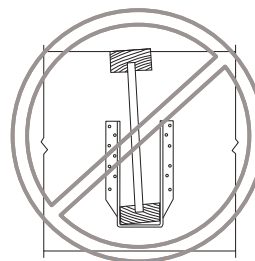
Sloped Joists:

For joists sloped up to ¼:12, there is no reduction of load. For slopes greater than ¼:12, see table.

Sloped Joist		
Model	Slope	Reduction
ITS, IUS, MIT, MIU, BA, HB	½:12 max	10%
WP	¾:12 max	15%
HU	1½:12 max	0%
	¾:12 max	10%

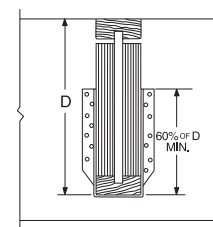
Prevent Rotation

Hangers provide some joist rotation resistance; however, additional lateral restraint may be required for deep joists.



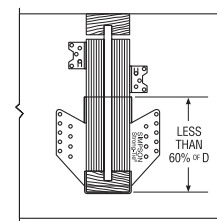
No Rotation Resistance

Lack of web stiffeners combined with short hanger allows unwanted rotation



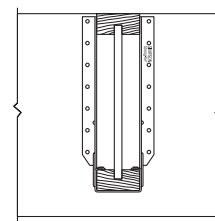
Rotation Prevented by Web Stiffeners

Hanger height should be at least 60% of the joist height.



Rotation Prevented by Web Stiffeners

If hanger height is less than 60% of the joist height, add clips or blocking near the top.



Rotation Prevented by Lateral Flange Support

Sides of hanger laterally support the top flange of the I-joist. No web stiffeners required!

HOW TO PICK A HANGER

Follow these simple steps to choose your hanger:
(For I-joist header, see page 2.)

1	Find your joist type in this guide. (single I-joist, double I-joist, beam)
2	Locate your connector type in the table. <ul style="list-style-type: none">• Face mount, top flange, skewed, sloped, etc.
3	Select a hanger from the table.
4	Confirm that your joist load is less than the hanger allowable load.
5	Check to see if the bearing length “B dim” meets the bearing length requirement of the I-joist manufacturer. If yes, you have successfully selected your hanger.
	<p>If you did not find a suitable hanger; Please see the current <i>Wood Construction Connectors</i> catalog or call Simpson Strong-Tie at (800) 999-5099.</p> <p>You will need the following information:</p> <ul style="list-style-type: none">• Download• Uplift• Header condition• Bearing length requirement

SINGLE I-JOISTS — US/Allowable Load (lb.)^{1,2,3}



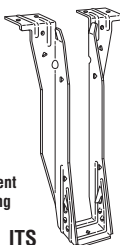
Joist Height	Top Flange					Face Mount					45° Skew							
	Model	B Dim	Fastener (in.)		Uplift (160)	Down-load	Model	B Dim	Fastener (in.)		Uplift (160)	Down-load	Model	B Dim	Fastener (in.)		Uplift (160)	Down-load
			Header	Joist					Header	Joist					Header	Joist		
PWI 30						Joist Width = 1 1/2"												
9 1/2	ITS1.56/9.5	2	(6) 0.148 x3	—	120	965	U210	2	(6) 0.148 x3	(6) 0.148 x1 1/2	990	965	SUR/L210	2	(10) 0.162 x3 1/2	(10) 0.148 x1 1/2	1,250	965
11 7/8	ITS1.56/11.88	2		U210	2	990	1,000	SUR/L214			2	(12) 0.162 x3 1/2	(12) 0.148 x1 1/2	1,890	1,000			
PWI20, PWI50						Joist Width = 1 3/4"												
9 1/2	ITS1.81/9.5	2	(6) 0.148 x3	—	120	940	IUS1.81/9.5	2	(8) 0.148 x3	—	70	940	SUR/L1.81/9	3	(12) 0.162 x3 1/2	(2) 0.148 x1 1/2	175	1,040
11 7/8	ITS1.81/11.88	2		IUS1.81/11.88	2	(10) 0.148 x3	—	70	970	SUR/L1.81/11	3	(16) 0.162 x3 1/2	175	1,210				
14	ITS1.81/14	2		IUS1.81/14	2	(12) 0.148 x3	—	70	970	SUR/L1.81/14	3	(20) 0.162 x3 1/2	175	1,040				
16	ITS1.81/16	2		IUS1.81/16	2	(14) 0.148 x3	—	70	1,055	SUR/L1.81/14	3	(8) 0.148 x1 1/2	795	1,380				
PWI45						Joist Width = 2 1/8"												
9 1/2	ITS2.06/9.5	2	(6) 0.148 x3	—	120	1,000	IUS2.06/9.5	2	(8) 0.148 x3	—	70	950	SUR/L2.1/9	3 3/8	(14) 0.162 x3 1/2	(2) 0.148 x1 1/2	175	1,095
11 7/8	ITS2.06/11.88	2		IUS2.06/11.88	2	(10) 0.148 x3	—	70	1,040	SUR/L2.1/11	3 3/8	(16) 0.162 x3 1/2	175	1,335				
14	ITS2.06/14	2		IUS2.06/14	2	(12) 0.148 x3	—	70	1,040	SUR/L2.1/14	3 3/8	(18) 0.162 x3 1/2	175	1,335				
16	ITS2.06/16	2		IUS2.06/16	2	(14) 0.148 x3	—	70	1,040	SUR/L2.1/14	3 3/8	(8) 0.148 x1 1/2	1,190	1,900				
PWI 40, PWI 47, PWI 60, PWI 70, PWI 77						Joist Width = 2 5/8"												
9 1/2	ITS2.37/9.5	2	(6) 0.148 x3	—	120	900	IUS2.37/9.5	2	(8) 0.148 x3	—	70	900	SUR/L2.37/9	3 3/8	(14) 0.162 x3 1/2	(2) 0.148 x1 1/2	175	1,135
11 7/8	ITS2.37/11.88	2		IUS2.37/11.88	2	(10) 0.148 x3	—	70	935	SUR/L2.37/11	3 3/8	(16) 0.162 x3 1/2	175	1,170				
14	ITS2.37/14	2		IUS2.37/14	2	(12) 0.148 x3	—	70	950	SUR/L2.37/14	3 3/8	(18) 0.162 x3 1/2	175	1,200				
16	ITS2.37/16	2		IUS2.37/16	2	(14) 0.148 x3	—	70	965	SUR/L2.37/14	3 3/8		1,190	1,780				
18	MIT3518	2 1/2	(8) 0.162 x3 1/2	(2) 0.148 x1 1/2	215	1,095	MIU2.37/18	2 1/2	(26) 0.162 x3 1/2	(2) 0.148 x1 1/2	230	1,095	SUR/L2.37/14	3 3/8	(8) 0.148 x1 1/2	1,190	1,955	
20	MIT3520	2 1/2			215	1,115	MIU2.37/20	2 1/2	(28) 0.162 x3 1/2		230	1,115	SUR/L2.37/14	3 3/8		1,190	2,095	
PWI90						Joist Width = 3 1/2"												
9 1/2	ITS3.56/9.5	2	(6) 0.148 x3	—	120	1,405	IUS3.56/9.5	2	(10) 0.148 x3	—	70	1,185	SUR/L410	2 5/8	(14) 0.162 x3 1/2	(6) 0.162 x3 1/2	1,140	1,430
11 7/8	ITS3.56/11.88	2		IUS3.56/11.88	2	(12) 0.148 x3	—	70	1,420	SUR/L410	2 5/8	(18) 0.162 x3 1/2	(8) 0.162 x3 1/2	1,140	1,915			
14	ITS3.56/14	2		IUS3.56/14	2	(14) 0.148 x3	—	70	1,420	SUR/L414	2 5/8		1,490	2,015				
16	ITS3.56/16	2		IUS3.56/16	2	(16) 0.148 x3	—	70	1,470	SUR/L414	2 5/8		1,490	2,115				
18	MIT418	2 1/2	(8) 0.162 x3 1/2	(2) 0.148 x1 1/2	215	1,615	MIU3.56/18	2 1/2	(26) 0.162 x3 1/2	(2) 0.148 x1 1/2	210	1,615	SUR/L414	2 5/8	(8) 0.162 x3 1/2	1,490	2,345	
20	MIT420	2 1/2			215	1,615	MIU3.56/20	2 1/2	(28) 0.162 x3 1/2		210	1,615	SUR/L414	2 5/8		1,490	2,400	

