CONNECTOR SELECTION GUIDE

SIMPSON Strong-Tie®

FOR USE WITH PRODUCTS MANUFACTURED BY:

INTERNATIONAL BEAMS

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 Canadian ***Wood Construction Connectors*** catalogue for detailed hanger information.

LIMIT STATES DESIGN

800-999-5099
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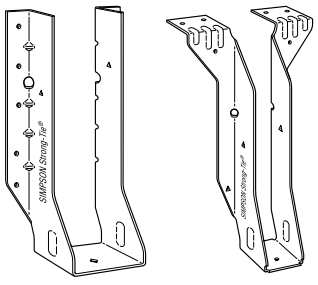
SINGLE I-JOISTS – Canadian/Factored Resistance (lbs.)

Joist Height	Top Flange Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF	Snap In Face Mount Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF	Face Mount Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF
IB 400 and IB 600								**Joist Width = 2½"**													
9½	LT259	2	6-10d	1-#8x1¼ WS	100	2560	1725	IUS2.56/9.5	2	8-10d	—	105	2385	1700	LF259	2	10-10d	1-#8x1¼ WS	100	2525	2155
11⅞	LT251188	2	6-10d	1-#8x1¼ WS	100	2560	1725	IUS2.56/11.88	2	10-10d	—	105	2565	1835	LF2511	2	12-10d	1-#8x1¼ WS	100	2880	2270
14	LT2514	2	6-10d	1-#8x1¼ WS	100	2560	1725	IUS2.56/14	2	12-10d	—	105	2565	1835	LF2514	2	14-10d	1-#8x1¼ WS	100	3235	2385
16	LT2516	2	6-10d	1-#8x1¼ WS	100	2560	1725	IUS2.56/16	2	14-10d	—	105	2725	1950	MIU2.56/16	2½	24-16d	2-10dx1½	270	4930	3485
IB 800[4] and IB 900								**Joist Width = 3½"**													
11⅞	LT351188	2	6-10d	2-#8x1¼ WS	100	2560	1725	IUS3.56/11.88	2	12-10d	—	105	2375	1695	LF3511	2	12-10d	2-#8x1¼ WS	100	2880	2270
14	LT3514	2	6-10d	2-#8x1¼ WS	100	2560	1725	IUS3.56/14	2	12-10d	—	105	2375	1695	LF3514	2	14-10d	2-#8x1¼ WS	100	3235	2385
16	LT3516	2	6-10d	2-#8x1¼ WS	100	2560	1725	IUS3.56/16	2	14-10d	—	105	2375	1695	MIU3.56/16	2½	24-16d	2-10dx1½	270	4930	3485
18	MIT418	2½	8-16d	2-10dx1½	380	3480	2415	No IUS for this depth.							MIU3.56/18	2½	26-16d	2-10dx1½	270	4930	3485
20	MIT420	2½	8-16d	2-10dx1½	380	3480	2415								MIU3.56/20	2½	28-16d	2-10dx1½	270	4930	3485

Joist Height	45º Skew Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF	Adjustable Height Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF	Field Slope and Skew Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF
IB 400 and IB 600								**Joist Width = 2½"**													
9½	SUR/L2.56/9	3³⁄₁₆	14-16d	2-10dx1½	385	3945	2780	THAI322[2]	2¼	6-10d	2-10dx1½	—	2740	2075	LSSUH310	3½	14-16d	12-10dx1½	1220	2620	1850
11⅞	SUR/L2.56/11	3³⁄₁₆	16-16d	2-10dx1½	385	3945	2780	THAI322[2]	2¼	6-10d	2-10dx1½	—	2740	2075	LSSUH310	3½	14-16d	12-10dx1½	1220	2620	1850
14	SUR/L2.56/14	3³⁄₁₆	18-16d	2-10dx1½	385	3945	2780	THAI322[2]	2¼	6-10d	2-10dx1½	—	2740	2075	LSSUH310	3½	14-16d	12-10dx1½	1220	2620	1850
16	SUR/L2.56/14	3³⁄₁₆	18-16d	2-10dx1½	385	3945	2780	See current *Canadian Limit States* catalog for hanger selection.							See current *Canadian Limit States* catalog for hanger selection.						
IB 800[4] and IB 900								**Joist Width = 3½"**													
11⅞	SUR/L410	2⅝	14-16d	6-16d	1395	4065	2875	THAI422[2]	2¼	6-10d	2-10dx1½	—	2740	2075	LSSU410	3½	14-16d	12-10dx1½	1220	3055	2160
14	SUR/L414	2½	18-16d	8-16d	1555	4095	2895	THAI422[2]	2¼	6-10d	2-10dx1½	—	2740	2075	LSSU410	3½	14-16d	12-10dx1½	1220	3055	2160
16	SUR/L414	2½	18-16d	8-16d	1555	4095	2895	See current *Canadian Limit States* catalogue for hanger selection.							See current *Canadian Limit States* catalogue for hanger selection.						
18	SUR/L414	2½	18-16d	8-16d	1555	4095	2895														
20	SUR/L414	2½	18-16d	8-16d	1555	4095	2895														

