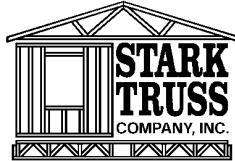


CONNECTOR SELECTION GUIDE

SIMPSON
Strong-Tie[®]

FOR USE WITH PRODUCTS
MANUFACTURED BY:



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**

DISTRIBUTED BY:

800-999-5099
www.strongtie.com

CSG-STARK06 1/06
exp. 1/08

CONNECTOR SELECTOR NOTES



General Notes

1. See current *Wood Construction Connectors* catalog for Important Information and General Notes section and for hanger models, joist sizes, and header situations not shown. See pages 10-12 for installation information.
2. Unless otherwise noted, loads listed address hanger/header/fastener limitations assuming header material is Douglas Fir-Larch, Southern Pine, or Spruce Pine Fir. Joist reaction should be checked by a qualified designer to ensure proper hanger selection.
3. Uplift loads have been increased by 33% for earthquake and wind loading. Reduce loads according to code for normal duration loading such as cantilever construction.
4. If hanger height is less than 60% of joist height, joist rotation may occur; see information below.
5. Top flange hanger configuration and thickness of top flange need to be considered for flush frame conditions, see page 10.
6. For this publication, carrying members are assumed to be at least 5½ inches tall. The horizontal thickness of the carrying member must be at least the length of nail being used or the hanger top flange dimension, whichever is greater. **Exception:** narrower carrying members may be used with face mount hangers but the horizontal thickness must be at least 1¾ inches for 10d nails; 2 inches for 16d nails. Clinch nails on back side.
7. THAI hangers in this publication are based on a “top flange” installation and require that the carrying member have a horizontal thickness of at least 2½ inches. Backer blocks are required when the header is an I-joist.
8. All nails shown are common nails unless otherwise noted.
9. I-joists that are used as headers require backer blocks. See Wood I-Joist Headers below for additional information.
10. **Multiple Members:** Multiple members should be adequately connected together to act as one unit.

Wood I-Joist Headers

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.

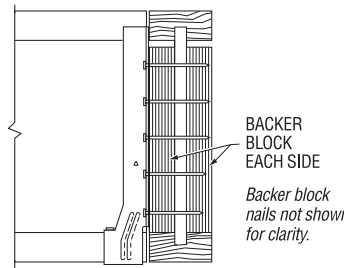
Use 10d x 1½" nails for all Top Flange hangers attached to an I-joist header. See table for allowable loads.

Model	I-Joist Header Flange Material ¹	
	DF/SCL	SPF
ITT	1050	755
MIT	1230	885
LBV	1495	1340
BA	1495	1495

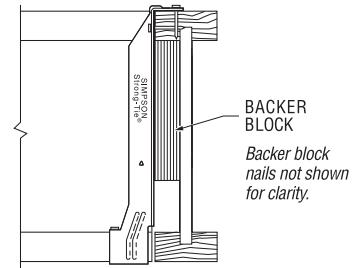
1. For flanges with thicknesses from 1¾" to 1¾", use 0.85 of the I-joist header load. For flanges with thicknesses from 1¾" to 1¾", use 0.75 of the I-joist header load.

Face Mount hangers using 16d nails with headers less than 2" wide horizontally but at least 1½" wide, apply a reduction factor of 0.75 to all table loads.

For face mount hangers using 10d nails with headers less than 1¾" wide horizontally but at least 1½" wide, apply a reduction factor of 0.85 to all table loads.



Face Mount



Top Flange

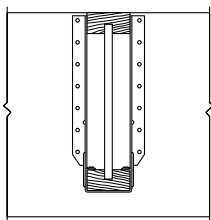
Sloped Joists: For sloped joist up to ¼:12, there is no reduction of load. For slopes greater than ¼:12 up to ½:12, see table.

Note: For joists sloped joist up to ¾:12, welded hangers can be used with a reduction of 15%.

Sloped Joist	
Model	Reduction
IUS, IUT, ITT, MIT, MIU, LBV, B, HB	10%
WP, HW	15%

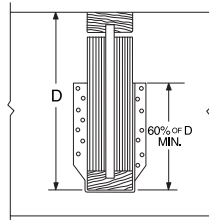
Prevent Rotation

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



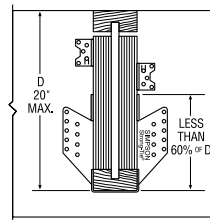
No Web Stiffener Installed

Hanger side flange supports joist top flange.