1. Shaded hangers require web stiffeners at joist ends. Joist manufacturers may also require web stiffeners for non-shaded areas.
2. Some joists may not be available in every height shown on chart. Check with manufacturer for availability.

3. The B Dim is the length of the hanger seat.
4. The LSSR requires web stiffeners that are 4" wide and attached with (4) nails each side.
5. Fir the LSSR, nails and loads shown are for skewed rafter condition. See *Wood Construction Connectors* catalog for nailing options with higher loads.

ITS – 18 gauge
The ITS top flange hanger with its Strong-Grip™ seat and Funnel Flange™ installs faster than any other top flange hanger. Joist nails are not required.

US Patent Pending



ITS

IUS – 18 gauge
The IUS is a hybrid hanger that incorporates the advantages of face-mount and top-flange hangers. Joist nails are not required.

US Patent 6,523,321



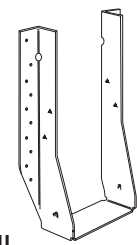
IUS

MIT – 16 gauge
The MIT's Positive Angle Nailing helps minimize splitting of the I-Joist's bottom flange. Features uplift capacity and extended seat design (to allow installation of slightly undercut joists).



MIT

MIU – 16 gauge
The MIU series features 16 gauge steel and extra nailing for higher loads than the IUS.



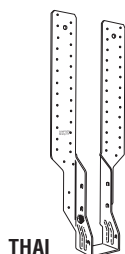
MIU

SINGLE I-JOISTS — US/Allowable Load (lb.)



Joist Height	Adjustable Height							Field Slope and Skew					
	Model	B Dim	Fastener (in.)			Uplift (160)	Download	Model	B Dim	Fastener (in.)		Uplift (160)	Download
			Header		Joist					Header	Joist		
			Top	Face									
PWI 30			Joist Width 1½"										
9½	THAI222	2¼	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	985	See <i>Wood Construction Connectors</i> catalog for Hanger Selection					
11⅞	THAI222	2¼				—	1,050						
PWI 20, PWI 50			Joist Width 1¾"										
9½	THAI1.81/22	2¼	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	1,040	LSSR1.81Z	1⅞	(13) 0.148 x 3	(9) 0.148 x 1½	510	1,020
11⅞	THAI1.81/22	2¼				—	1,105	LSSR1.81Z	1⅞			510	1,040
14	THAI1.81/22	2¼				—	1,120	LSSR1.81Z	1⅞			510	1,040
16	See <i>Wood Construction Connectors</i> catalog for Hanger Selection							See <i>Wood Construction Connectors</i> catalog for Hanger Selection					
PWI 45			Joist Width 2⅝"										
9½	THAI2.1/22	2¼	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	1,120	LSSR2.1Z	1⅞	(13) 0.148 x 3	(9) 0.148 x 1½	510	1,060
11⅞	THAI2.1/22	2¼				—	1,420	LSSR2.1Z	1⅞			510	1,060
14	THAI2.1/22	2¼				—	1,610	LSSR2.1Z	1⅞			510	1,060
16	See <i>Wood Construction Connectors</i> catalog for Hanger Selection							See <i>Wood Construction Connectors</i> catalog for Hanger Selection					
PWI 40, PWI 47, PWI 60, PWI 70, PWI 77			Joist Width 2⅝"										
9½	THAI3522	2¼	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	1,120	LSSR2.37Z	1⅞	(13) 0.148 x 3	(9) 0.148 x 1½	510	1,060
11⅞	THAI3522	2¼				—	1,420	LSSR2.37Z	1⅞			510	1,060
14	THAI3522	2¼				—	1,610	LSSR2.37Z	1⅞			510	1,060
16	See <i>Wood Construction Connectors</i> catalog for Hanger Selection							See <i>Wood Construction Connectors</i> catalog for Hanger Selection					
18													
20													
PWI 90			Joist Width 3½"										
9½	THAI422	2¼	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	1,430	LSSR410Z	1⅞	(20) 0.162 x 3½	(14) 0.162 x 3½	695	1,430
11⅞	THAI422	2¼				—	1,710	LSSR410Z	1⅞			695	1,810
14	THAI422	2¼				—	1,710	LSSR410Z	1⅞			695	1,810
16	See <i>Wood Construction Connectors</i> catalog for Hanger Selection							See <i>Wood Construction Connectors</i> catalog for Hanger Selection					
18													
20													

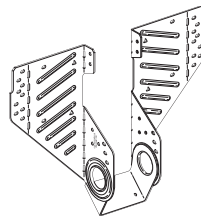
1. See notes on p.4.



THAI

THAI – 18 gauge

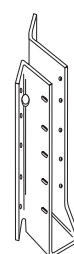
This hanger has extra long straps and can be field-formed to give height adjustability and top flange hanger convenience. Positive angle nailing helps minimize splitting of the I-Joist's bottom flange. Minimum nailing is shown in the table above. Strap must be field-formed over the top of the header by a minimum of 2½". Web stiffeners required when used with I-Joists.



LSSR

LSSR – 18 gauge, 16 gauge

LSSR models provide uplift capacity and can be field sloped and/or skewed to 45°. Web stiffeners required when used with I-Joists; cut web stiffener to match angle on sloped conditions.



SUL

SUR/L – 16 gauge

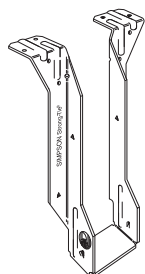
HSUR/L – 14 gauge
All models are skewed 45°. Normally accommodates a 40° - 50° skew. The installation of these hangers does not require a beveled end cut.