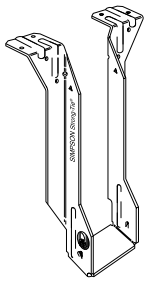
1. Shaded hangers require web stiffeners at joist ends. Web stiffeners may be required for non-shaded hangers by others.
2. THAI hangers require a minimum of 4 top and 2 face nails installed.
3. The B Dim is the depth of the hanger seat.
4. Joist types may not be available in all depths shown on table, check with manufacturer.

Nail Callout	Specified Nail
8d	2½" common wire
10d	3" common wire
16d	3½" common wire

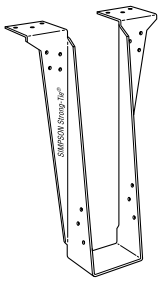


LF **LT**

IUS



MIT



B

LF – 18 gauge
LT – 18 gauge
The LF and LT series feature fast and easy installation. No web stiffeners required and only one screw secures joist in hanger.

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.

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.

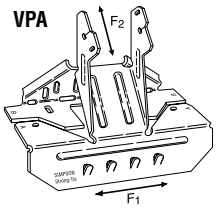
DOUBLE I-JOISTS – Canadian/Factored Resistance (lbs.)

Joist Height	Top Flange Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF	Face Mount Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF	45° Skew Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF
Double IB 400 and IB 600																					
											Joist Width = 5"										
9½	MIT39.5-2	2½	8-16d	2-10dx1½	380	3480	2415	MIU5.12/9	2½	16-16d	2-10dx1½	270	4550	3215	HSUR/L5.12/9	2 13/16	12-16d	2-10dx1½	195	2995	2350
11⅞	MIT311.88-2	2½	8-16d	2-10dx1½	380	3480	2415	MIU5.12/11	2½	20-16d	2-10dx1½	270	4550	3215	HSUR/L5.12/11	2 13/16	16-16d	2-10dx1½	195	4195	2965
14	MIT314-2	2½	8-16d	2-10dx1½	380	3480	2415	MIU5.12/14	2½	22-16d	2-10dx1½	270	4930	3485	HSUR/L5.12/14	2 13/16	20-16d	2-10dx1½	195	4195	2965
16	MIT5.12/16	2½	8-16d	2-10dx1½	380	3480	2415	MIU5.12/16	2½	24-16d	2-10dx1½	270	4930	3485	HSUR/L5.12/16	2 13/16	24-16d	2-10dx1½	195	4195	2965
Double IB 800[6] and IB 900																					
											Joist Width = 7"										
11⅞	B7.12/11.88	2½	14-16d	6-16d	1170	5940	3910	HU412-2	2½	22-16d	8-16d	1865	5780	4670	HU412-2X[4]	2½	22-16d	8-16d	1400	3755	3035
14	B7.12/14	2½	14-16d	6-16d	1170	5940	3910	HU414-2	2½	26-16d	12-16d	2685	7025	5780	HU414-2X[4]	2½	26-16d	12-16d	2010	4565	3755
16	B7.12/16	2½	14-16d	6-16d	1170	5940	3910	HU414-2	2½	26-16d	12-16d	2685	7025	5780	HU414-2X[4]	2½	26-16d	12-16d	2010	4565	3755
18	B7.12/18	2½	14-16d	6-16d	1170	5940	3910	HU414-2	2½	26-16d	12-16d	2685	7025	5780	HU414-2X[4]	2½	26-16d	12-16d	2010	4565	3755
20	B7.12/20	2½	14-16d	6-16d	1170	5940	3910	HU414-2	2½	26-16d	12-16d	2685	7025	5780	HU414-2X[4]	2½	26-16d	12-16d	2010	4565	3755