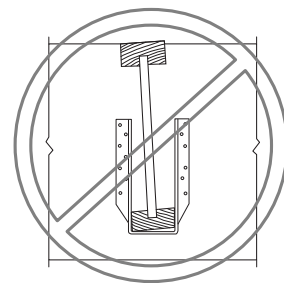
Web Stiffener Required

Hanger side flange should be at least 60% of joist depth or potential joist rotation must be addressed.



Rotation Resistance

If non-skewed hanger side flange is less than 60% of joist depth, attach staggered A34 framing anchors above the hanger.



No Web Stiffener Results in Rotation

Hanger side flange is below the joist top flange. No web stiffener results in rotation, unless restrained by other means.

HOW TO PICK A HANGER



Follow these simple steps to choose your hanger:

1	Find your joist size in this guide.
2	Choose your header type. Solid header or I-joist. <ul style="list-style-type: none">• Solid headers include solid sawn Douglas Fir or Southern Pine, or Spruce Pine Fir.• For I-joist header see page 2.
3	Locate your connector type in the table. <ul style="list-style-type: none">• Face mount, top flange, skewed, sloped, etc.
4	Select a hanger from the table.
5	Confirm that your joist load is less than the hanger load. If yes, you have successfully selected your hanger.
	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. You will need the following information: <ul style="list-style-type: none">• Download• Uplift• Header condition• Bearing length requirement

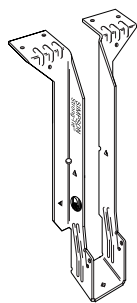
SINGLE STARK-I JOISTS



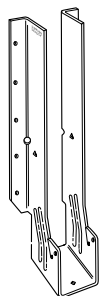
Joist Height	Top Flange						Snap-In						Face Mount								
	Model	B Dim	Fastener Type		Uplift (133)	Down Load		Model	B Dim	Fastener Type		Uplift (133)	Down Load		Model	B Dim	Fastener Type		Uplift (133)	Down Load	
			Header	Joist		DF	SPF			Header	Joist		DF	SPF			Header	Joist		DF	SPF
SI 40, 60																					
Joist Width = 2½"																					
9¼	ITT39.25	2	6-10d	2-10dx1½	245	1450	1200	No IUS for this depth						IUT310	2	8-10d	2-10dx1½	245	890	770	
9½	ITT39.5	2	6-10d	2-10dx1½	245	1450	1200	IUS2.56/9.5	2	8-10d	—	75	935	810	IUT310	2	8-10d	2-10dx1½	245	890	770
11¼	ITT311.25	2	6-10d	2-10dx1½	245	1450	1200	No IUS for this depth						IUT312	2	10-10d	2-10dx1½	245	1110	960	
11½	ITT311.88	2	6-10d	2-10dx1½	245	1450	1200	IUS2.56/11.88	2	10-10d	—	75	1170	1010	IUT312	2	10-10d	2-10dx1½	245	1110	960
14	ITT314	2	6-10d	2-10dx1½	245	1450	1200	IUS2.56/14	2	12-10d	—	75	1405	1210	IUT314	2	14-10d	2-10dx1½	245	1555	1345
16	ITT316	2	6-10d	2-10dx1½	245	1450	1200	IUS2.56/16	2	14-10d	—	75	1640	1415	IUT316	2	16-10d	2-10dx1½	245	1775	1535
SI 80																					
Joist Width = 3½"																					
11½	ITT411.88	2	6-10d	2-10dx1½	245	1450	1200	IUS3.56/11.88	2	12-10d	—	75	1405	1210	IUT412	2	10-10d	2-10dx1½	245	1110	960
14	ITT414	2	6-10d	2-10dx1½	245	1450	1200	IUS3.56/14	2	12-10d	—	75	1405	1210	IUT414	2	14-10d	2-10dx1½	245	1555	1345
16	ITT416	2	6-10d	2-10dx1½	245	1450	1200	IUS3.56/16	2	14-10d	—	75	1640	1415	IUT416	2	16-10d	2-10dx1½	245	1775	1535