DOUBLE I-JOISTS — US/Allowable Load (lb.)^{1,5}

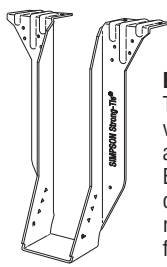


Joist Height	Top Flange						Face Mount						45° Skew						
	Model	B Dim	Fastener (in.)		Uplift (160)	Down-load	Model	B Dim	Fastener (in.)		Uplift (160)	Down-load	Model	B Dim	Fastener (in.)		Uplift (160)	Down-load	
			Header	Joist					Header	Joist					Header	Joist			
Double PWI 30						Joist Width 3"													
9½	BA3.12X (H=9½)	3	(16) 0.162 x 3 ½	(8) 0.148 x 1 ½	1,225	2,085	MIU3.12/9	2½	(16) 0.162 x 3 ½	(2) 0.148 x 1 ½	230	2,005	SUR/L210-2	2½	(14) 0.162 x 3 ½	(6) 0.162 x 2 ½	1,150	2,015	
11⅞	MIT411.88	2½	(8) 0.162 x 3 ½	(2) 0.148 x 1 ½	215	2,205	MIU3.12/11	2½	(20) 0.162 x 3 ½		230	2,205	SUR/L210-2	2½		(6) 0.162 x 2 ½	1,150	2,015	
Double PWI 20, Double PWI 50						Joist Width 3½"													
9½	MIT49.5	2½	(8) 0.162 x 3 ½	(2) 0.148 x 1 ½	215	2,100	MIU3.56/9	2½	(16) 0.162 x 3 ½	(2) 0.148 x 1 ½	210	1,985	SUR/L410	2½	(14) 0.162 x 3 ½	(6) 0.162 x 3 ½	1,140	2,015	
11⅞	MIT411.88	2½			215	2,300	MIU3.56/11	2½	(20) 0.162 x 3 ½		210	2,165	SUR/L410	2½		(6) 0.162 x 3 ½	1,140	2,015	
14	MIT414	2½			215	2,350	MIU3.56/14	2½	(22) 0.162 x 3 ½		210	2,165	SUR/L414	2½		(18) 0.162 x 3 ½	(8) 0.162 x 3 ½	1,490	2,400
16	MIT416	2½			215	2,470	MIU3.56/16	2½	(24) 0.162 x 3 ½		210	2,275	SUR/L414	2½		(8) 0.162 x 3 ½	1,490	2,400	
Double PWI 45						Joist Width 4½"													
9½	MIT4.28/9.5	2½	(8) 0.162 x 3 ½	(2) 0.148 x 1 ½	215	2,240	MIU4.28/9	2½	(16) 0.162 x 3 ½	(2) 0.148 x 1 ½	210	2,240	HSUR/L4.28/9	3	(12) 0.162 x 3 ½	(2) 0.148 x 1 ½	165	1,785	
11⅞	MIT4.28/11.88	2½			215	2,575	MIU4.28/11	2½	(20) 0.162 x 3 ½		210	2,840	HSUR/L4.28/11	3	(16) 0.162 x 3 ½		165	2,380	
14	MIT4.28/14	2½			215	2,575	MIU4.28/14	2½	(22) 0.162 x 3 ½		210	3,170	HSUR/L4.28/11	3			165	2,380	
16	BA4.28/16	3	(16) 0.162 x 3 ½	(8) 0.148 x 1 ½	1,225	2,575	MIU4.28/16	2½	(24) 0.162 x 3 ½		210	3,455	HSUR/L4.28/11	3			165	2,380	
Double PWI 40, Double PWI 47, Double PWI 60, Double PWI 70, Double PWI 77						Joist Width 4¾"													
9½	MIT359.5-2	2½	(8) 0.162 x 3 ½	(2) 0.148 x 1 ½	215	1,960	MIU4.75/9	2½	(16) 0.162 x 3 ½	(2) 0.148 x 1 ½	210	1,960	HSUR/L4.75/9	2¾	(12) 0.162 x 3 ½	(2) 0.148 x 1 ½	165	1,785	
11⅞	MIT3511.88-2	2½			215	2,230	MIU4.75/11	2½	(20) 0.162 x 3 ½		210	2,230	HSUR/L4.75/11	2¾	(16) 0.162 x 3 ½		165	2,380	
14	MIT3514-2	2½			215	2,395	MIU4.75/14	2½	(22) 0.162 x 3 ½		210	2,395	HSUR/L4.75/14	2¾	(20) 0.162 x 3 ½		165	2,590	
16	MIT4.75/16	2½			215	2,405	MIU4.75/16	2½	(24) 0.162 x 3 ½		210	2,405	HSUR/L4.75/16	2¾	(24) 0.162 x 3 ½		165	2,600	
18	BA4.75/18	3	(16) 0.162 x 3 ½	(8) 0.148 x 1 ½	1,225	2,425	MIU4.75/18	2½	(26) 0.162 x 3 ½		210	2,600	HSUR/L4.75/16	2¾	(24) 0.162 x 3 ½		165	2,855	
20	BA4.75/20	3			1,225	2,480	MIU4.75/20	2½	(28) 0.162 x 3 ½		210	2,615	HSUR/L4.75/16	2¾	(24) 0.162 x 3 ½		165	2,865	
Double PWI 90						Joist Width 7"													
9½	BA7.12/9.5	3	(16) 0.162 x 3 ½	(8) 0.148 x 1 ½	1,225	2,845	HU410-2	2½	(18) 0.162 x 3 ½	(8) 0.162 x 3 ½	1,795	2,680	HU410-2X	2½	(18) 0.162 x 3 ½	(8) 0.162 x 3 ½	1,435	2,145	
11⅞	BA7.12/11.88	3			1,225	3,515	HU412-2	2½	(22) 0.162 x 3 ½		1,795	3,275	HU412-2X	2½	(22) 0.162 x 3 ½		1,435	2,620	
14	BA7.12/14	3			1,225	3,515	HU414-2	2½	(26) 0.162 x 3 ½	(12) 0.162 x 3 ½	2,695	3,870	HU414-2X	2½	(26) 0.162 x 3 ½	(12) 0.162 x 3 ½	2,155	3,095	
16	BA7.12/16	3			1,225	3,515	HU414-2	2½			2,695	3,870	HU414-2X	2½			2,155	3,095	
18	BA7.12/18	3			1,225	3,515	HU414-2	2½			2,695	3,870	HU414-2X	2½			2,155	3,095	
20	BA7.12/20	3			1,225	4,720	HU414-2	2½			2,695	3,870	HU414-2X	2½			2,155	3,095	

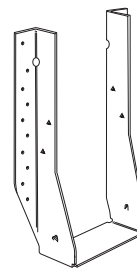
1. Shaded hangers require web stiffeners at joist ends. Joist manufacturer may also require web stiffeners for non-shaded areas.
2. HU skewed option must be special ordered. Specify skew angle and direction (e.g. HU414-2X R45°).
3. LSU hangers are not field skewable. (Field-slope only.) Skewed option must be special ordered, specify skew angle.
4. THAI-2 must be special ordered. Specify width between 3 ½" and 5 ½".
5. Some joists are not available in every height shown. Check with manufacturer for availability.
6. HSUR has additional optional holes for increased uplift. Refer to current *Wood Construction Connectors* catalog.
7. The B Dim is the length of the hanger seat.
8. The LSSR requires web stiffeners that are 4" wide and attached with (4) nails each side.
9. For the LSSR, nails and loads shown are for skewed rafter condition. See *Wood Construction Connectors* catalog for nailing options with higher loads.



