CONNECTOR SELECTION GUIDE FOR RESIDENTIAL CONSTRUCTION

FOR USE WITH PRODUCTS MANUFACTURED BY:

PINK WOOD







DISTRIBUTED BY:



SIMPSON Strong-Tie

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.



(800) 999-5099 strongtie.com

CSG-PINKWDCAN17 5/17 exp. 12/19

SINGLE I-JOISTS – Canadian / Factored Resistance (Ib.)



Joist		Sna	p-In Fac	e-Mount H	anger			Face-Mount Hanger												
Height	Model	B Dim	Fast		Uplift K,	Downloa		B Dim	Faste	Fastener Type		Dow	۱load ⁸	Model	B Dim	Fast	tener Type	Uplift K,	Dowi	nload ⁸
(in.)		(in.)	Header	Joist	= 1.15	D-Fir S-I	P-F	(in.)	Header	Joist	= 1.15	D-Fir	S-P-F	wouer	(in.)	Header	Joist	= 1.15	D-Fir	S-P-F
PKI 1	PKI 10, 20, 23 Joist Width = 2½"																			
9 1⁄2	LT259	2	(6) 10d	(1)#8x1¼" WS	105	2625 17	25 IUS2.56/9.5	2	(8) 10d	—	175	2385	1690	LF259	2	(10) 10d	(1)#8x1¼"WS	105	2525	2155
111/8	LT251188	2	(6) 10d	(1)#8x1¼" WS	105	2625 17	25 IUS2.56/11.88	2	(10) 10d	—	175	2565	1820	LF2511	2	(12) 10d	(1)#8x11/4"WS	105	2880	2270
14	LT2514	2	(6) 10d	(1)#8x1¼" WS	105	2625 17	25 IUS2.56/14	2	(12) 10d	—	175	2565	1820	LF2514	2	(14) 10d	(1)#8x11/4" WS	105	3235	2385
16	LT2516	2	(6) 10d	(1)#8x1¼" WS	105	2625 17	25 IUS2.56/16	2	(14) 10d	—	175	2725	1935	MIU2.56/16	21⁄2	(24) 16d	(2) 10dx11/2"	375	4930	3485
PKI	35Plus, 40, 50							Jo	ist Widtl	1 = 3½"										
9½	LT359	2	(6) 10d	(1)#8x1¼" WS	105	2415 17	25 IUS3.56/9.5	2	(10) 10d	—	175	2415	1685	LF359	2	(10) 10d	(2) #8x11/4" WS	105	2415	2155
1117/8	LT351188	2	(6) 10d	(1)#8x1¼" WS	105	2415 17	25 IUS3.56/11.88	2	(12) 10d	—	175	2415	1685	LF3511	2	(12) 10d	(2) #8x11/4" WS	105	2415	2270
14	LT3514	2	(6) 10d	(1)#8x1¼" WS	105	2415 17	25 IUS3.56/14	2	(12) 10d	—	175	2415	1685	LF3514	2	(14) 10d	(2) #8x11/4" WS	105	2415	2385
16	LT3516	2	(6) 10d	(1)#8x1¼" WS	105	2415 17	25 IUS3.56/16	2	(14) 10d	—	175	2415	1685	MIU3.56/16	21⁄2	(24) 16d	(2) 10dx1½"	375	2745	2745
18	MIT418	21⁄2	(8) 16d	(2) 10dx11/2"	375	2745 24	20 See cu	rrent	t Canadia	n Limit Sta	ites catal	ogue		MIU3.56/18	21⁄2	(26) 16d	(2) 10dx1½"	375	2745	2745
20	MIT420	21/2	(8) 16d	(2) 10dx1½"	375	2745 24	20		for han	ger selectio	n			MIU3.56/20	21⁄2	(28) 16d	(2) 10dx1½"	375	2745	2745