Joist Height	45° Skew						Adjustable Height						Field Slope & Skew								
	Model	B Dim	Fastener Type		Uplift (133)	Down Load		Model	B Dim	Fastener Type		Uplift (133)	Down Load		Model	B Dim	Fastener Type		Uplift (133)	Down Load	
			Header	Joist		DF	SPF			Header	Joist		DF	SPF			Header	Joist		DF	SPF
SI 40, 60																					
Joist Width = 2½"																					
9¼	SUR/L310	2½	14-16d	6-10dx1½	720	1860	1610	THAI322	2¼	6-10d	2-10dx1½	—	1715	1590	LSSUH310	3½	14-16d	12-10dx1½	1150	1600	1385
9½	SUR/L310	2½	14-16d	6-10dx1½	720	1860	1610	THAI322	2¼	6-10d	2-10dx1½	—	1715	1590	LSSUH310	3½	14-16d	12-10dx1½	1150	1600	1385
11¼	SUR/L2.56/11	3	16-16d	2-10dx1½	145	2130	1535	THAI322	2¼	6-10d	2-10dx1½	—	1715	1590	LSSUH310	3½	14-16d	12-10dx1½	1150	1600	1385
11½	SUR/L2.56/11	3	16-16d	2-10dx1½	145	2130	1535	THAI322	2¼	6-10d	2-10dx1½	—	1715	1590	LSSUH310	3½	14-16d	12-10dx1½	1150	1600	1385
14	SUR/L314	2½	18-16d	8-10dx1½	960	2395	1795	THAI322	2¼	6-10d	2-10dx1½	—	1715	1590	LSSUH310	3½	14-16d	12-10dx1½	1150	1600	1385
16	SUR/L314	2½	18-16d	8-10dx1½	960	2395	1795	See Wood Construction Connectors Catalog for hanger selection.						See Wood Construction Connectors Catalog for hanger selection.							
SI 80																					
Joist Width = 3½"																					
11½	SUR/L410	2½	14-16d	6-16d	1065	1860	1610	THAI422	2¼	6-10d	2-10dx1½	—	1715	1590	LSSU410	3½	14-16d	12-10dx1½	1150	1625	1365
14	SUR/L414	2½	18-16d	8-16d	1420	2395	1795	THAI422	2¼	6-10d	2-10dx1½	—	1715	1590	LSSU410	3½	14-16d	12-10dx1½	1150	1625	1365
16	SUR/L414	2½	18-16d	8-16d	1420	2395	1795	See Wood Construction Connectors Catalog for hanger selection.						See Wood Construction Connectors Catalog for hanger selection.							

1. Shaded hangers require web stiffeners at joist ends. Web stiffeners may be required for non-shaded hangers by I-Joist manufacturer.
2. THAI hangers require 4 top and 2 face nails installed.



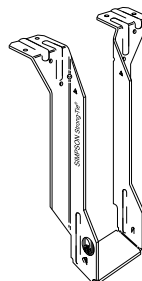
ITT



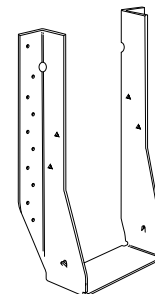
IUT



IUS



MIT



MIU

ITT – 18 gauge
IUT – 18 gauge
 The ITT and IUT bend-tabs help reduce squeaks. Features uplift capacity and extended seat design (to allow installation of slightly undercut joists).

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

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).