MIT – 16 gauge
The MIT's Positive Angle Nailing helps minimize splitting of the I-joist's bottom flange. Features uplift capacity and extended seat design (to allow installation of slightly undercut joists).



BA – 14 gauge
The BA series offers versatility for I-joists and SCL lumber. Enhanced load capacity widens the range of applications for these hangers.



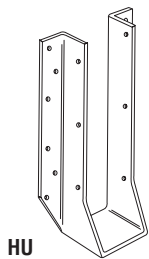
MIU – 16 gauge
The MIU series features 16 gauge steel and extra nailing for higher loads than the IUS.

DOUBLE I-JOISTS — US/Allowable Load (lb.)



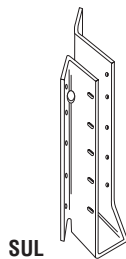
Joist Height	Adjustable Height							Field Slope and Skew						
	Model	B Dim	Fastener (in.)			Uplift (160)	Download	Model	B Dim	Fastener (in.)		Uplift (160)	Download	
			Header		Joist					Header	Joist			
			Top	Face										
Double PWI 30							Joist Width 3"							
9½	THAI-2	2½	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	1,710	LSSR210-2Z	1⅞	(20) 0.162 x 2½	(14) 0.162 x 2½	695	1,910	
11⅞	THAI-2	2½				—	1,710	LSSR210-2Z	1⅞			695	1,945	
Double PWI 20, Double PWI 50							Joist Width 3½"							
9½	THAI422	2¼	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	1,710	LSSR410Z	1⅞	(20) 0.162 x 2½	(14) 0.162 x 2½	695	2,040	
11⅞	THAI422	2¼				—	1,710	LSSR410Z	1⅞			695	2,075	
14	THAI422	2¼				—	1,710	LSSR410Z	1⅞			695	2,085	
16	See <i>Wood Construction Connectors</i> catalog for Hanger Selection							See <i>Wood Construction Connectors</i> catalog for Hanger Selection						
Double PWI 45							Joist Width 4⅝"							
9½	THAI-2	2½	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	1,710	LSU4.28	3½	(24) 0.162 x 3½	(16) 0.148 x 1½	1,150	2,240	
11⅞	THAI-2	2½				—	1,710	LSU4.28	3½			1,150	2,300	
14	THAI-2	2½				—	1,710	LSU4.28	3½			1,150	2,300	
16	See <i>Wood Construction Connectors</i> catalog for Hanger Selection							See <i>Wood Construction Connectors</i> catalog for Hanger Selection						
Double PWI 40, Double PWI 47, Double PWI 60, Double PWI 70, Double PWI 77							Joist Width 4⅝"							
9½	THAI-2	2½	(4) 0.148 x 3	(2) 0.148 x 3	(2) 0.148 x 1½	—	1,710	LSU3510-2	3½	(24) 0.162 x 3½	(16) 0.148 x 1½	1,150	2,240	
11⅞	THAI-2	2½				—	1,710	LSU3510-2	3½			1,150	2,300	
14	THAI-2	2½				—	1,710	LSU3510-2	3½			1,150	2,300	
16	See <i>Wood Construction Connectors</i> catalog for Hanger Selection							See <i>Wood Construction Connectors</i> catalog for Hanger Selection						
18														
20														
Double PWI 90							Joist Width 7"							
9½	See <i>Wood Construction Connectors</i> catalog for Hanger Selection							See <i>Wood Construction Connectors</i> catalog for Hanger Selection						
11⅞														
14														
16														
18														
20														

1. See table notes on p.6.



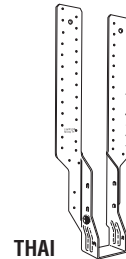
HU

HU — 14 gauge
The HU series features uplift capacity and a large selection of sizes and load ranges. HU hangers have triangle holes that can be filled for increased loads. Web stiffeners required when used with I-joists.



SUL

SUR/L — 16 gauge
HSUR/L — 14 gauge
All models are skewed 45°. Normally accommodates a 40°- 50° skew. The installation of these hangers does not require a beveled end cut.



THAI

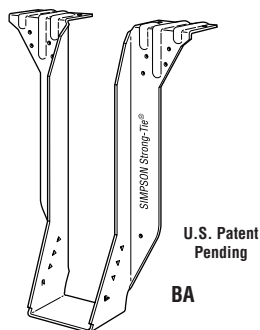
THAI — 18 gauge
THAI-2 — 14 gauge
This hanger has extra long straps and can be field-formed to give height adjustability and top flange hanger convenience. Positive angle nailing helps minimize splitting of the I-joist's bottom flange. Minimum nailing is shown in the table above. Strap must be field-formed over the top of the header by a minimum of 2½". Web stiffeners required when used with I-joists.

LVL BEAMS and HEADERS — US/Allowable Load (lb.)