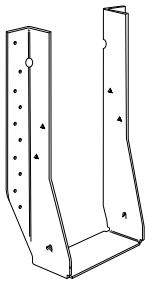
Joist Height	Adjustable Height Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF	Field Slope and Skew Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Download DF	Download SPF
Double IB 400 and IB 600														
						Joist Width = 5"								
9½	THAI-2[2]	2½	6-10d	2-10dx1½	—	2935	2935	LSU5.12[3]	3½	24-16d	16-10dx1½	910	2600	1835
11⅞	THAI-2[2]	2½	6-10d	2-10dx1½	—	2935	2935	LSU5.12[3]	3½	24-16d	16-10dx1½	910	2600	1835
14	THAI-2[2]	2½	6-10d	2-10dx1½	—	2935	2935	LSU5.12[3]	3½	24-16d	16-10dx1½	910	2600	1835
16	See current *Canadian Limit States* catalogue for hanger selection.							See current *Canadian Limit States* catalogue for hanger selection.						
Double IB 800[6] and IB 900						Joist Width = 7"								
	See current *Canadian Limit States* catalogue for hanger selection.							See current *Canadian Limit States* catalogue for hanger selection.						

1. Shaded hangers require web stiffeners at joist ends Web stiffeners may be required for non-shaded hangers by joist manufacturer.
2. THAI hangers require a minimum of 4 top and 2 face nails installed. THAI-2 must be special ordered, specify seat width between 3⅛" and 5 5/16"
3. LSU is field slope only. Skewed option must be factory ordered.
4. Skewed option must be special ordered. Specify skew angle and direction (i.e. HU414-2X, SKR 45°).
5. The B Dim is the depth of the hanger seat.
6. Joist types may not be available in all depths shown on table, check with manufacturer.

Model	B Dim	Fastener Type Header	Fastener Type Joist	Uplift (115)	Down Load DF	Down Load SPF
IB 400 and IB 600			Joist Width = 2½″			
VPA3	2½	9-10d	2-10dx1½	390	1785	1785
IB 800 and IB 900			Joist Width = 3½″			
VPA4	2½	11-10d	2-10dx1½	390	1785	1785

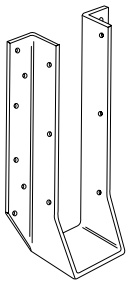


VPA – 18 gauge
This variable pitch connector allows a sloped beam to sit on a top plate without having to notch, birdmouth, bevel, or toe nail. It also provides uplift capacity. Adjustable from 3:12 to 12:12 pitch.



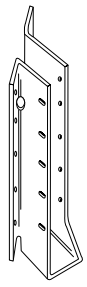
MIU

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



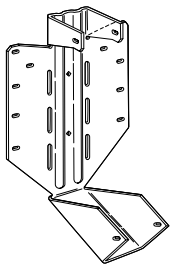
HU

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.



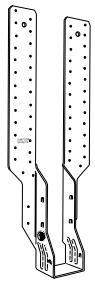
SUL

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. Web stiffeners required when used with I-joists.



LSSU

LSSUH310 and LSSU410 – 16 gauge
LSU5.12 – 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 .



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.