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

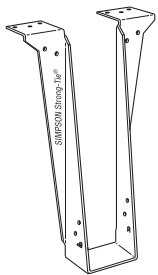
DOUBLE STARK-I JOISTS



Joist Height	Top Flange						Face Mount						45° Skew								
	Model	B Dim	Fastener Type		Uplift (133)	Down Load	Model	B Dim	Fastener Type		Uplift (133)	Down Load	Model ⁴	B Dim	Fastener Type		Uplift (133)	Down Load			
			Header	Joist					Header	Joist					Header	Joist			Header	Joist	
Double SI 40, 60																					
Joist Width = 5"																					
9½	LBV39.25-2	2½	6-16d	2-10dx1½	240	2910	1830	MIU5.12/9	2½	16-16d	2-10dx1½	240	2270	1970	HSUR/L5.12/9	2½	12-16d	2-10dx1½	145	1655	1440
9½	MIT39.5-2	2½	8-16d	2-10dx1½	240	2400	1665	MIU5.12/9	2½	16-16d	2-10dx1½	240	2270	1970	HSUR/L5.12/9	2½	12-16d	2-10dx1½	145	1655	1440
11¼	LBV311.25-2	2½	6-16d	2-10dx1½	240	2910	1830	MIU5.12/11	2½	20-16d	2-10dx1½	240	2840	2460	HSUR/L5.12/11	2½	16-16d	2-10dx1½	145	2210	1920
11¾	MIT311.88-2	2½	8-16d	2-10dx1½	240	2400	1665	MIU5.12/11	2½	20-16d	2-10dx1½	240	2840	2460	HSUR/L5.12/11	2½	16-16d	2-10dx1½	145	2210	1920
14	MIT314-2	2½	8-16d	2-10dx1½	240	2400	1665	MIU5.12/14	2½	22-16d	2-10dx1½	240	3125	2705	HSUR/L5.12/14	2½	20-16d	2-10dx1½	145	2760	2400
16	MIT5.12/16	2½	8-16d	2-10dx1½	240	2400	1665	MIU5.12/16	2½	24-16d	2-10dx1½	240	3410	2950	HSUR/L5.12/16	2½	24-16d	2-10dx1½	145	3050	2410
Double SI 80																					
Joist Width = 7"																					
9½	B7.12/9.5	2½	14-16d	6-16d	1010	3800	2650	HU410-2	2½	18-16d	8-16d	1430	2410	2090	HU410-2X ⁴	2½	18-16d	8-16d	1070	2410	2090
11¾	B7.12/11.88	2½	14-16d	6-16d	1010	3800	2650	HU412-2	2½	22-16d	8-16d	1430	2950	2550	HU412-2X ⁴	2½	22-16d	8-16d	1070	2950	2550
14	B7.12/14	2½	14-16d	6-16d	1010	3800	2650	HU414-2	2½	26-16d	12-16d	2145	3485	3015	HU414-2X ⁴	2½	26-16d	12-16d	1610	3485	3015
16	B7.12/16	2½	14-16d	6-16d	1010	3800	2650	HU414-2	2½	26-16d	12-16d	2145	3485	3015	HU414-2X ⁴	2½	26-16d	12-16d	1610	3485	3015

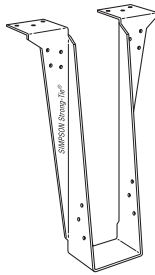
Joist Height	Adjustable Height						Field Slope & Skew							
	Model	B Dim	Fastener Type		Uplift (133)	Down Load	Model	B Dim	Fastener Type		Uplift (133)	Down Load		
			Header	Joist					Header	Joist				
Double SI 40, 60														
Joist Width = 5"														
9¼	THAI-2 ²	2½	6-10d	2-10dx1½	—	2020	2020	LSU5.12 ³	3½	24-16d	16-10dx1½	885	1790	1550
9½	THAI-2 ²	2½	6-10d	2-10dx1½	—	2020	2020	LSU5.12 ³	3½	24-16d	16-10dx1½	885	1790	1550
11¼	THAI-2 ²	2½	6-10d	2-10dx1½	—	2020	2020	LSU5.12 ³	3½	24-16d	16-10dx1½	885	1790	1550
11¾	THAI-2 ²	2½	6-10d	2-10dx1½	—	2020	2020	LSU5.12 ³	3½	24-16d	16-10dx1½	885	1790	1550
14	THAI-2 ²	2½	6-10d	2-10dx1½	—	2020	2020	LSU5.12 ³	3½	24-16d	16-10dx1½	885	1790	1550
16	See Wood Construction Connectors Catalog for hanger selection.						See Wood Construction Connectors Catalog for hanger selection.							
Double SI 80														
Joist Width = 7"														
See Wood Construction Connectors Catalog for hanger selection.						See Wood Construction Connectors Catalog for hanger selection.								

1. Shaded hangers require web stiffeners at joist ends. Web stiffeners may be required for non-shaded hangers by I-Joist manufacturer.
2. THAI hangers require a minimum of 4 top and 2 face nails installed. THAI-2 must be special ordered, specify hanger seat width between 3½" and 5½".
3. LSUs are field sloped only. Skew option must be factory-ordered.
4. Skewed option must be special ordered. Specify skew angle and direction (i.e. HU410-2X, SKR45).



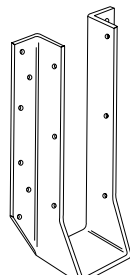
LBV

LBV – 14 gauge
The LBV is designed especially for use with multiple ply headers 1½" to 1¾" thick, and may be used for weld-on applications.