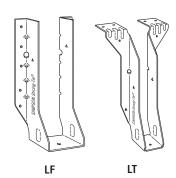
Joist			4	5° Skew						Adjust	able Height	t			Field Slope and Skew								
Height	Model	B Dim	Fastener Type		Uplift K	Download ⁸		Model	B Dim	Faste	ener Type	Uplift K	Dow	nload ⁸	Model	B Dim	Fast	ener Type	Uplift K	Down	load ⁸		
(in.)	WOUEI	(in.)	Header	Joist	= 1.15	D-Fir	S-P-F	Wouer	(in.)	Header	Joist	= 1.15	D-Fir	S-P-F	IVIOUEI	(in.)	Header	Joist	= 1.15	D-Fir	S-P-F		
PKI	10, 20, 23								Joi	st Widtl	1 = 2 ½"												
91⁄2	SUR/L2.56/9	33/16	(14)16d	(2) 10dx11/2"	385	3950	2805	THAI322	21⁄4	(6) 10d	(2) 10dx11/2"	—	3000	2385	LSSUH310	3½	(14) 16d	(12)10dx1½"	1155	2345	1665		
117⁄8	SUR/L2.56/11	33⁄16	(16) 16d	(2) 10dx11/2"	385	3950	2805	THAI322	21⁄4	(6) 10d	(2) 10dx11/2"	—	3000	2385	LSSUH310	3½	(14) 16d	(12)10dx1½"	1155	2345	1665		
14	SUR/L2.56/14	33/16	(18) 16d	(2) 10dx11/2"	385	3950	2805	THAI322	21⁄4	(6) 10d	(2) 10dx11/2"	_	3000	2385	LSSUH310	3½	(14) 16d	(12)10dx1½"	1155	2345	1665		
16	SUR/L2.56/14	33⁄16	(18) 16d	(2) 10dx1½"	385	3950	2805	See current Canadian Limit States catalogue for hanger selection							See current Canadian Limit States catalogue for hanger selection								
PKI	35Plus, 40, 50								Joi	st Widt	1 = 3½"												
91⁄2	SUR/L410	33/16	(14)16d	(6) 16d	1695	4065	2875	THAI422	21⁄4	(6) 10d	(2) 10dx11/2"	—	3000	2385	LSSU410	3½	(14) 16d	(12)10dx1½"	1155	2345	1665		
117⁄8	SUR/L410	33/16	(14)16d	(6) 16d	1695	4065	2875	THAI422	21⁄4	(6) 10d	(2) 10dx11/2"	—	3000	2385	LSSU410	3½	(14) 16d	(12)10dx1½"	1155	2345	1665		
14	SUR/L414	33/16	(18) 16d	(8) 16d	2265	4095	2895	THAI422	21⁄4	(6) 10d	(2) 10dx11/2"	—	3000	2385	LSSU410	3½	(14) 16d	(12)10dx1½"	1155	2345	1665		
16	SUR/L414	33/16	(18) 16d	(8) 16d	2265	4095	2895	THAI422	21⁄4	(6) 10d	(2) 10dx11/2"	—	3000	2385	LSSU410	3½	(14) 16d	(12)10dx1½"	1155	2345	1665		
18	See cu	rren	t Canadi	an Limit Stat	es catalo	gue		See cu	See current Canadian Limit States catalogue								See current Canadian Limit States catalogue						
20			for han	ger selection	l				ger selectio	for hanger selection													

1. See General Notes on page 4.

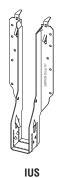
 Shaded hangers require web stiffeners at joist ends. Web stiffeners may be required for non-shaded hangers by others.

3. The B Dim is the length of the hanger seat.

4. THAI hangers require a minimum of 4 top and 2 face nails installed.



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



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

ΜΙΤ



 \mathbf{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 (Ib.)