GENERAL CONNECTOR INSTALLATION

General Notes

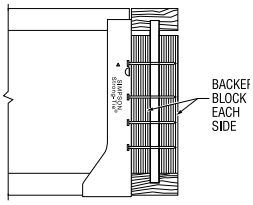
1. See current Canadian Wood Construction Connectors catalogue for Important Information and General Notes sections and for hanger models, joist sizes, and header situations not shown.
2. Loads listed address hanger/header/fastener limitations assuming header material is Douglas Fir-Larch or Spruce Pine Fir. For LVL headers made primarily of Douglas Fir/Southern Pine, use the values found in the DF column. For LVL headers made primarily from Spruce Pine Fir or similar less dense veneers, use the values found in the SPF column. Loads are in pounds. Joist reaction should be checked by a qualified designer to ensure proper hanger selection.
3. Factored uplift resistances have been increased by 15% for earthquake and wind loading with no further increase allowed. Reduce loads according to code for normal duration loading such as cantilever construction.
4. 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 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.
5. 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.
6. All nails shown are common nails unless otherwise noted.

I-Joist Headers

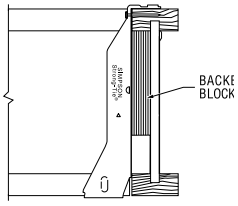
I-Joist Headers: When supporting one I-joist from another, backer blocks must be used. Backer blocks are to be made from plywood, OSB, or dimension lumber. The thickness of a backer block should be the same thickness as the void in the side of the I-joist and a minimum of 12" wide. Attach with 10-10d 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. Use 10dx1½" nails for all Top Flange hangers attached to an I-joist header. See table for factored resistance.

For face mount hangers using 10d nails with headers less than 1¾" wide horizontally but at least 1½" wide, apply a reduction factor of 0.77 to all table loads.

Model	I-Joist Header Flange Material
	SPF
LT	1695
MIT	1900
LBV	2200
BA	2420

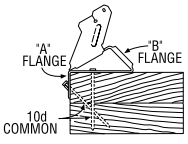


Face Mount

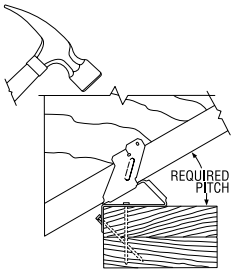


Top Flange

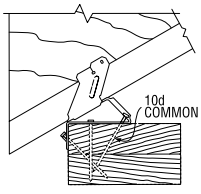
VPA Installation



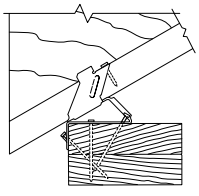
STEP 1
Install top nails and face PAN nails in "A" flange to outside wall top plate.



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

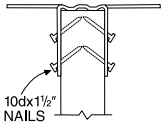


STEP 3
Install "B" flange nails in the obround nail holes, locking the pitch.

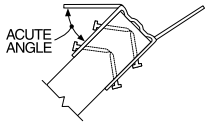


STEP 4
Bend tab with hammer and install nail into tab nail hole. Hammer nail in at approx. 45° angle to limit splitting.

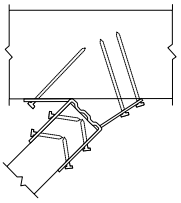
LSSU Installation



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

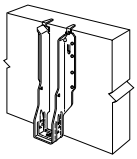


2. Skew flange to form acute angle. Bend other flange back. Bend along the centerline of slots. Bend one time only.

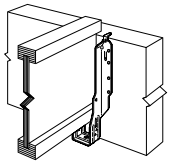


3. Attach hanger to header, acute angle first. Install nails at an angle.

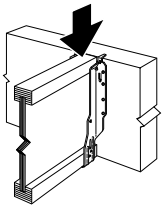
IUS Installation Sequence



STEP 1
Attach the IUS to the header



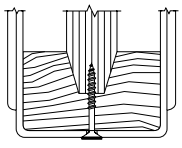
STEP 2
Slide the I-joist into the IUS until it rests above the large tear drop.



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

LF/LT Screw Installation

Use 8 gauge (0.164" diameter) x 1¼ wood screw (#8x1¼") to secure joist to hanger. To avoid stripping of the bottom chord screw hole, DO NOT over tighten screw. Use specified screw to seat joist into hanger (required only for LF and LT hangers).



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

 • P.O. Box 10789, Pleasanton, CA 94588

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