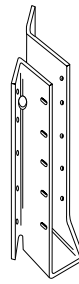
B

B – 12 gauge
The B series offers versatility for I-joists and SCL lumber. Enhanced load capacity widens the range of applications for these hangers.



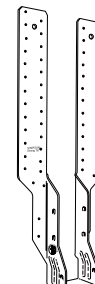
HU

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.



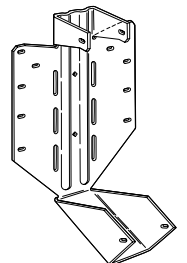
SUL

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.

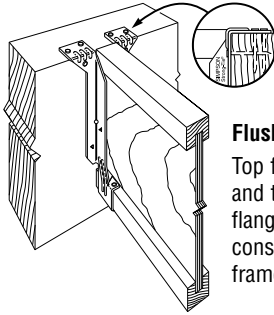


LSSU

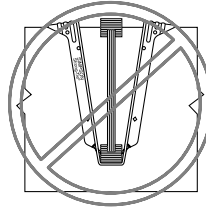
LSSU, LSSUI – 18 gauge
LSSU210-2, LSSU410 and **LSSU310** – 16 gauge
LSU – 14 gauge
LSSU models provide uplift capacity and can be field sloped and/or skewed to 45°. Web stiffeners required when used with I-joists.

GENERAL CONNECTOR INSTALLATION

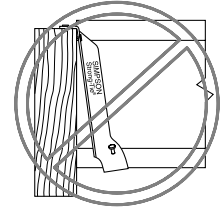
Top Flange Hangers



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

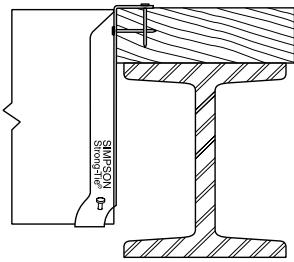


Hanger Over-Spread
If the hanger is over-spread, it can raise the I-Joist above the header and may cause uneven surfaces and squeaky floors.

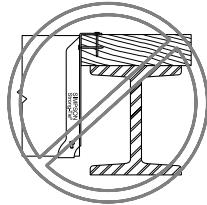


Hanger Not Plumb
A hanger "kicked out" from the header can cause uneven surfaces and squeaky floors.

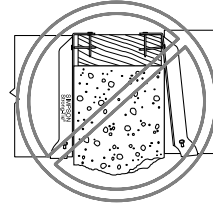
Wood Nailers



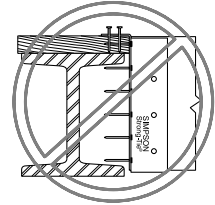
Correct Attachment



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.

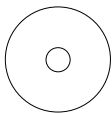


Nailer Too Narrow
A maximum mismatch of 1/8" for normal installations is acceptable.

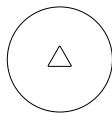


Nailer Too Thin and the wrong hanger for a nailer application.

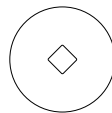
Nail Hole Shapes



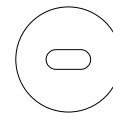
Round Holes
All holes must be filled except for the THAI adjustable height hanger. Refer to load tables for THAI nail quantities.



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.

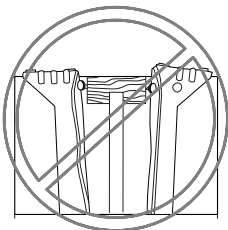


Diamond Holes
Optional holes to temporarily secure connectors to the member during installation.



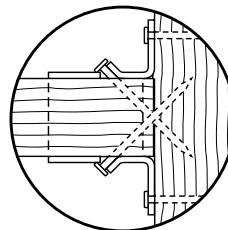
Obround Holes
Used to provide easier nailing access in tight locations. All holes must be filled except for the LSSU hanger when skewed. Refer to load tables for LSSU nail quantities.