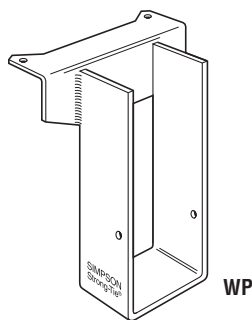


Joist Height	Top Flange						Face Mount					
	Model	B Dim	Fastener (in.)		Uplift (160)	Download (100)	Model	B Dim	Fastener (in.)		Uplift (160)	Download (100)
			Header	Joist					Header	Joist		
1¼" LVL												
7¼	BA1.81/7.25	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HU7	2½	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,515	2,380
9¼	WP1.81 (H=9.25)	3½	(2) 0.162 x ¾	(2) 0.148 x 1 ½	—	3,635	HU7	2½	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,515	2,380
	BA1.81/9.25	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HUS1.81/10	3	(30) 0.162 x ¾	(10) 0.162 x ¾	2,675	5,135
9½	MIT9.5	2½	(8) 0.162 x ¾	(2) 0.148 x 1 ½	215	2,550	HU9	2½	(24) 0.162 x ¾	(10) 0.148 x 1 ½	1,795	3,570
	BA1.81/9.5	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HUS1.81/10	3	(30) 0.162 x ¾	(10) 0.162 x ¾	2,675	5,135
11¼	WP1.81 (H=11.25)	3½	(2) 0.162 x ¾	(2) 0.148 x 1 ½	—	3,635	HU11	2½	(30) 0.162 x ¾	(10) 0.148 x 1 ½	1,795	4,465
	BA1.81/11.25	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HUS1.81/10	3	(30) 0.162 x ¾	(10) 0.162 x ¾	2,675	5,135
11⅞	MIT11.88	2½	(8) 0.162 x ¾	(2) 0.148 x 1 ½	215	2,550	HU11	2½	(30) 0.162 x ¾	(10) 0.148 x 1 ½	1,795	4,465
	BA1.81/11.88	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HUS1.81/10	3	(30) 0.162 x ¾	(10) 0.162 x ¾	2,675	5,135
14	MIT1.81/14	2½	(8) 0.162 x ¾	(2) 0.148 x 1 ½	215	2,550	HU14	2½	(36) 0.162 x ¾	(14) 0.148 x 1 ½	1,795	5,055
	BA1.81/14	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HUS1.81/10	3	(30) 0.162 x ¾	(10) 0.162 x ¾	2,675	5,135
2 Ply 1¼" LVL or 3½" LVL												
7¼	BA3.56/7.25	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HHUS48	3	(22) 0.162 x ¾	(8) 0.162 x ¾	1,780	4,210
9¼	BA3.56/9.25	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HHUS410	3	(30) 0.162 x ¾	(10) 0.162 x ¾	3,565	5,635
	HB3.56/9.25	3½	(22) 0.162 x ¾	(10) 0.162 x ¾	2,075	5,815	HGUS410	4	(46) 0.162 x ¾	(16) 0.162 x ¾	4,095	9,100
9½	BA3.56/9.5	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HHUS410	3	(30) 0.162 x ¾	(10) 0.162 x ¾	3,565	5,635
	HB3.56/9.5	3½	(22) 0.162 x ¾	(10) 0.162 x ¾	2,075	5,815	HGUS410	4	(46) 0.162 x ¾	(16) 0.162 x ¾	4,095	9,100
11¼	BA3.56/11.25	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HHUS410	3	(30) 0.162 x ¾	(10) 0.162 x ¾	3,565	5,635
	HB3.56/11.25	3½	(22) 0.162 x ¾	(10) 0.162 x ¾	2,075	5,815	HGUS412	4	(56) 0.162 x ¾	(2) 0.162 x ¾	5,040	9,400
11⅞	BA3.56/11.88	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HHUS410	3	(30) 0.162 x ¾	(10) 0.162 x ¾	3,565	5,635
	HB3.56/11.88	3½	(22) 0.162 x ¾	(10) 0.162 x ¾	2,075	5,815	HGUS412	4	(56) 0.162 x ¾	(2) 0.162 x ¾	5,040	9,400
14	BA3.56/14	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HHUS410	3	(30) 0.162 x ¾	(10) 0.162 x ¾	3,565	5,635
	HGLTV3.514	6	(18) 0.162 x ¾	(6) 0.162 x ¾	1,120	10,585	HGUS414	4	(66) 0.162 x ¾	(22) 0.162 x ¾	5,515	9,695
16	BA3.56/16	3	(16) 0.162 x ¾	(8) 0.148 x 1 ½	1,225	4,715	HHUS410	3	(30) 0.162 x ¾	(10) 0.162 x ¾	3,565	5,635
	HGLTV3.516	6	(18) 0.162 x ¾	(6) 0.162 x ¾	1,120	10,585	HGUS414	4	(66) 0.162 x ¾	(22) 0.162 x ¾	5,515	9,695
18	HB3.56/18	3½	(22) 0.162 x ¾	(10) 0.162 x ¾	2,075	5,815	HHUS410	3	(30) 0.162 x ¾	(10) 0.162 x ¾	3,565	5,635
	HGLTV3.518	6	(18) 0.162 x ¾	(6) 0.162 x ¾	1,120	10,585	HGUS414	4	(66) 0.162 x ¾	(22) 0.162 x ¾	5,515	9,695

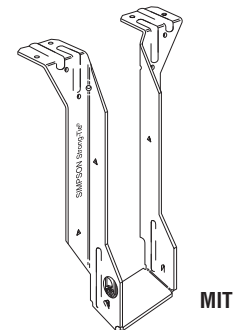
1. HU hangers use both round and triangle holes.
2. Download assumes LVL header.
3. When ordering the EGQ, HGU, HHGU specify height.



BA – 14 gauge
The BA series offers versatility for I-joists and SCL lumber. Enhanced load capacity widens the range of applications for these hangers.



WP – Top flange – 7 gauge; Stirrup – 12 gauge
This welded series offers the greatest design flexibility and versatility, and a large selection of sizes. Suitable for welded and nailer applications, and modifications including slopes and skews.

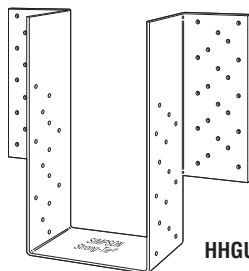


MIT – 16 gauge
The MIT's positive angle nailing helps minimize splitting of the I-joists' bottom flange. Features uplift capacity and extended seat design (to allow installation of slightly undercut joists).

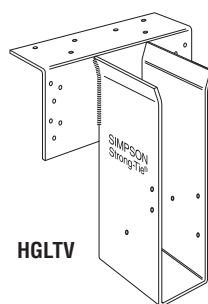
LVL BEAMS and HEADERS — US/Allowable Load (lb.)