	Strong-Tie
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Joist			Top-F	lange Hange					Face-N	/lount Hang	er			45° Skew							
Height	Model	B Dim	Fast	ener Type	Uplift K	Dow	nload ⁸	Model	B Dim	Fastener Type		Uplift K	Dowi	nload ⁸	Model	B Dim	Faste	ener Type	Uplift K _r	Dowr	nload ⁸
(in.)	WOUCI		Header Joist = 1.1	= 1.15	D-Fir	S-P-F	F (in.	(in.)	Header	Joist	= 1.15	D-Fir	S-P-F		(in.)	Header	Joist	= 1.15	D-Fir	S-P-F	
PKI 1	PKI 10, 20, 23 Joist Width = 5"																				
91⁄2	MIT39.5-2	21⁄2	(8) 16d	(2)10dx11/2"	375	3490	2420	MIU5.12/9	21⁄2	(16) 16d	(2)10dx11/2"	375	4550	3230	HSUR/L5.12/9	2 13⁄16	(12) 16d	(2)10dx11/2"	195	2995	2350
111/8	MIT311.88-2	21⁄2	(8) 16d	(2)10dx11/2"	375	3490	2420	MIU5.12/11	21⁄2	(20) 16d	(2)10dx11/2"	375	4550	3230	HSUR/L5.12/11	213⁄16	(16) 16d	(2)10dx11/2"	195	4190	2965
14	MIT314-2	21⁄2	(8) 16d	(2)10dx11/2"	375	3490	2420	MIU5.12/14	21/2	(22) 16d	(2)10dx11/2"	375	4930	3485	HSUR/L5.12/14	213⁄16	(20) 16d	(2)10dx11/2"	195	4190	2965
16	MIT5.12/16	21⁄2	(8) 16d	(2)10dx11/2"	375	3490	2420	MIU5.12/16	21⁄2	(24) 16d	(2)10dx11/2"	375	4930	3485	HSUR/L5.12/16	213⁄16	(24) 16d	(2)10dx11/2"	195	4190	2965
PKI 3	5Plus, 40, 50									J	oist Width =	7"									
9½	B7.12/9.5	21⁄2	(14) 16d	(6) 16d	1650	5940	3910	HU410-2	21⁄2	(18) 16d	(8) 16d	2280	5780	4690	HU410-2X7	21⁄2	(18) 16d	(8) 16d	1710	3755	3050
111/8	B7.12/11.88	21⁄2	(14) 16d	(6) 16d	1650	5940	3910	HU412-2	21⁄2	(22) 16d	(8) 16d	2280	5780	4690	HU412-2X7	21⁄2	(22) 16d	(8) 16d	1710	3755	3050
14	B7.12/14	21⁄2	(14) 16d	(6) 16d	1650	5940	3910	HU414-2	21⁄2	(26) 16d	(12) 16d	3420	7025	5780	HU414-2X7	21⁄2	(26) 16d	(12) 16d	2565	4565	3755
16	B7.12/16	21⁄2	(14) 16d	(6) 16d	1650	5940	3910	HU414-2	21⁄2	(26) 16d	(12) 16d	3420	7025	5780	HU414-2X7	21⁄2	(26) 16d	(12) 16d	2565	4565	3755
18	B7.12/18	21⁄2	(14) 16d	(6) 16d	1650	5940	3910	See ci	nt Canad	ian Limit Sta	ates cata	ogue		See current Canadian Limit States catalogue							
20	B7.12/20	21⁄2	(14) 16d	(6) 16d	1650	5940	3910			for har	nger selectio	n	-		for hanger selection						

Joist		Adju	stable Heigh	t				Field S	lope and SI	œw			Joist _		Variable Pitch				
Height (in.)	Model	B Dim (in.)Header	tener Type Joist	Uplift K _D = 1.15		nload ⁸ S-P-F	Model	B Dim (in.)	Faste Header	ener Type Joist	Uplift K = 1.15			Height (in.)		B Fas Dim (in.) Head		Uplift K = 1.15	Download ⁸ D-Fir S-P-F
PKI 1	0, 20, 23				J	oist W	idth = 5"							PKI 10,	20, 23		Joist Width	= 21/2"	
91⁄2	THAI-2 ⁵	21/4 (6) 10d	(2) 10dx11/2"	_	2800	2800	LSU5.126	3½	(24) 16d	(16) 10dx11/2	910	2600	1845	All VI	PA3	2 (9) 10)d (2)10dx1½	370	2050 1855
117⁄8	THAI-2⁵	21/4 (6) 10d	(2) 10dx11/2"	—	2800	2800	LSU5.126	3½	(24) 16d	(16) 10dx11/2	910	2600	1845	PKI 35P	lus, 40,	50	Joist Width :	= 31⁄2"	
14	THAI-2⁵	21/4 (6) 10d	(2) 10dx11/2"	—	2800	2800	LSU5.126	3½	(24) 16d	(16) 10dx11/2	910	2600	1845	All VI	PA4	2 (9) 10)d (2)10dx1½	370	2050 1855
16	See o		dian Limit Sta Inger selectio		ogue		See o		ian Limit St 1ger selecti		llogue		VDA	∩ \ F₂ (?)	l	VPA – 18 g	gauge		
PKI 3	5Plus, 40, 50				J	oist W	idth = 7"							VPA		5	This variab	ole pitch	connector
91⁄2										IF N		allows a sl							
117⁄8	117/8													John Store	AN NA				out having
14	See o		dian Limit Sta Inger selectio		ogue		See o	See current Canadian Limit States catalogue for hanger selection									,		th, bevel or wides uplift