Toe Nailed I-Joist



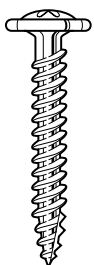
Toe nailing causes squeaks and improper hanger installations. **Do not toe nail I-joists prior to installing either top flange or face mount hangers.**

Double Shear Nailing



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

Alternate Joist Installation with NO JOIST NAILS

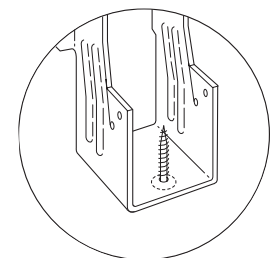
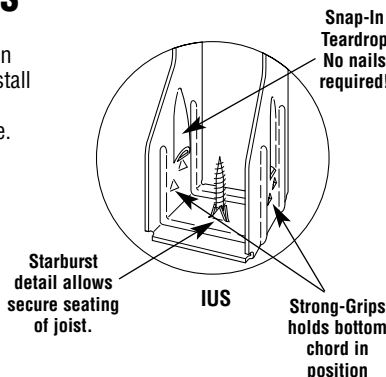


SD8x1.25
(Actual Size)

Install Simpson's SD8x1.25 screw through the existing hole in the bottom of the seat. It is not necessary to bend tabs or install nails through tabs in IUT and ITT hangers. This installation works for I-joists with 1 5/16" or greater depth of bottom flange. This application is not recommended for seat widths > 2 3/4".

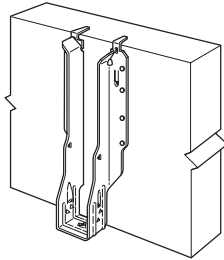
Model No.	Joist Fasteners	Uplift (133)			
		Joist Widths			
		1 1/2 - 1 3/4		2 - 2 1/2	
		DF	SPF	DF	SPF
IUS	Simpson SD8x1.25	150	130	95	95
IUT	Tapping Screw ¹	130	110	65	65
ITT					

1. Any #8x1.25 self-drilling screw may be used.

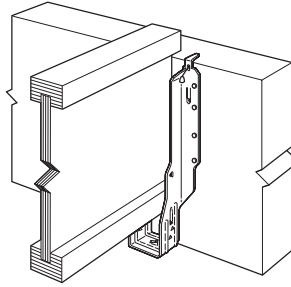


GENERAL CONNECTOR INSTALLATION

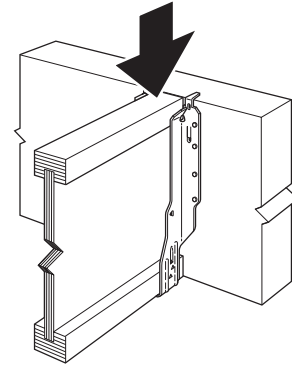
IUS Installation Sequence



STEP 1
Attach the IUS to the header

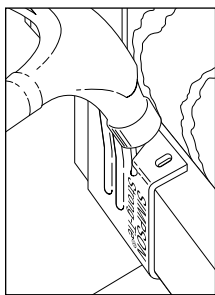


STEP 2
Slide the I-joist into the IUS until it rests above the large teardrop.

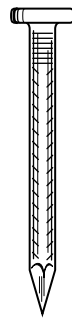


STEP 3
Firmly push or snap I-joist fully into the seat of the IUS.

IUT & ITT Tab Installation (VPA Similar)

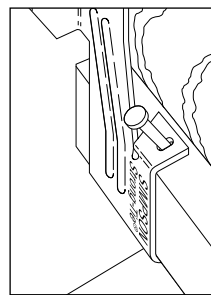


Bend the tab with a hammer.

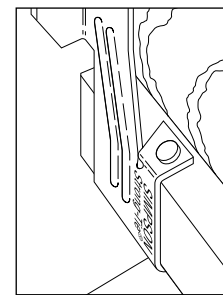


ACTUAL SIZE

Use a 10d x 1 1/2" nail (Simpson's N10 nail shown).

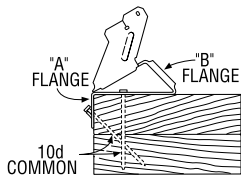


Hammer the nail in at approx. 45° angle to limit splitting.

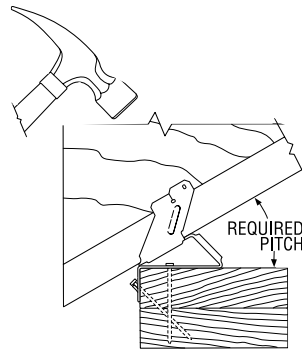


The tab is now correctly installed.