Joist Height	Top Flange						Face Mount					
	Model	B Dim	Fastener (in.)		Uplift (160)	Down-load (100)	Model	B Dim	Fastener (in.)		Uplift (160)	Down-load (100)
			Header	Joist					Header	Joist		
3 Ply 1¾" LVL or 5¼" LVL												
7¼	BA5.50X (H=7.25)	3	(16) 0.162 x 3½	(8) 0.148 x 1½	1,225	4,715	HU68	2½	(14) 0.162 x 3½	(6) 0.162 x 3½	1,135	2,085
9¼	HB5.50/9.25	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS5.50/10	3	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	HGLTV5.37 (H=9.25)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS5.50/10	4	(46) 0.162 x 3½	(16) 0.162 x 3½	4,095	9,100
9½	HB5.50/9.5	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS5.50/10	3	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	HGLTV5.37 (H=9.5)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS5.50/10	4	(46) 0.162 x 3½	(16) 0.162 x 3½	4,095	9,100
11¼	HB5.50/11.25	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS5.50/10	3	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	HGLTV5.37 (H=11.25)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS5.50/12	4	(56) 0.162 x 3½	(20) 0.162 x 3½	5,040	9,400
11⅞	HB5.50/11.88	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS5.50/10	3	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	HGLTV5.37 (H=11.875)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS5.50/12	4	(56) 0.162 x 3½	(10) 0.162 x 3½	5,040	9,400
14	HB5.50/14	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS5.50/10	3	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	EGQ5.37-SDS (H=14)	6	(28) SDS ¼ x 3	(12) SDS ¼ x 3	7,670	19,800	HGUS5.50/14	4	(66) 0.162 x 3½	(22) 0.162 x 3½	5,515	9,695
16	HB5.50/16	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HGUS5.50/14	4	(66) 0.162 x 3½	(22) 0.162 x 3½	5,515	9,695
	EGQ5.37-SDS (H=16)	6	(28) SDS ¼ x 3	(12) SDS ¼ x 3	7,670	19,800	HGU5.50-SDS	5¼	(36) SDS ¼ x 2½	(24) SDS ¼ x 2½	9,460	13,160
18	HGLTV5.37 (H=18)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS5.50/14	4	(66) 0.162 x 3½	(22) 0.162 x 3½	5,515	9,695
	EGQ5.37-SDS (H=18)	6	(28) SDS ¼ x 3	(12) SDS ¼ x 3	7,670	19,800	HGU5.50-SDS	5¼	(36) SDS ¼ x 2½	(24) SDS ¼ x 2½	9,460	13,160
4 Ply 1¾" LVL or 7" LVL												
9¼	HB7.12/9.25	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS7.25/10	3⅝	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	HGLTV7.12 (H=9.25)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS7.25/10	4	(46) 0.162 x 3½	(16) 0.162 x 3½	4,095	9,100
9½	HB7.12/9.5	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS7.25/10	3⅝	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	HGLTV7.12 (H=9.5)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS7.25/10	4	(46) 0.162 x 3½	(16) 0.162 x 3½	4,095	9,100
11¼	HB7.12/11.25	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS7.25/10	3⅝	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	HGLTV7.12 (H=11.25)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS7.25/12	4	(56) 0.162 x 3½	(20) 0.162 x 3½	5,040	9,400
11⅞	HB7.12/11.88	3½	(22) 0.162 x 3½	(10) 0.162 x 3½	2,075	5,815	HHUS7.25/10	3⅝	(30) 0.162 x 3½	(10) 0.162 x 3½	3,565	5,635
	EGQ7.25-SDS3 (H=11.875)	6	(28) SDS ¼ x 3	(12) SDS ¼ x 3	7,670	19,800	HGUS7.25/12	4	(56) 0.162 x 3½	(20) 0.162 x 3½	5,040	9,400
14	HGLTV7.12 (H=14)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS7.25/14	4	(66) 0.162 x 3½	(22) 0.162 x 3½	5,515	9,695
	EGQ7.25-SDS3 (H=14)	6	(28) SDS ¼ x 3	(12) SDS ¼ x 3	7,670	19,800	HGU7.25-SDS	5¼	(36) SDS ¼ x 2½	(24) SDS ¼ x 2½	9,460	13,160
16	HGLTV7.12 (H=16)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS7.25/14	4	(66) 0.162 x 3½	(22) 0.162 x 3½	5,515	9,695
	EGQ7.25-SDS3 (H=16)	6	(28) SDS ¼ x 3	(12) SDS ¼ x 3	7,670	19,800	HHGU7.25-SDS	5¼	(44) SDS ¼ x 2½	(28) SDS ¼ x 2½	14,145	17,345
18	HGLTV7.12 (H=18)	6	(18) 0.162 x 3½	(6) 0.162 x 3½	1,120	10,585	HGUS7.25/14	4	(66) 0.162 x 3½	(22) 0.162 x 3½	5,515	9,695
	EGQ7.25-SDS3 (H=18)	6	(28) SDS ¼ x 3	(12) SDS ¼ x 3	7,670	19,800	HHGU7.25-SDS	5¼	(44) SDS ¼ x 2½	(28) SDS ¼ x 2½	14,145	17,345

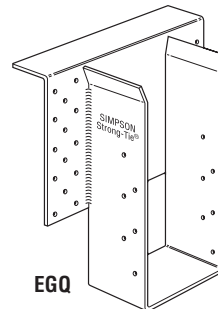
1. See notes on page 8.



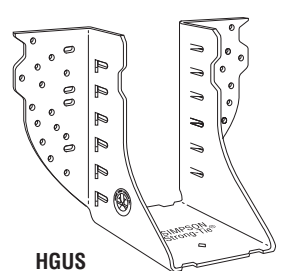
HHGU



HGLTV



EGQ



HGUS

HGU – 7 gauge
HHGU – 3 gauge
The GU hangers are a high-capacity girder hanger designed for situations where the header and joist are flush at top.

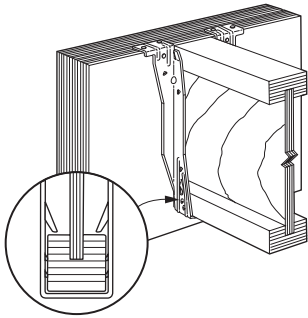
GLTV and HGLTV –
Top flange – 3 gauge
Stirrup – 7 gauge
This welded series provides high load carrying capacity and design flexibility and versatility. May be sloped, skewed and modified in other ways, and may be welded to steel I-beams. The GLTV may be used on 4x nailers.

EGQ – Top flange – 3 gauge
Stirrup – 7 gauge
A high capacity top flange connector designed for use with Structural Composite Lumber beams.

HGUS – 12 gauge
HHUS – 14 gauge
Features double shear nailing for high strength and lowest installed cost due to the reduced nail quantity requirement. Not suitable for use with I-joists.

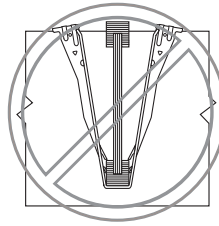
GENERAL CONNECTOR INSTALLATION

Top-Flange Hangers



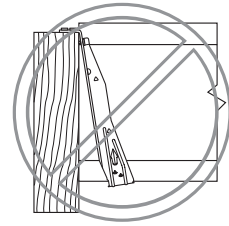
Flush Framing

Top flange configuration and thickness of top flange need to be considered for flush frame conditions.



Hanger Over-Spread

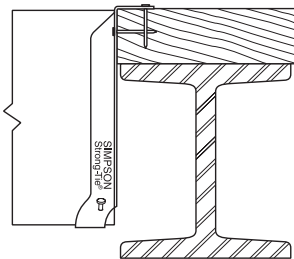
If the hanger is over-spread, it can raise the I-joist above the header and may cause uneven surfaces and squeaky floors.



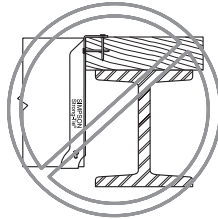
Hanger Not Plumb

A hanger "kicked out" from the header can cause uneven surfaces and squeaky floors.

Wood Nailers

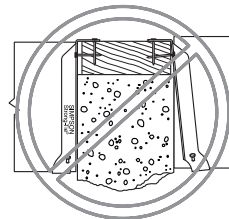


Correct Attachment



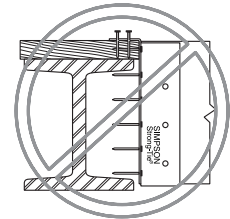
Nailer Too Wide

The loading may cause cross-grain bending. As a general rule, the maximum allowable overhang is 1/4", depending on nailer thickness.



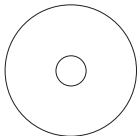
Nailer Too Narrow

Nailer should be full width.



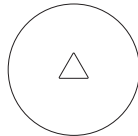
Nailer Too Thin and the wrong hanger for a nailer application.

Nail Hole Shapes



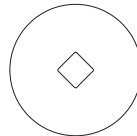
Round Holes

All holes must be filled except for the THAI adjustable height hanger. Refer to load tables for THAI nail quantities.