1. See General Notes on page 4.

16

18

20

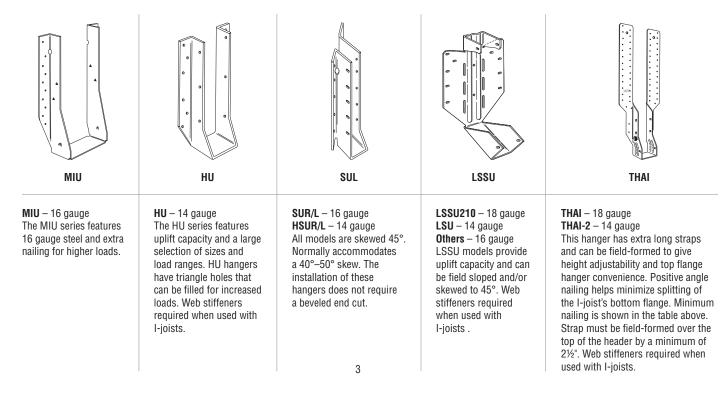
2. Shaded hangers require web stiffeners at joist ends. Web stiffeners may also be required for non-shaded areas by the joist manufacturer. The B Dim is the length of the hanger seat. 3.

- THAI hangers must require a minimum of 4 top and 2 face nails installed.
- THAI-2 must be special ordered. Specify width between 3¹/₈" and 5⁵/₁₆".
- 6. LSUs are not field skewable. (Field-slope only.) Skewed option must be
- special ordered; specify skew angle. 7. HU skewed option must be special ordered. Specify skew angle and
- direction (e.g. HU414-2X R45°) Connection capacity is the lower of the tabulated hanger capacity or the 8.
- I-joist bearing end reaction limit as published by the manufacturer (either with or without web stiffeners.)

nnn

capacity. Adjustable from

3:12 to 12:12 pitch.





General Notes

- 1. See current Wood Construction Connectors catalogue for Important Information and General Notes section and for hanger models, joist sizes and support conditions not shown. See pages below for installation information.
- 2. Unless otherwise noted, factored resistances 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, SPF, LVL and LSL. Joist or beam reactions should be checked by a qualified designer to ensure proper hanger selection. See below for I-joist headers.
- 3. Factored uplift resistances assume SPF flanges and 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. The top flange of an I-joist must be laterally supported to prevent rotation; see Prevent Rotation below.

- 5. For top flange hangers, configuration and thickness of hanger top flange need to be considered for flush framing conditions.
- For this publication, support members are assumed to be at least $5\frac{1}{2}$ " tall. 6. 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 134" for 10d or 2 inches for 16d; nails are clinched.
- 7. THAI hangers shown in the single and double I-joist tables are based on the "top flange" installation and require that the carrying member have a horizontal thickness of at least $2\frac{1}{2}$ ". Install 4 top nails and 2 face nails. THAI hangers are not rated for uplift.
- All nails shown are common wire nails unless otherwise noted. 8. 0.162" dia. x 3½" long 0.148" dia. x 3" long 16d = 10d -

Face Mount

10d x 11/2" = 0.148" dia. x 11/2" long

Factored Resistance Hangers

on I-Joist Headers (lb.)

Model

LT

MIT

I BV

BA

I-Joist Header

Flange Material

SPF

1695

1900

2200

2420

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 10d x 11/2" 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 134" wide horizontally but at least 11/2" wide, apply a reduction factor of 0.77 to all table values.





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

IUS Installation Sequence

STEP 1

Attach the IUS

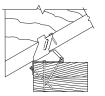
to the header



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.

LF/LT Screw Installation

Use 8 gauge (0.164" diameter) x 11/4" wood screw (#8 x 11/4") 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.

STEP 2 Slide the I-joist into the IUS until

it rests above the

large tear drop.

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STEP 3

the IUS.

Firmly push or

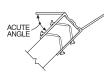
snap I-joist fully into the seat of

BACKER BACKER BLOCK BLOCH EACH SIDE **Top Flange**

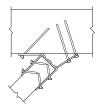
LSSU Installation



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.

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