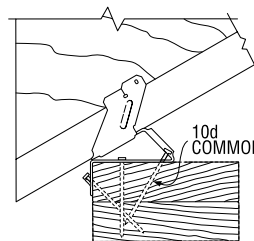
VPA Installation



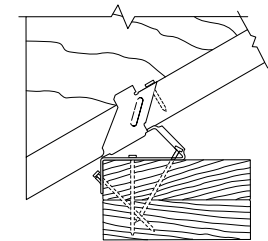
Step 1
Install top nails and face PAN nails in "A" flange to outside wall top plate.



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

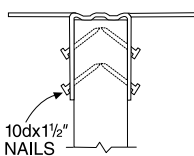


Step 3
Install "B" flange nails in the obround nail holes, locking the pitch.

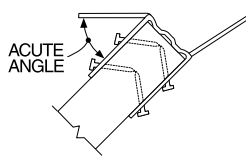


Step 4
Bend tab with hammer and install nail into tab nail hole. Hammer nail in at approx. 45° angle to limit splitting.

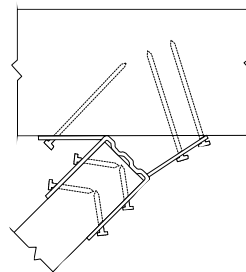
LSSU Installation



1. Nail hanger to slope-cut joist, installing seat nail first. No bevel necessary for skewed installation.



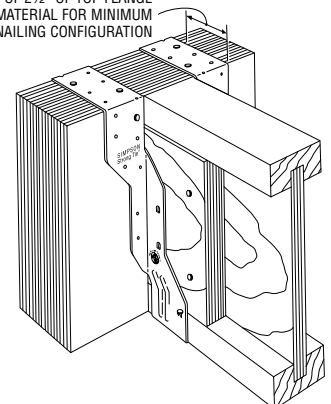
2. Skew flange to form acute angle. Bend other flange back. Bend along the centerline of slots. Bend one time only.



3. Attach hanger to header, acute angle first. Install nails at an angle.

THAI Minimum Nailing

MINIMUM OF 2 1/2" OF TOP FLANGE MATERIAL FOR MINIMUM NAILING CONFIGURATION

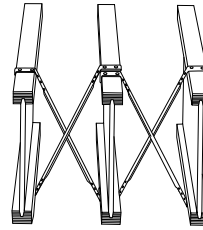


GENERAL CONNECTOR INSTALLATION



TB - Tension Bridging

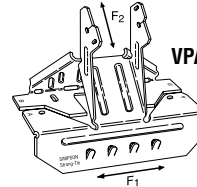
Joist Height	Joist Spacing (Inches)								
	12	16	19.2	24	30	32	36	42	48
9½	TB20	TB27	TB27	TB30	TB36	TB36	TB42	TB48	TB54
11⅞	TB20	TB27	TB27	TB30	TB36	TB36	TB42	TB48	TB54
14	TB27	TB27	TB27	TB36	TB36	TB42	TB42	TB48	TB54
16	TB27	TB27	TB30	TB36	TB42	TB42	TB42	TB48	TB54



Typical TB Installation

VPA - Variable Pitch Connectors

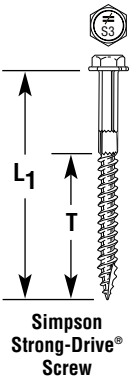
Joist Width	Model No.	Fasteners		Allowable Loads							
		Top Plate	Rafter	Uplift (133)		Download (100)		Lateral Load (133)			
				DF/SP	SPF	DF/SP	SPF	DF/SP		SPF	
				F ₁	F ₂	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂
2½	VPA3	9-10d	2-10dx1½	245	210	1230	1020	375	245	325	210
3½	VPA4	11-10d	2-10dx1½	245	210	1230	1020	375	245	325	210



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.

STRONG-DRIVE® SCREWS INSTALLATION FOR LVL



INSTALLATION

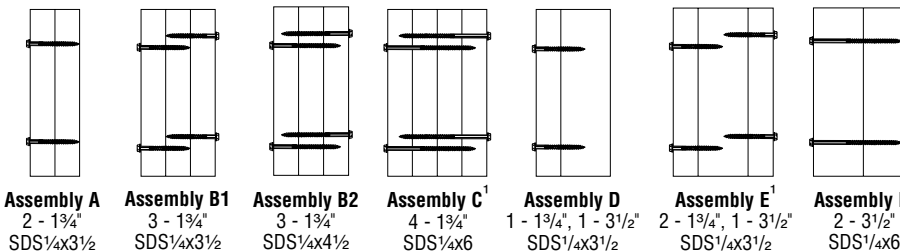
- Hex washer head allows for easy driving.
- Built-in reamer and type 17 tip means no pre-drilling required.
- See illustrations below for SDS positioning on different assemblies.
- Install with high-torque, low-speed drill (5 amp+).
- Do not over-drive the SDS screws.