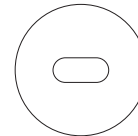
Triangle Holes

Provided on some products in addition to round holes. Round and triangle holes must be filled to achieve the published maximum load value.



Diamond Holes

Optional holes to temporarily secure connectors to the member during installation.

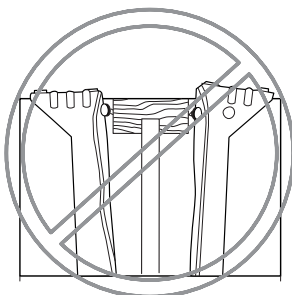


Obround Holes

Used to provide easier nailing access in tight locations. All holes must be filled except for the LSSU hanger when skewed. Refer to load tables for LSSU nail quantities.

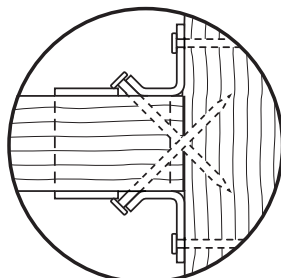
Toenailed I-Joist

Toe nailing causes squeaks and improper hanger installations. **Do not toe nail I-joists prior to installing either top flange or face-mount hangers.**



Double-Shear Nailing

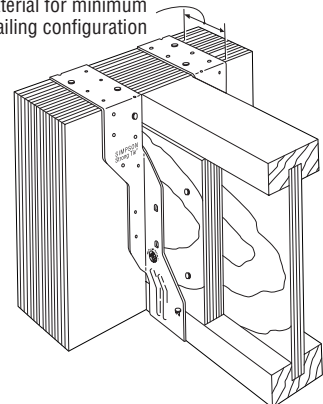
The nail is installed into joist and header, distributing load through two points on each nail for greater strength.



THAI Minimum Nailing

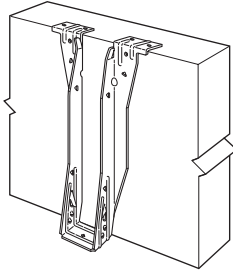
Minimum of 2 1/2" of top-flange material for minimum nailing configuration

Do not nail within 1/4" of multiple ply seam.

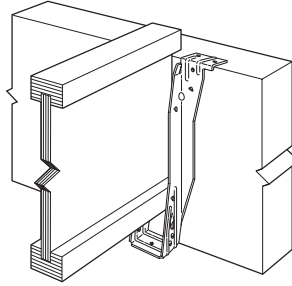


GENERAL CONNECTOR INSTALLATION

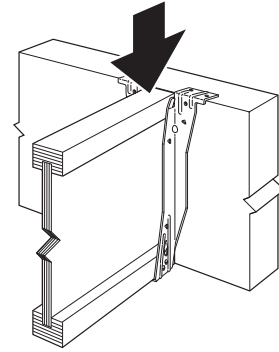
ITS Installation Sequence (IUS Similar)



STEP 1
Attach the ITS
to the header



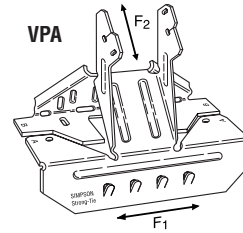
STEP 2
Slide the joist
downward into
the ITS until it
rests above the
Strong-Grip™
seat.



STEP 3
Firmly push
or snap
joist fully
into the seat
of the ITS.

VPA - Variable Pitch Connectors

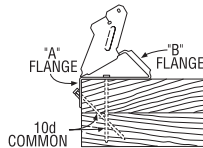
Joist Width	Model No.	Fasteners		Allowable Loads							
		Top Plate	Rafter	Uplift (160)		Download (100)		Lateral Load (160)			
				DF/SP	SPF	DF/SP	SPF	DF/SP		SPF	
1½	VPA2	(8) 0.148 x 3	(2) 0.148 x 1½	295	250	1,050	870	375	250	325	250
1¾	VPA25	(8) 0.148 x 3	(2) 0.148 x 1½	295	250	1,050	870	375	250	325	250
2¼	VPA2.1	(9) 0.148 x 3	(2) 0.148 x 1½	295	250	1,230	1,020	375	250	325	250
2¼ – 2½	VPA35	(9) 0.148 x 3	(2) 0.148 x 1½	295	250	1,230	1,020	375	250	325	250
2½	VPA3	(9) 0.148 x 3	(2) 0.148 x 1½	295	250	1,230	1,020	375	250	325	250
3½	VPA4	(11) 0.148 x 3	(2) 0.148 x 1½	295	250	1,230	1,020	375	250	325	250



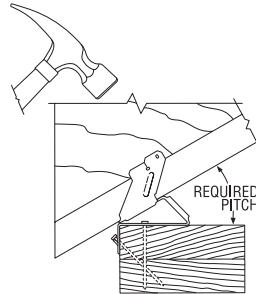
VPA – 18 gauge
This variable pitch
connector allows a sloped
beam to sit on a top plate
without having to notch,
birdmouth, bevel, or toe
nail. It also provides uplift
capacity. Adjustable from
3:12 to 12:12 pitch.

1. VPA's are not appropriate for applications that require more than 2" of bearing, such as intermediate supports.

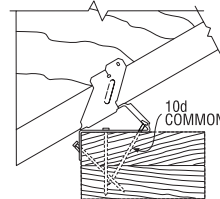
VPA Installation



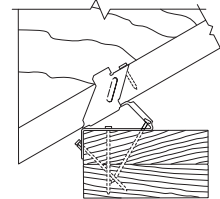
STEP 1
Install top nails and face
PAN nails in "A" flange
to outside wall top plate.



STEP 2
Seat rafter with a hammer,
adjusting "B" flange to the
required pitch.



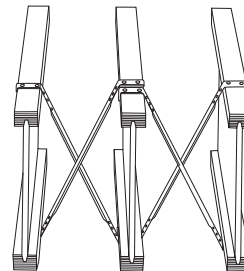
STEP 3
Install "B" flange nails
in the obround nail
holes, locking the pitch.



STEP 4
Bend tab with hammer and install nail
into tab nail hole. Hammer nail in at
approx. 45° angle to limit splitting.

TB - Tension Bridging

Joist Height	Joist Spacing (in.)								
	12	16	19.2	24	30	32	36	42	48
9½	TB20	TB27	TB27	TB30	TB36	TB36	TB42	TB48	TB54
11⅞	TB20	TB27	TB27	TB30	TB36	TB36	TB42	TB48	TB54
14	TB27	TB27	TB27	TB36	TB36	TB42	TB42	TB48	TB54
16	TB27	TB27	TB30	TB36	TB42	TB42	TB42	TB48	TB54
18	TB27	TB30	TB30	TB36	TB42	TB42	TB48	TB54	TB56
20	TB30	TB30	TB36	TB36	TB42	TB42	TB48	TB54	TB56



For all bridging avoid
contact between steel
members
(this may cause squeaks).

**Typical TB
Installation**

GENERAL CONNECTOR INSTALLATION

Alternate Hanger Solutions

Single Hangers:

Example: 16" PWI 40, 900 lb. reaction

Alternative A: Rotation Prevented By Lateral Support

Use IUS2.37/16 — no web stiffeners required (as noted in table)

Alternative B: Rotation Prevented By Web Stiffeners

Hanger height must be at least 60% of I-joist height.

Try IUS2.37/11.88 (H = 11 $\frac{1}{8}$). 16" \times 60% \geq 9.6" min.

Allowable load is 1,185 lb.

OK, web stiffeners required.

Alternative C: Rotation Prevented By Web Stiffeners

Try IUS2.37/9.5 (H = 9 $\frac{1}{2}$). Allowable load is 950 lb.

OK, web stiffeners and blocking near top are required since H < 9.6"

Double Hangers:

Example: Double 18" PWI 70 1,800 lb. reaction

Alternative A: Rotation Prevented By Lateral Support

Use MIU4.75/18 — no web stiffeners required (as noted in table)

Alternative B: Rotation Prevented By Web Stiffeners

Hanger height must be at least 60% of I-joist height.

Try MIU4.75/14 (H=14) 18 \times 60% = 10.8" min.

Allowable load is 3,170 lb.

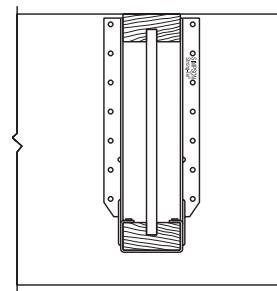
OK, web stiffeners required.

Alternative C: Rotation Prevented By Web Stiffeners

Try MIU4.75/9 (H = 9.03"). Allowable load is 2,305 lb.

OK, web stiffeners and blocking near top are required since H < 10.8"

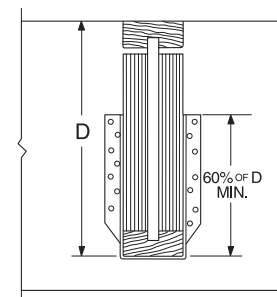
See Simpson Strong-Tie® *Wood Construction Connectors* catalog for other solutions.



Alternate A

Rotation Prevented By Lateral Flange Support

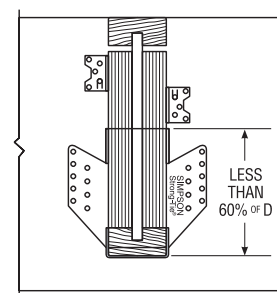
Sides of hanger laterally support the top flange of the I-joist. No web stiffeners required!



Alternate B

Rotation Prevented By Web Stiffeners

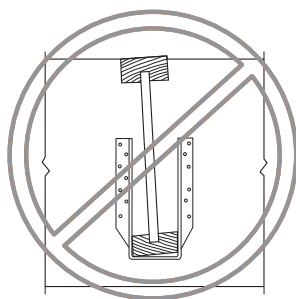
Hanger height should be at least 60% of the joist height.



Alternate C

Rotation Prevented by Web Stiffeners

If hanger height is less than 60% of the joist height, add clips or blocking near the top.



GENERAL CONNECTOR INSTALLATION

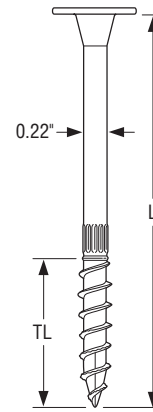
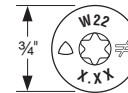
SDW Strong-Drive® Structural Wood Screws

INSTALLATION

- SDW screws install best with a low-speed ½" drill and a T-40 6-lobe bit. The matched bit included with the screws is recommended for best results.
- Screw heads that are countersunk flush to the wood surface are acceptable if the screw has not spun out.
- Individual screw locations may be adjusted up to 3" to avoid conflicts with other hardware or to avoid lumber defects.
- Predrilling is typically not required.

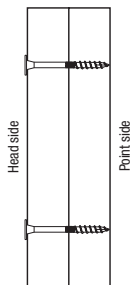
Screw Dimensions

Model No.	Nominal Screw Length (L) (in)	Thread Length (TL) (in)	Head Stamp Length
SDW22338	3¾	1⅞	3.37
SDW22500	5	1⅞	5.00
SDW22634	6¾	1⅞	6.75

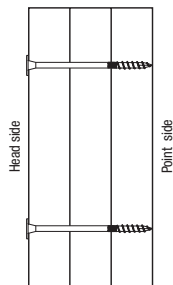


**SDW Strong-Drive®
Screw**

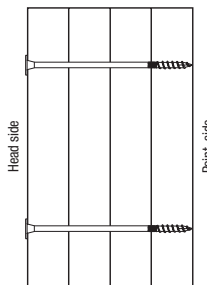
US Patents
5,897,280;
7,101,133 and
patent pending



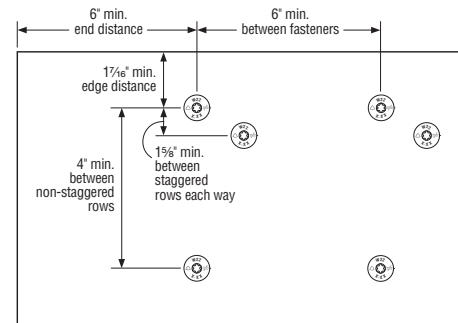
Assembly A-W
(2) - 1¾



Assembly B-W
(3) - 1¾



Assembly C-W
(4) - 1¾



Spacing Requirements

Sideloaded 1¾ Multi-Ply SCL Assemblies — Allowable Uniform Load Applied to Either Outside Member

Multiple Members		Nominal Screw Length (in)	Loaded Side	Structural Composite Lumber					
				SDW @ 12" o.c.		SDW @ 16" o.c.		SDW @ 24" o.c.	
Assembly	Components			2 Rows	3 Rows	2 Rows	3 Rows	2 Rows	3 Rows
A-W	2-ply SCL	3¾	Either	1,600	2,400	1,200	1,800	800	1,200
B-W	3-ply SCL	5	Head	1,200	1,800	900	1,350	600	900
			Point	900	1,350	675	1,015	450	675
C-W	4-ply SCL	6¾	Head	1,065	1,600	800	1,200	535	800
			Point	800	1,200	600	900	400	600

1. Each ply is assumed to carry same proportion of load.
2. Loads may be applied to the head side and point side concurrently provided neither published allowable load is exceeded.
(Example: a 3-ply assembly with a head side load of 1300 plf and point side load of 1000 plf may be fastened together with 3 rows of SDW @ 16" o.c.)
3. When hangers are installed on point side, hanger face fasteners must be a minimum of 3" long.
4. This table assumes an equivalent Specific Gravity of 0.50 or higher.
5. Loads in this table are based on the overall capacity of the Simpson Strong-Tie® SDW22 fasteners. The capacity of the multi-ply assembly must be checked by a qualified Designer.

Refer to the current *Wood Construction Connectors* catalog for General Notes, Warranty Information and other important information, including Terms and Conditions of Sale, Building Code Evaluation listings and Corrosion Resistance.

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CSG-PWC19 5/19 exp. 6/21

(800) 999-5099
strongtie.com