Model	L ₁	T	Head Stamp
SDS¼x3½	3½	2¼	S3.5
SDS¼x4½	4½	2¾	S4.5
SDS¼x6	6	3¼	S6

DESIGN

- Allowable load values are derived from testing based on ASTM D-1761. The Designer shall apply adjustment factors per 2001 NDS. Loads shown are C_D = 1.0. Increase as allowed per code to a maximum C_D = 1.33.
- This document uses Douglas Fir-Larch values (G = 0.5), as per the LVL manufacturer's instructions.
- Loads shown are at 100%. Increase as allowed by code.
- The designer shall specify the location of all screws (*stagger screws on opposite faces*). Minimum recommended spacing—Wide Face: end distance 4", edge distance 1½", spacing parallel to grain 4", spacing perpendicular to grain 2".
- Uniform loads in the table below are based on the capacity of the fasteners to transfer loads between plies. The capacity of the LVL beam may be less and should be checked by a qualified designer or with the manufacturer's literature.

ASSEMBLIES A-F SHOW LAMINATED VENEER LUMBER (LVL)



Assembly A 2 - 1¾" SDS¼x3½
Assembly B1 3 - 1¾" SDS¼x3½
Assembly B2 3 - 1¾" SDS¼x4½
Assembly C¹ 4 - 1¾" SDS¼x6
Assembly D 1 - 1¾", 1 - 3½" SDS¼x3½
Assembly E¹ 2 - 1¾", 1 - 3½" SDS¼x3½
Assembly F¹ 2 - 3½" SDS¼x6

MAXIMUM ALLOWABLE UNIFORM LOAD (LBS PER LINEAL FT)							
Multiple Members		SDS Screws, 12" OC		SDS Screws, 16" OC		SDS Screws, 24" OC	
Assembly	Components	2 Rows	3 Rows	2 Rows	3 Rows	2 Rows	3 Rows
A	2 pieces (all 1¾")	960	1440	720	1080	480	720
B1	3 pieces (all 1¾")	720	1080	540	810	360	540
B2	3 pieces (all 1¾")	1380	2070	1035	1550	690	1035
C	4 pieces (all 1¾")	1225	1840	920	1380	615	920
D	2 pieces (1¾" - 3½")	720	1080	540	810	360	540
E	3 pieces (1¾" - 3½" - 1¾")	640	960	480	720	320	480
F	2 pieces (3½" - 3½")	960	1440	720	1080	480	720

1. If 7" wide beams are not equally loaded on each side, the plf load from the lesser side should be at least 25% of the opposite side.
2. Quantity and spacing of screws in table are for each screw head side of the assembly as shown in the Assembly figures above.
3. The design professional shall ensure that adequate lateral bracing is provided to prevent displacement of the beam due to the torsion created by the structural members framing into the side of the beam assembly.

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.

Home Office
4120 Dublin Blvd., Ste 400
Dublin, CA 94568
FAX: 925/833-1496

Northwest USA
5151 S. Airport Way
Stockton, CA 95206
FAX: 209/234-3868

Southwest USA
260 N. Palm St
Brea, CA 92821
FAX: 714/871-9167

Southeast USA
2221 Country Lane
McKinney, TX 75069
FAX: 972/542-5379

Northeast USA
2600 International St
Columbus, OH 43228
FAX: 614/876-0636

Quik Drive Factory
436 Calvert Drive
Gallatin, TN 37066
FAX: 615/451-9806

Eastern Canada
5 Kenview Blvd.
Brampton, ON L6T 5G5
Canada
FAX: 905/458-7274

Western Canada
11476 Kingston St.
Maple Ridge, BC V2X 0Y5
Canada
FAX: 604/465-0297

Warehouses:
Enfield, CT; Jacksonville, FL;
Kent, WA; Langley, BC

800-999-5099
www.strongtie.com

© Copyright 2006
Simpson Strong-Tie Company, Inc.

Printed in the USA

CSG-STARK06 1/06
exp. 1/08